

Comprehensive T_EX Archive Network UI Design

Version 3.0

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The Comprehensive T_EX Archive Network (CTAN) is the major repository for the T_EX world. CTAN provides access via the Web. This site has needed a relaunch. This document describes the consideration on the relaunch of the Web site for CTAN and how it is supposed to look and work.



O 2012–2025 The CTAN team and individual authors listed below

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Contents

1.1Personas1.2User stories1.3Epics1.4Acceptance criteria1.5Class diagrams2Design principles2.1Responsive Design2.2Colors2.3Links2.4Light and Dark Themes2.4.1Selecting a theme2.5Fonts2.6.1Dashes2.6.2Quotation marks2.6.3Capitalisation2.7T _E X Logos2.7.1Logos everywhere2.7.2Settings for logos2.7.3Cut and paste of logos2.8.1Settings for icons2.8.2Icons for cards2.8.3Icons for cards2.8.4Icons for tabs2.8.5Icons for attribute values2.8.8Icons for tabit	1	Int	roductio	on	10
1.2User stories1.3Epics1.4Acceptance criteria1.5Class diagrams 2 Design principles2.1Responsive Design2.2Colors2.3Links2.4Light and Dark Themes2.4.1Selecting a theme2.5Fonts2.5.1Font family2.5.2Font shape2.6Typography2.6.1Dashes2.6.2Quotation marks2.6.3Capitalisation2.7T _E X Logos2.7.1Logos everywhere2.7.2Settings for logos2.7.3Cut and paste of logos2.8.1Settings for icons2.8.2Icons for cards2.8.3Icons for cards2.8.4Icons for cards2.8.5Icons for attribute of entities2.8.6Icons for attribute values2.8.7Icons for thots2.8.8Icons for buttons2.8.9Icons for files		1.1	Pers	onas	10
1.3Epics1.4Acceptance criteria1.5Class diagrams2Design principles2.1Responsive Design2.2Colors2.3Links2.4Light and Dark Themes2.5Fonts2.5.1Font family2.5.2Font shape2.6.1Dashes2.6.2Quotation marks2.6.3Capitalisation2.7TEX Logos2.7.1Logo servywhere2.7.2Settings for logos2.7.3Cut and paste of logos2.8.1Settings for icons2.8.2Icons for ards2.8.4Icons for ards2.8.5Icons for attributes of entities2.8.4Icons for attributes of entities2.8.5Icons for files		1.2	User	stories	13
1.4Acceptance criteria1.5Class diagrams2Design principles2.1Responsive Design2.2Colors2.3Links2.4Light and Dark Themes2.4.1Selecting a theme2.5Fonts2.5.1Font family2.5.2Font shape2.6.1Dashes2.6.2Quotation marks2.6.3Capitalisation2.7TEX Logos2.7.1Logos everywhere2.7.2Settings for logos2.7.3Cut and paste of logos2.8.1Settings for icons2.8.2Icons for cards2.8.3Icons for cards2.8.4Icons for tabs2.8.5Icons for attributes of entities2.8.6Icons for attributes of entities2.8.7Icons for files		1.3	Epic	25	14
1.5Class diagrams2Design principles2.1Responsive Design2.2Colors2.3Links2.4Light and Dark Themes2.4.1Selecting a theme2.5Fonts2.5.1Font family2.5.2Font shape2.6Typography2.6.1Dashes2.6.2Quotation marks2.6.3Capitalisation2.7TEX Logos2.7.1Logo severywhere2.7.2Settings for logos2.7.3Cut and paste of logos2.8.1Settings for icons2.8.2Icons for pages2.8.3Icons for atribute sol2.8.4Icons for attribute sol2.8.7Icons for attribute values2.8.8Icons for buttons2.8.9Icons for files		1.4	Acce	eptance criteria	14
2Design principles2.1Responsive Design2.2Colors2.3Links2.4Light and Dark Themes2.4.1Selecting a theme2.5Fonts2.5.1Font family2.5.2Font shape2.6Typography2.6.1Dashes2.6.2Quotation marks2.6.3Capitalisation2.7T _E X Logos2.7.1Logos everywhere2.7.2Settings for logos2.7.3Cut and paste of logos2.8Icons2.8.4Icons for cards2.8.5Icons for cards2.8.6Icons for attributes of entities2.8.7Icons for buttons2.8.9Icons for files		1.5	Clas	s diagrams	14
2.1Responsive Design2.2Colors2.3Links2.4Light and Dark Themes2.4.1Selecting a theme2.5Fonts2.5.1Font family2.5.2Font shape2.6Typography2.6.1Dashes2.6.2Quotation marks2.6.3Capitalisation2.7TEX Logos2.7.1Logos everywhere2.7.2Settings for logos2.7.3Cut and paste of logos2.8.1Settings for icons2.8.2Icons for cards2.8.3Icons for cards2.8.4Icons for tabs2.8.5Icons for attributes of entities2.8.6Icons for attribute values2.8.7Icons for buttons2.8.8Icons for buttons2.8.9Icons for files	2	De	sign prii	nciples	16
2.2Colors2.3Links2.4Light and Dark Themes2.4.1Selecting a theme2.5Fonts2.5.1Font family2.5.2Font shape2.6Typography2.6.1Dashes2.6.2Quotation marks2.6.3Capitalisation2.7TFX Logos2.7.1Logos everywhere2.7.2Settings for logos2.7.3Cut and paste of logos2.8.1Settings for icons2.8.2Icons for pages2.8.3Icons for cards2.8.4Icons for tabs2.8.5Icons for attributes of entities2.8.6Icons for attributes of entities2.8.7Icons for buttons2.8.8Icons for buttons2.8.9Icons for files		2.1	Resp	ponsive Design	16
2.3Links2.4Light and Dark Themes2.4.1Selecting a theme2.5Fonts2.5.1Font family2.5.2Font shape2.6Typography2.6.1Dashes2.6.2Quotation marks2.6.3Capitalisation2.7TEX Logos2.7.1Logos everywhere2.7.2Settings for logos2.7.3Cut and paste of logos2.8Icons2.8.1Settings for icons2.8.2Icons for pages2.8.3Icons for cards2.8.4Icons for tabs2.8.5Icons for attributes of entities2.8.6Icons for attributes of entities2.8.7Icons for buttons2.8.8Icons for buttons2.8.9Icons for files		2.2	Colo)rs	17
2.4 Light and Dark Themes 2.4.1 Selecting a theme 2.5 Fonts 2.5.1 Font family 2.5.2 Font shape 2.6 Typography 2.6.1 Dashes 2.6.2 Quotation marks 2.6.3 Capitalisation 2.7 TEX Logos 2.7.1 Logos everywhere 2.7.2 Settings for logos 2.7.3 Cut and paste of logos 2.8.1 Settings for icons 2.8.2 Icons for pages 2.8.3 Icons for cards 2.8.4 Icons for tabs 2.8.5 Icons for attributes of entities 2.8.6 Icons for attribute values 2.8.7 Icons for the sufficient of entities 2.8.8 Icons for the sufficient of entities 2.8.9 Icons for files		2.3	Link	ß	17
2.4.1Selecting a theme2.5Fonts2.5.1Font family2.5.2Font shape2.6Typography2.6.1Dashes2.6.2Quotation marks2.6.3Capitalisation2.7TEX Logos2.7.1Logos everywhere2.7.2Settings for logos2.7.3Cut and paste of logos2.8Icons2.8.1Settings for icons2.8.2Icons for pages2.8.3Icons for cards2.8.4Icons for tabs2.8.5Icons for attributes of entities2.8.6Icons for attribute values2.8.7Icons for buttons2.8.8Icons for buttons2.8.9Icons for files		2.4	Ligh	t and Dark Themes	18
2.5Fonts2.5.1Font family2.5.2Font shape2.6Typography2.6.1Dashes2.6.2Quotation marks2.6.3Capitalisation2.7TEX Logos2.7.1Logos everywhere2.7.2Settings for logos2.7.3Cut and paste of logos2.8.1Settings for icons2.8.2Icons for pages2.8.3Icons for cards2.8.4Icons for cards2.8.5Icons for entities2.8.6Icons for attributes of entities2.8.7Icons for buttons2.8.9Icons for files			2.4.1	Selecting a theme	20
2.5.1Font family2.5.2Font shape2.6Typography2.6.1Dashes2.6.2Quotation marks2.6.3Capitalisation2.7TEX Logos2.7.1Logos everywhere2.7.2Settings for logos2.7.3Cut and paste of logos2.8Icons2.8.1Settings for icons2.8.2Icons for pages2.8.3Icons for cards2.8.4Icons for tabs2.8.5Icons for attributes of entities2.8.6Icons for attribute values2.8.7Icons for files2.8.9Icons for files		2.5	Font	ts	21
2.5.2Font shape2.6Typography2.6.1Dashes2.6.2Quotation marks2.6.3Capitalisation2.7TEX Logos2.7.1Logos everywhere2.7.2Settings for logos2.7.3Cut and paste of logos2.8Icons2.8.1Settings for icons2.8.2Icons for pages2.8.3Icons for cards2.8.4Icons for entities2.8.5Icons for entities2.8.6Icons for attributes of entities2.8.7Icons for buttons2.8.8Icons for files			2.5.1	Font family	21
2.6Typography2.6.1Dashes2.6.2Quotation marks2.6.3Capitalisation2.7TEX Logos2.7.1Logos everywhere2.7.2Settings for logos2.7.3Cut and paste of logos2.8Icons2.8.1Settings for icons2.8.2Icons for pages2.8.3Icons for cards2.8.4Icons for entities2.8.5Icons for entities2.8.6Icons for attributes of entities2.8.7Icons for buttons2.8.8Icons for buttons2.8.9Icons for files			2.5.2	Font shape	22
2.6.1Dashes2.6.2Quotation marks2.6.3Capitalisation2.7T _E X Logos2.7.1Logos everywhere2.7.2Settings for logos2.7.3Cut and paste of logos2.8Icons2.8.1Settings for icons2.8.2Icons for pages2.8.3Icons for cards2.8.4Icons for entities2.8.5Icons for entities2.8.6Icons for attributes of entities2.8.7Icons for buttons2.8.8Icons for buttons2.8.9Icons for files		2.6	Тур	ography	22
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			2.6.1	Dashes	23
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			2.6.2	Quotation marks	23
2.7 $T_EX Logos$ 2.7.1Logos everywhere2.7.2Settings for logos2.7.3Cut and paste of logos2.8Icons2.8.1Settings for icons2.8.2Icons for pages2.8.3Icons for cards2.8.4Icons for tabs2.8.5Icons for entities2.8.6Icons for attributes of entities2.8.7Icons for buttons2.8.8Icons for files			2.6.3	Capitalisation	23
2.7.1Logos everywhere2.7.2Settings for logos2.7.3Cut and paste of logos2.7.3Cut and paste of logos2.8Icons2.8.1Settings for icons2.8.2Icons for pages2.8.3Icons for cards2.8.4Icons for tabs2.8.5Icons for entities2.8.6Icons for attributes of entities2.8.7Icons for buttons2.8.8Icons for files		2.7	T _E X	Logos	24
2.7.2 Settings for logos 2.7.3 Cut and paste of logos 2.8 Icons 2.8.1 Settings for icons 2.8.2 Icons for pages 2.8.3 Icons for cards 2.8.4 Icons for tabs 2.8.5 Icons for entities 2.8.6 Icons for attributes of entities 2.8.7 Icons for buttons 2.8.8 Icons for files			$2.7.1^{$	Logos everywhere	24
2.7.3 Cut and paste of logos 2.8 Icons 2.8.1 Settings for icons 2.8.2 Icons for pages 2.8.3 Icons for cards 2.8.4 Icons for tabs 2.8.5 Icons for entities 2.8.6 Icons for attributes of entities 2.8.7 Icons for buttons 2.8.8 Icons for files			2.7.2	Settings for logos	25
2.8 Icons 2.8.1 Settings for icons 2.8.2 Icons for pages 2.8.3 Icons for cards 2.8.4 Icons for tabs 2.8.5 Icons for entities 2.8.6 Icons for attributes of entities 2.8.7 Icons for buttons 2.8.8 Icons for files			2.7.3	Cut and paste of logos	26
2.8.1Settings for icons2.8.2Icons for pages2.8.3Icons for cards2.8.4Icons for tabs2.8.5Icons for entities2.8.6Icons for attributes of entities2.8.7Icons for attribute values2.8.8Icons for buttons2.8.9Icons for files		2.8	Icon	s	27
2.8.2Icons for pages2.8.3Icons for cards2.8.4Icons for tabs2.8.5Icons for entities2.8.6Icons for attributes of entities2.8.7Icons for attribute values2.8.8Icons for buttons2.8.9Icons for files			2.8.1	Settings for icons	27
2.8.3 Icons for cards 2.8.4 Icons for tabs 2.8.5 Icons for entities 2.8.6 Icons for attributes of entities 2.8.7 Icons for attribute values 2.8.8 Icons for files			2.8.2	Icons for pages	29
2.8.4 Icons for tabs 2.8.5 Icons for entities 2.8.6 Icons for attributes of entities 2.8.7 Icons for attribute values 2.8.8 Icons for buttons 2.8.9 Icons for files			2.8.3	Icons for cards	31
2.8.5 Icons for entities 2.8.6 Icons for attributes of entities 2.8.7 Icons for attribute values 2.8.8 Icons for buttons 2.8.9 Icons for files			2.8.4	Icons for tabs	32
2.8.6 Icons for attributes of entities 2.8.7 Icons for attribute values 2.8.8 Icons for buttons 2.8.9 Icons for files			2.8.5	Icons for entities	33
2.8.7 Icons for attribute values 2.8.8 Icons for buttons 2.8.9 Icons for files			2.8.6	Icons for attributes of entities	33
2.8.8 Icons for buttons Icons for buttons 2.8.9 Icons for files Icons for files			2.8.7	Icons for attribute values	37
2.8.9 Icons for files			2.8.8	Icons for buttons	38
			2.8.9	Icons for files	40
2.9 Tool tips and hints		2.9	Tool	l tips and hints	44
2.10 Use of images		2.10) Use	of images	44
2.10.1 Settings for images			2.10.1	Settings for images	45
2.11 Picture credits		2.11	Pict	ure credits	46

	2.12 URLs	47
	2.13 The page layout	47
	2.13.1 Tool bar	48
	2.13.2 Footer	58
	2.13.3 Left navigation bar	59
	2.13.4 Content	63
	2.13.5 Page title	63
	2.13.6 Page icon	63
	2.14 The card metaphor	63
	2.14.1 The card metaphor for dialogues	65
	2.14.2 The card metaphor for tables $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$	65
	2.15 Infinite scrolling	67
	2.16 Messages of the day \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots	67
	2.17 The error page layout	69
	2.17.1 Page not found	69
	2.17.2 Internal server error	70
	2.17.3 Maintenance down-time	70
	2.17.4 Server not reachable	73
	2.18 Configurability by features	74
3	118n: Internationalisation	77
	3.1 Selecting a language	78
Л	A11V. Accessibility	20
4	A11 Parceivable	90 80
	$4.1 \qquad \text{Operable} $	86
	4.3 Understandable	89
	4.4 Robust	91
		01
5	The cover page	93
	5.1 The title tile \ldots	95
	5.2 The $T_E X$ tile	96
	5.3 The CTAN-ann tile	97
	5.4 The upload tile	99
	5.5 The DVD tile	00
	5.6 The distributions tile \ldots 10	01
	5.7 The statistics tile	03
	5.8 The "Did you know" tile $\ldots \ldots \ldots$	04
	5.9 The 'Wanted' tile \ldots 1	06
6	The Catalogue browse page 1	07
		~~
7	The tex-archive page 1	UY
7	The tex-archive page 1 7.1 The listing 1	09 09

	7.2 T	he "files" tab
	7.3 T	he "readme" tab \ldots
	7.4 T	he "package" tab
	7.5 T	he "download" tab
8	The pac	kages 116
	8.1 T	he package data
	8.1.1	The class Package
	8.1.2	The class PackageCopyright
	8.1.3	The class PackageCaption
	8.1.4	The class PackageDescription
	8.1.5	The class PackageDoc
	8.1.6	The class UploaderRef
	8.1.7	The class PackageAlias
	8.2 T	he package ratings data
	8.2.1	The class Rating $\ldots \ldots 120$
	8.3 T	he packages list page
	8.4 T	he package page
	8.4.1	The abstract tab $\ldots \ldots 124$
	8.4.2	The summary tab $\ldots \ldots 125$
	8.4.3	The documentation tab $\ldots \ldots 126$
	8.4.4	The announcements tab
	8.4.5	The ratings tab $\ldots \ldots 129$
	8.4.6	The install tab $\ldots \ldots 131$
	8.4.7	The reference tab $\ldots \ldots 132$
9	The cor	tributors 134
	9.1 Т	he contributors data
	9.1.1	The class Author
	9.1.2	The enumeration Gender
	9.1.3	The enumeration NameFormat
	9.1.4	The class AuthorEmail
	9.1.5	The class AuthorRef
	9.2 T	he contributors list page $\ldots \ldots 136$
	9.3 A	contributor page $\ldots \ldots 137$
10	The top	ics 140
	10.1 T	he topics data $\ldots \ldots 140$
	10.1.	1 The class Topic
	10.1.	2 The class TopicDetails
	10.2 T	he topics list page
	10.3 T	he topic page $\ldots \ldots 142$

11	The licenses 1							
	11.1 The licenses data							
	11	.1.1 The class License	145					
	11	.1.2 The class LicenseText	146					
	11	.1.3 The class LicenseIntro	146					
	11.2	The licenses list page	146					
	11.3	A license page	149					
12	Anno	uncements	150					
	12.1	The announcement list	150					
	12.2	The announcement	151					
13	The n	news feeds	154					
	13.1	The RSS feed for ctan-ann	154					
	13.2	The RSS feed for packages	154					
	13.3	The Atom feed for ctan-ann	155					
	13.4	The Atom feed for packages	156					
14	The c	content delivery network	157					
	14.1	The CDN server data	157					
	14	.1.1 The class Mirror	157					
	14	.1.2 The class Country	158					
	14	.1.3 The class Continent	158					
	14	.1.4 The class Contact	158					
	14.2	The CDN dashboard	159					
	14.3	The list of CDN servers page	161					
	14.4	The CDN monitor page	162					
	14.5	Becoming a CDN server	165					
	14.6	The CDN registration page	165					
15	Αссοι	unts	168					
	15.1	The account data	168					
	15	.1.1 The class Account	168					
	15	.1.2 The enumeration Role	169					
	15.2	Register an account	170					
	15.3	Log into an account	171					
	15.4	Log out	173					
	15.5	Reset password	174					
	15.6	Request account name	175					
16	The u	ıser dashboard	177					
	16.1	My data tab	178					
	16.2	Set password dialog	181					
	16.3	Delete an account	182					

	16.4 My packages tab	84
	16.5 My public pages	85
	16.6 My visited pages	87
	16.7 My ratings	90
17	The user's public page 19	93
18	The search page 19	95
	18.1 Search bar	96
	18.1.1 Search sections $\ldots \ldots 19$	97
	18.1.2 Search history	01
	18.2 Search results – hits list	04
	18.3 Search results – no hits	04
	18.4 Search hints	04
19	Upload a package 20	08
	19.1 The uploads data	08
	19.1.1 The class Upload	08
	19.1.2 The class $UploadFile \dots \dots$	09
	19.1.3 The enumeration UploadType	10
	19.2 Start publishing a new package	10
	19.3 The upload process $\ldots \ldots 22$	11
	19.3.1 The hints step in the upload process $\ldots \ldots \ldots \ldots \ldots \ldots 2$	11
	19.3.2 The package step in the upload process $\ldots \ldots \ldots \ldots 2$	13
	19.3.3 The author step in the upload process $\ldots \ldots \ldots \ldots \ldots 2$	14
	19.3.4 The classification step in the upload process $\ldots \ldots \ldots \ldots 2$	15
	19.3.5 The channels step in the upload process $\ldots \ldots \ldots \ldots \ldots 2$	16
	19.3.6 The details step in the upload process $\ldots \ldots \ldots \ldots 2$	17
	19.3.7 The submit step in the upload process $\ldots \ldots \ldots \ldots 2$	17
	19.4 Additional information for uploaders	20
	19.5 Query unprocessed packages	21
20	Online help 22	23
	20.1 The help overview page $\ldots \ldots 22$	23
	20.2 The FAQ page	25
	20.3 The change log overview page $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots 22$	26
	20.4 The change log page $\ldots \ldots 22$	28
	20.5 The lion page $\ldots \ldots 22$	29
21	The TEX user groups 23	31
	21.1 The LUGs data	31
	21.1.1 The class LUG	31
	21.1.2 The class Periodical $\ldots \ldots 23$	33
	21.1.3 The class BankAccount	33

	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	233 233 234
22	The markdown tester	236
23	The contact information 23.1 The contact page 23.2 The contact page	237 237
	23.2 The team page 23.3 The credits page	238 240
24	The privacy page	242
25	The feedback dialogue	244
26	The about page	248
27	The guest book page	250
	27.1Showing the guest book27.2Adding to the guest book	250 251
28	The site map page	254
29	Administration	256
	29.1 Navigation for the admin	256
	29.2 The admin dashboard	257
	29.3 The users CRUD page	259
	29.3.1 The user dialogue	200
	29.4 The users stop words 1	262
	29.4.2 The user stop words dialogue	263
	29.5 The roles CRUD page	264
	29.6 The tickets CRUD page	266
	29.7 The packages CRUD page	268
	29.8 The authors CRUD page	269
	29.9 The topics list	270
	29.10 The licenses CRUD page	271
	29.10.1 The license dialogue	273
	29.11 The messages CRUD page	275
	29.12 The upload record dialogue	270 277
	29.13 The incoming CRUD page	279
	29.14 The guest book CRUD page	279
	29.15 The guest book stop words	280
	29.15.1 The guest book stop words list	282

Contents

Index	293
Bibliography	292
29.18.2 The file info dialogue	287
$29.18.1 The file notes list \dots \dots$	287
29.18 The file notes	287
29.17 The LUGs CRUD page	284
29.16 The votes CRUD page	283
29.15.2 The guest book stop words dialogue	282

1 Introduction

The releases 1 and 2 of the CTAN site date back to 2011/12. They had been based on a server-side rendering approach. The framework Grails on which it was based had been upgraded from version 2 to version 3 many years back. Two attempts have been made to upgrade to the current version. Both of them failed.

Another aspect was the look-and-feel of the site. It was not too bad. Nevertheless it more and more got an ancient smell. The trends in the world of Web apps had approached and left the CTAN site behind. Thus an attempt has been made to recreate the Web site on a new technological base and with some more modern design ideas in mind.

This document describes the CTAN site from a Web user's perspective. Processes and aspects in the back-end are mainly not covered here.

We start with some theoretical background. In this document several best practices for the description of user interfaces are used.

1.1 Personas

We want to analyse who is supposed to work with the CTAN site. These users are described as personas [PER24]. A persona is fictitious character which represents a certain group of users. Thus it is illustrated who is supposed to use the CTAN site and what can be expected about their knowledge and needs.

In the following list we have collected a set of personas. They are meant as a means to guide the development of the CTAN site towards a user centred look-and-feel.

CTAN visitor Chris Voigt

Chris Voigt is a regular visitor of the CTAN site. He is using some T_EX engines and various packages regularly. He is very much interested in typesetting in general. He wants to learn new things in the T_EX world and wants to stay up-to-date with the current development.

He also has some ancient documents which he gathers from colleagues and friends. They sometimes deserve old versions of packages. Thus the current T_EX distributions have trouble to compile some of those documents properly.

Beginner Abel Begger

Abel Begger is an absolute beginner in the T_EX world. He is studying mathematics and has heard of T_EX at the university. He is impressed about the high-quality appearance of math formulae and the ease to produce them. He wants to give it a try to produce nice looking homework papers with lots of math.

He tries to use the long times on the train to learn. Among others he reads on the CTAN site. For this purpose he utilises the browser on his mobile.

TEX user Theodora Usher

Theodora Usher uses $plainT_EX$ occasionally. She got in touch with T_EX at the university and immediately liked the quality of output and the philosophy behind. She is working in industry now. Here she has a job as professional programmer. In this context she produces T_EX documents whenever she is allowed to. She has collected some packages which she uses regularly.

She is working in the T_EX world for a long time. At the beginning she was used to the ASCII variations of the logs. She still likes them best.







Experienced TEX user Emma Taylor

Emma Taylor is an experienced user of plain T_EX . She is working at a research institute as secretary. In this context she is used to prepare scientific papers for proceedings and letters for the daily correspondence.

She uses T_EX and the CTAN site via a Linux compute server. On her desk she has a workstation with a medium display.

Emma is American and has English as native language.

LETEX user Leo Urbanski

Leo Urbanski is a casual user of $\mathbb{L}^{A}T_{E}X$. He is writing scientific papers with chemical formulae and drawings of molecules. He uses $\mathbb{L}^{A}T_{E}X$ and the CTAN site on a Windows workstation with two large displays.

Leo is Austrian and has German as native language.

Experienced LATEX user Ellie Larch

Ellie Larch is an experienced IAT_EX user. She is working as an assistant professor at the university. Here she writes her scientific papers and letter correspondence with IAT_EX . For this purpose she has some preferred packages. She keeps an eye on the development of these packages to acquire new features which could support her daily work.

Ellie likes typography and typographic gimmicks. Especially she is font of the appearance of the styles $T_{E}X$ logos.

Package author Peter Aumich

Peter Aumich is the author of several packages. He updates the packages from time to time and uploads them to CTAN in order to get them into the T_{FX} distributions.

He is using $ConT_EXt$ since many years and he began to publish his packages a long time ago, first via his Web site and then via CTAN.









Web master Waclaw Munn

Waclaw Munn is the Web master and system administrator of the CTAN site. He is active as volunteer for CTAN. In his daily activity he answers questions of users. For this purpose it is sometimes necessary to investigate how users, authors, packages etc in CTAN are defined. It is also possible that he needs to adjust settings which can not be altered by ordinary users.

Another job is to have an eye on texts provided by users and eliminate spam.

Upload manager Udo March

Udo March is part of the CTAN team. He is active as volunteer for CTAN. Here he is mainly active as upload manager.

He is working on a notebook. Mainly he is working remote. He is using ssh for this purpose.

For merly he has used $\[AT_EX]$ during his university times during his doctorate. Besides he is using $\[AT_FX]$ in his private life.

Mirror system administrator Michel Simone

Michel Simone is managing a bunch of servers at a university. Some of them are dedicated to the distribution of software – primarily but not only as a service for members of the university.

Some departments are using T_EX and LAT_EX very intensively. Thus he has set up a mirror of CTAN in order to provide easy and fast access to the packages for his users. Now he is starting to provide his servers to the public as an official CTAN mirror.

1.2 User stories

User stories (cf. [USE24]) are a way to describe what a user does with the system. They are written with a certain user type in mind.

The user stories usually start with a short formal statement. This uses the following template:







As "role or persona"

I want "description of the aim"

In order to "description of the motivation"

The user story can be accompanied by explanations. In the context of a Web app a sketch of the appearance is most helpful.

In addition a set of acceptance criteria (see section 1.4) is contained. They can be used to formulate details and make them testable.

1.3 Epics

The user stories (see section 1.2) are organised into larger junks. We can group them such that they usually have something in common. Those groups of user stories or other epics are called epic.

1.4 Acceptance criteria

Acceptance criteria are concrete "test cases" for a user story. They contain premises, actions, and consequences. For the acceptance criteria we use a special syntactical form known as "given-whenthen" scheme.

Given "optional precondition" and "another optional precondition" When "action performed" and "another action" Then "post condition" and "another post condition"

The precondition describe the state without saying how this state has been reached. This part is optional.

The actions describe exactly what the actor does. If the acceptence criterion just describes the static state then this might be omitted.

The post condition describe the state of the system after the actions have been performed. This part is mandatory.

1.5 Class diagrams

For data models the class diagram of UML [RJB04] is used. UML provides standards for many purposes. For instance the class diagrams provide lots of possibilities (e.g. see [UML]). Thus we

have to restrict us to avoid an overwelming variety of notation. Here are some rules on what to do and don't:

- For the data models we use classes and associations.
- Inheritance is used sparingly if any.
- The operation section of classes is empty in general. We are interested in the data and not on methods. Even if we define methods like getters and setters in the implementation, they are not relevant for the data model.
- The attributes are always private.
- The attributes use Java data types:
- String
- Integer
- Long
- Boolean
- Byte
- Date
- Timestamp
- If the data type is followed by

then this indicates an array of the given type.

2 Design principles

The appearance of the release 3 of the CTAN site is to a large degree not random. Many aspects are based on thoughtful considerations. In this chapter we have collected some of them to shed some light on the background.

The appearance of the CTAN site should have a modern appearance. Thus the layout is oriented at the material design principles as defined by Google [MD3]. Nevertheless these are not considered as the absolute truth. The CTAN site tries to show it's own look and feel.

2.1 Responsive Design

Stories

As user of the CTAN site with a large display (Leo Urbanski)

I want to have the site adapted to my own device

In order to avoid frustrations of large borders.

As user of the CTAN site with a mobile phone (Abel Begger)

I want to have the site adapted to my own device

In order to avoid frustrations of scrolling horizontally on any page.

Explanations

The users of a Web app like the CTAN site use a variety of devices and resize their browsers to sizes as it suits them. This ranges from a large desktop to a mobile device.

Thus the CTAN site must support a broad range of sizes. Technically speaking this means that the design implements a responsive design, i.e. the layout adapts to the screen space at hand (see figure 2.1).

Acceptance criteria

1.

missing acceptance criteria



(a) ... on the desktop

Figure 2.1: The cover page on multiple devices

2.2 Colors

Colors are a deliberate item to choose. We use a palette of colors which are based on very few colors which are adapted slightly in various directions.

The base colors are taken from the TFX world. The paperback editions of the TFX Book [Knu86b] and the Metafont Book [Knu86a] are taken for this purpose.

The colors for the themes (cf. section 2.4) are shown in table 2.1.

2.3 Links

Links in the normal text are formatted in accordance with the color scheme.

- Links are normally formatted in primary color.
- Links are normally not underlined
- If the mouse is over the link then the color changes.
- If the mouse is over the link then the link is underlined.
- If the mouse is over the link then an alt text is shown to describe the link further.

The appearance of links can be seen in figure 2.2.

missing text

name	light t	heme	dark theme	
background	$\# \mathrm{FFFFFF}$		#000000	
foreground		#000000		#FFFFFF
surface	# FFFFFF		#1111111	#111111
surface-bright	#FFFFFF		#333333	#333333
surface-light	#E3F2FD	#E3F2FD	#082c63	#082c63
surface-variant	#004D8B	#004D8B	#B5D8FF	#B5D8FF
on-surface-variant	#FFFFFF		#000000	
primary	$\#2196\mathrm{F3}$	$\#2196\mathrm{F3}$	$\#1565\mathrm{C0}$	$\#1565\mathrm{C0}$
primary-2	#004D8B	#004D8B	$\#082\mathrm{C63}$	#082C63
primary-3	$\#1565\mathrm{C0}$	$\#1565\mathrm{C0}$	#B5D8FF	#B5D8FF
primary-light	#E8F5FF	#E8F5FF	#0B3360	#0B3360
secondary	# FF9800	# FF9800	$\#70\mathrm{D}070$	#70D070
secondary-3	#E65100	#E65100	#018786	#018786
error	#D50000	#D50000	#D50000	#D50000
info	#F1B063	#F1B063	#F1B063	#F1B063
success	#00C853	#00C853	#00C853	#00C853
warning	# FFE082	# FFE082	# FFE082	# FFE082

Table 2.1: Color tables for light and dark themes

2.4 Light and Dark Themes

The readability of an app relies on the personal preferences. Some users prefer a light theme, i.e. dark text on a light background. Other users tend to a dark theme, i.e. light text on a dark background (see figure 2.3).

To support many users, the CTAN site supports both, a light and a dark theme. The user can select whatever fits best.

The default is oriented at the previously existing release. Thus the light theme is the default.



Figure 2.2: Links



Figure 2.3: Several themes are at hand



(a) \ldots light

 $(b) \dots dark$

Figure 2.4: Setting the theme to be used

2.4.1 Selecting a theme

Stories

As experienced LATEX user (Ellie Larch)

I want to have a means to switch the appearance of the CTAN site to light *In order to* see the site in my preferred color scheme.

As young user (Abel Begger)

 \boldsymbol{I} want to have a means to switch the appearance of the CTAN site to dark

In order to see the site in my preferred color scheme.

Explanations

The selected theme is a setting which is stored for the current user. It is not even required to be logged-in. The setting is stored in the browser.

Acceptance criteria

2.5 Fonts

2.5.1 Font family

Story

As user of the CTAN site

 ${\it I}$ want to see a unique and clean font throughout the site

In order to make it easy readable.

Explanations

It has turned out that for the base font in a Web application a sans-serif font is preferable. This insight dates back to times when the displays had a low resolution and the fine details like the serifs where often lost.

roman

The quick brown fox jumps over the lazy dog THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG 1234567890

bold

The quick brown fox jumps over the lazy dog THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG 1234567890

italic

The quick brown fox jumps over the lazy dog THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG 1234567890

bold italic

The quick brown fox jumps over the lazy dog THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG 1234567890

Figure 2.5: The Open Sans font

Nevertheless the advantage of sans-serif fonts for persons with debility of sight remain. Thus we have decided to use the font family "Open Sans" for the CTAN site. See figure 2.5.

The material design guidelines [MD3] use the font Roboto instead. The use of Open Sans is a rather pleasant variant of a sans-serif font. It also helps us to give the CTAN site a unique appearance in contrast to other sites using material design.

A positive side effect of Open Sans is that it is Open Source and easily available for the client framework in use.

Acceptance criteria

1.

missing acceptance criteria

2.5.2 Font shape

Story

 \pmb{As} user of the CTAN site

I want to see a unique and clean font shape throughout the site

In order to make it easy readable.

Explanations

The material design guidelines depict caps is several places. Here the CTAN site uses small caps instead. This applies to buttons and head lines of popups.

Acceptance criteria

 Given I am on a regular page of the site. and some text can be seen. Then the font used for this text is a variant of the Open Sans font family.

2.6 Typography

Since we are in the world of typesetting producing good looking pages is essential to us. Thus we follow typographic traditions where possible. It there are different traditions we select one and use it consistently.

2.6.1 Dashes

We take care to use en-dash (-) where appropriate and avoid to use minus as poor replacement. We also avoid the em-dash (-) are used in the traditional American typography.

Dashes are used in different contexts with their own semantics:

dash

The dash separates parts of a sentence. It is placed between words. The en-dash is surrounded by white-space.

range

When you have a range of two values then the en-dash is not surrounded by whitespace. The two values are typeset immediately before and after the en-dash.

minus

The minus is in fact a mathematical symbol. In some fonts it is present as a separate symbol (-). This is not the en-dash.

hyphen

The hyphen is use to combine two words into a single one. The short minus sign (-) is used in these places. It is not separated by white-space. An exception are line breaks. Here the break appears after the hyphen.

The rules just given are identical for (continental) English and German.

2.6.2 Quotation marks

Quotation marks are specific to the culture and the language

English

For English we use the quotation marks 66 (") for start and 99 (") for end. We take care not to use single quote or double quote as replacement.

German

For German we use the quotation marks lower 99 (,,) for start and 66 (") for end. We take care not to use single quote or double quote as replacement.

2.6.3 Capitalisation

Capitalisation means to use upper case letters for the first letter of some words. Capitalisation is mainly seen in section headings. There are some popular variants of capitalisation.

The simple capitalisation just uppercases the first letter - as in normal sentences. The massive capitalisation uses an uppercase letter for any word, with a few exceptions.

The following examples show the variants:

- 1. Simple capitalised text
- 2. Massive Capitalised Text
- 3. Capitalised with Small-Caps

We use simple capitalisation (as shown in 1.) on the CTAN site.

2.7 TEX Logos

The T_EX world has established a tradition to use word logos where some characters are dropped or raised. T_EX itself is the first and most famous example. IAT_EX , $X_{\Xi}T_EX$, $B_{IB}T_EX$, and $ConT_EXt$ are some other examples.

On the CTAN site we want to adopt this tradition. With the help of CSS styling we can emulate the appearance rather closely.

CTAN	Q 💏 : _{GENE}	CTAN	Q 👘 : _{GENE}
T _E X		TEX	
⊙ T _E X	Upload a package	① TeX	± Upload a package
TeX is a typesetting program designed for high-quality composition of material that contains a lot of mathematical and technical expressions. It has been adopted by many authors and publishers who generate technical books and papers. It was created by Professor Donald E Knuth of Stanford University, orginally for preparation of his book series ^{Text} and to Computer Programming [*] , TeX has been made freely available by Don Knuth. From these origins a whole ecosystem of distributions, macro packages, and supporting programs has arisen.	If you have a TgK package and want to devote it to the TgK community then the uplical form helps you to submit it to CTAN. You will indefaulte applantions there: You can provide the necessary informations in a guided way.	TeX is a typesetting program designed for high-quality composition of material that contains a lot of mathematical and technical expressions. It has been adopted by many authors and publishers who generate technical books and papers. It was created by Professor Donald E.Xouth of Stanford University, orginally for preparation of his book series: The Art of Computer Programming'. TeX has been made freely available by Don Kruth. From these origins a whole ecosystem of distributions, macro packages, and supporting programs has artsen.	If you have a TeX package and want to devote it to the TeX community then the upload form helps you to submit it to CTNx You will find dealed explanations there: You can provide the necessary informations in a guided way.
©2025 CTAN TEAM 📧 🔮	ø	©2025 CTAN TEAM 📼 🔮	٥

(a) $T_{\!E\!} X$ logos can be used...

(b) ... or turned off

Figure 2.6: The use of T_EX logos

2.7.1 Logos everywhere

Story

As user of the CTAN site with preferences for graphics (Ellie Larch)
I want to see the T_EX logos on the CTAN Web site
In order to get the pleasant association to the T_EX world.

Explanations

 $T_{\rm E} X$ logos are used consequently in each text which is displayed on the CTAN site. This is shown in figure 2.6.

There are exceptions to this rule:

- In contexts where no HTML is interpreted the logos can not be used.
- In images the use of variants for the $T_E X$ logos are unfeasible.

Acceptance criteria

missing acceptance

2.7.2 Settings for logos

Since not all users may like this idea we provide a personal setting to disable the use of logos.

Story

1.

As user of the CTAN site who prefers text (Theodora Usher)

 ${\it I}$ want to switch to the ASCII version of the $T_{E\!}X$ logos on the CTAN Web site

In order to be not distracted by dropped and raised characters.

Explanations

The settings for users are located in the settings menu in the upper right end of the tool bar. In this menu you can toggle the logo style. This is shown in figure 2.7.

The default for the logo style is "on". This means that the formatted $T_{\rm E}\!X$ logos are shown.

The settings are stored in the browser. Thus they are restricted to the user and even the browser instance. Using another browser on the same or another computer can have different settings.

This also means that the CTAN team has no glue which settings are used by a user.

Acceptance criteria

1.

criteria

missing acceptance criteria



Figure 2.7: The settings menu

2.7.3 Cut and paste of logos

Story

As user (some persona)

I want to cut and paste texts from the Web site with the T_EX logos inserted properly *In order to* be not distracted by dropped and raised characters.

Explanations

When using cut and paste from such a page which contains a T_EX logo then the target application determines what happens. If the target can cope with CSS then the logo appears in its layouted form. Otherwise the pure text form is inserted. This means that TeX is inserted for T_EX .

Acceptance criteria

1.

٩		CTA	IN		LAYOU			CTAN		Losin Menu
55 ▲ ⊲ ©				Stow kons: on	55 4 の 辺				Settings Deutsch English Show images: on Show icons: off	
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	■ traventine) ◆ tex-archive This is the root of the Comprehensive T _k X Archive Network directory tree		Use logo style: on Arimation: normal tộ: Thama: light	* 0 #	tex-archive tex-archive	ensive T _E X Archive Network dire	tory tree	Use logo style: on Animation: normal Theme: light		
ů	Priss © Rino Me biblio bibliography CTAN.sites dviware FILES.byname CISE Institution	graphics help index.html indexing	macros obsolete README.mirrors README.structure README.uploads	 Ltds timestamp uptoad.html usergrps web 	m M	Fitts READ ME biblio bibliography CTAN.sites dviware FILES.byname FILES.last07days fonts	graphics help index.html indexing info install language	macros obsolete README.mirrors README.structure README.uploads support systems	tds timestamp upload.html usergrps web	
	02024 CTAN TEAM ID CONTACT	Parator		④ Asour		02024 CTAN TEAM CONTACT	BUACY			Asour

(a) Page and settings with icons...

(b) ... and without icons

Figure 2.8: The use of icons

2.8 Icons

Icons can give users an additional graphical hint. The text is augmented with a visual glue. Icons should be present at the following elements:

- Titles and sub-titles
- Buttons
- Input fields and input areas
- Tabs

Note that an additional icon can be omitted on a check box.

2.8.1 Settings for icons

Stories

As user of the CTAN site (Theodora Usher)

I want to see pure text on the site without icons

In order to concentrate on the content message and do not waste screen space with graphics.

As user of the CTAN site (Ellie Larch)

I want to see the site decorated with icons

In order to get some graphical glues instead of textual wasteland.



Figure 2.9: The settings menu

Explanations

Some users might find the icons distracting. Those users should be able to turn off the use of icons in their personal settings. The default is that icons are enabled.

The figure 2.9 presents an example of the settings.

Acceptance criteria

- Given The settings for icons are "on". When I open the settings menu and click on "icons" Then the icons indicator switches to "off" and all icons on the page disappear and on following pages no icons are shown.
- Given The settings for icons are "off".
 When I open the settings menu and click on "icons"
 Then the icons indicator switches to "on" and all icons on the page appear and on following pages the icons are shown.

2.8.2 Icons for pages

The pages have a classifying icon each. The icon is used in the page title. It is also shown in buttons or links leading to the respective page. The icons are shown in table 2.2.

Table 2.2: Icons for pages						
Page	Icon					
page.about	()	mdi-information-outline				
page.account	-	mdi-account				
page.admin.catalogue	Ш	mdi-library-shelves				
page.admin.guestbook.stops	L0	mdi-book-cancel-outline				
page.admin.guestbook		mdi-book-account-outline				
page.admin.jobs	©₽	mdi-clock-start				
page.admin.logs	E	mdi-text-box-multiple-outline				
page.admin.message	Ë	mdi-message-fast-outline				
page.admin.messages		mdi-message-outline				
page.admin.notifications	1	mdi-upload-multiple				
page.admin.run	Ŕ	mdi-run				
page.admin.search	-q	mdi-text-search				
page.admin.tickets	<u>5</u>	mdi-ticket-confirmation-outline				
page.admin.uploads	₫	mdi-upload-multiple				
page.admin.user-stops	-0	mdi-account-cancel				
page.admin.users	.	mdi-account-wrench				
page.admin	° ¢	mdi-cogs				
page.announcement	E	mdi-newspaper-variant-outline				
page.api.json	Å	mdi-power-plug-outline				
page.api.xml		mdi-xml				
page.api	API	mdi-api				
page.browse	<u>IN</u>	mdi-bookshelf				
page.cdn.become		mdi-mirror-rectangle				
page.cdn.list	\oslash	mdi-mirror				
page.cdn.monitor	Q	mdi-check-network-outline				
page.cdn.register	▣	mdi-plus-network-outline				

Table 2.2 – continued

Page	Icon	L
page.cdn	\bigotimes	mdi-mirror
page.changelog.item	i≡	mdi-format-list-bulleted-square
page.changelog	1	mdi-format-list-text
page.community	ő	mdi-account-group-outline
page.contact	Ľ	mdi-email-fast-outline
page.cover	♠	mdi-home
page.credits	:=:	mdi-subtitles-outline
page.ctan-ann		mdi-newspaper-variant-multiple-outline
page.filter.list	X	mdi-filter-off-outline
page.filter.none	∇	mdi-filter-outline
page.guestbook	ē	mdi-comment-text-multiple-outline
page.help.ctan		mdi-book-open-page-variant-outline
page.help.faq	Q?	mdi-lightbulb-question-outline
page.help.lion.files		mdi-file-image-outline
page.help.lion	શ	mdi-zodiac-leo
page.help.markdown	4/2	mdi-pencil-ruler-outline
page.help	?	mdi-help-box-multiple-outline
page.home	4	mdi-home-account
page.incoming	(\mathbf{E})	mdi-progress-upload
page.item	•	mdi-circle-medium
page.licenses	≁_	mdi-gavel
page.lugs	*	mdi-account-group
page.markdown	4/2	mdi-pencil-ruler-outline
page.my.data	•=	mdi-card-account-details-outline
page.my.packages		mdi-card-multiple-outline
page.packages		mdi-card-multiple-outline
page.privacy	Ø	mdi-shield-check
page.search	Q	mdi-magnify
page.sitemap	\square	mdi-map-outline
page.team	Dœ	mdi-account-hard-hat-outline

Page	Icon	
page.tex-archive	D mdi-folder-multiple-outline	
page.tickets	mdi-ticket-confirmation-outline	
page.topics	🔊 mdi-tag-multiple-outline	
page.upload.file	mdi-file-upload-outline	
page.upload.incoming	mdi-progress-upload	
page.upload	▲ mdi-upload	
page.user.home	ndi-home-account	
page.user.public	mdi-account-box-outline	
page.visited	😡 mdi-map-marker-multiple-outline	

Table 2.2 - continued

2.8.3 Icons for cards

The cards have a classifying icon each. This icon is shown in the card title. The icons are shown in table 2.3.

Card	Icon	1
card.distribution.intro	₹	mdi-download
card.distribution.mactex	₹	mdi-download
card.distribution.miktex	₹	mdi-download
card.distribution.texlive	₹	mdi-download
card.dvd	0	mdi-disc
card.licenses	*	mdi-gavel
card.lugs		mdi-account-group
card.message	÷	mdi-message-text-fast-outline
card.mirrors	\oslash	mdi-mirror
card.package	\odot	mdi-package-variant-closed
card.password	ً	mdi-shield-key-outline
card.statistics.upload	1.	mdi-chart-box-outline
card.tex	(j	mdi-information-outline
card.tex-archive		mdi-folder-multiple-outline

Table 2	2.3:	Icons	for	cards
---------	------	-------	-----	-------

Continued...

Table 2.3 – continued			
Card	Icon		
card.topics	S mdi-tag-multiple-outline		
card.upload	▲ mdi-upload		
card.wanted	Mdi-hand-front-right-outline		

2.8.4 Icons for tabs

The tabs can have an icon and text. The icons are shown in table 2.4.

Туре	Context	Icon
tab.download	tex-archive	▲ mdi-download
tab.files		mdi-file-multiple-outline
tab.install	tex-archive	🗙 mdi-tools
tab.install.pkg		🛱 mdi-package-variant-closed-plus
tab.package	tex-archive	🕅 mdi-package-variant-closed
tab.readme	tex-archive	() mdi-information-outline
tab.markdown		<pre>mdi-text-box</pre>
tab.packages		mdi-card-multiple-outline
tab.my.data	home	mdi-card-multiple-outline
tab.my.packages	home	mdi-card-multiple-outline
tab.my.pages	home	mdi-book-open-variant
tab.my.ratings	home	▲ mdi-star-box-multiple-outline
tab.my.visited	home	@ mdi-map-marker-multiple-outline
tab.pkg.abstract	pkg	<pre>mdi-card-text-outline</pre>
tab.pkg.announce	pkg	mdi-email-newsletter
tab.pkg.bibtex	pkg	<pre>mdi-file-document-outline</pre>
tab.pkg.docs	pkg	▲ mdi-bookshelf
tab.pkg.install	pkg	
tab.pkg.install.download	pkg	🛨 mdi-download
tab.pkg.install.mactex	pkg	• mdi-disc
tab.pkg.install.miktex	pkg	• mdi-disc

Table 2.4: Icons for tabs

 ${\rm Continued.} \, . \, .$

Table 2.4 – continued				
Type	Context	Icon		
tab.pkg.install.texlive	pkg	• mdi-disc		
tab.pkg.ratings	pkg	<pre>mdi-star-box-multiple-outline</pre>		
tab.pkg.summary	pkg	mdi-book		
tab.ratings		<pre>mdi-star-box-multiple-outline</pre>		
tab.visited		😡 mdi-map-marker-multiple-outline		

Table 2.4 – continued

2.8.5 Icons for entities

The domain objects have a classifying icon each. This icon is shown in the page title. It is also shown in buttons or links leading to the page. The icons are shown in table 2.5.

Entity	Icor	1	
entity.account	-	mdi-account	
entity.announcement	≞	mdi-newspaper-variant-outline	
entity.archive-notes		mdi-archive-outline	
entity.author	2	mdi-account-badge-outline	
entity.feedback	₽₩	mdi-email-fast	
entity.license	×	mdi-gavel	
entity.pkg	Ø	mdi-package-variant-closed	
entity.pkg.obsolete	டு	mdi-hand-front-right-outline	
entity.pkg.open	٩	mdi-package-variant	
entity.rating	盗	mdi-vote-outline	
entity.tex-archive-notes	:=:	mdi-subtitles-outline	
entity.topic	\bigcirc	mdi-tag-outline	

Table 2.5: Icons for entities

2.8.6 Icons for attributes of entities

The attributes can have a classifying icon each. This icon is shown in the create, retrieve, and update components. It is also shown in buttons leading to the attribute component. The icons are shown in table 2.6.

Attribute	Icon
attribute.account.account	mdi-account
attribute.account.city	🏥 mdi-city
attribute.account.country	P mdi-flag-outline
attribute.account.created	🛱 mdi-calendar-start-outline
attribute.account.description	mdi-text-account
attribute.account.email	Mdi-email
attribute.account.name	i mdi-badge-account-outline
attribute.account.password	mdi-shield-lock-open-outline
attribute.account.passwd.1	A mdi-key-variant
attribute.account.passwd.2	A mdi-key-variant
attribute.account.roles	B mdi-account-box
attribute.author.key	♣ mdi-account-badge-outline
attribute.ctan-ann.summary	🔳 mdi-newspaper-variant-outlin
attribute.feedback.concern	? mdi-message-question
attribute.feedback.reply	🗐 mdi-message-reply-text-outli
attribute.guestbook.account	<pre>mdi-account</pre>
attribute.guestbook.comment	Definition main and m
attribute.guestbook.created	🛱 mdi-calendar-start-outline
attribute.guestbook.email	Mdi-email
attribute.guestbook.section	🛱 mdi-comment-text-outline
attribute.guestbook.title	mdi-comment-alert
attribute.guestbook.text	<pre>mdi-card-text-outline</pre>
attribute.license.details	mdi-text
attribute.license.key	ID mdi-identifier
attribute.license.name	<pre>mdi-text-box-outline</pre>
attribute.license.text	\S mdi-format-section
attribute.license.url	œ _{mdi-link}
attribute.lug.address	🖬 mdi-mail

Table 2.6: Icons for attributes

Attribute	Icon
attribute.lug.email	Mdi-email
attribute.lug.languages	🗳 mdi-sign-language
attribute.lug.newsletter	mdi-email-newsletter
attribute.lug.periodical	mdi-newspaper-variant-outline
attribute.lug.site	mdi-web
attribute.message.from	🛱 mdi-calendar-start-outline
attribute.message.to	🛱 mdi-calendar-end-outline
attribute.message.title	🗩 mdi-message-text
attribute.message.text	mdi-message-text-outline
attribute.message.type	# mdi-pound
attribute.mirror.city	🋍 mdi-city
attribute.mirror.contact	🚔 mdi-account-network-outline
attribute.mirror.country	P mdi-flag-outline
attribute.mirror.email	Mdi-email-outline
attribute.mirror.ftp	:// mdi-protocol
attribute.mirror.http	:// mdi-protocol
attribute.mirror.https	:// mdi-protocol
attribute.mirror.region	S mdi-earth
attribute.mirror.rsync	:// mdi-protocol
attribute.mirror.name	mdi-server
attribute.mirror.notes	mdi-pen
attribute.pkg.announce	mdi-newspaper-variant-outline
attribute.pkg.bugs	🖸 mdi-bug-outline
attribute.pkg.development	X mdi-tools
attribute.pkg.home	M mdi-home-outline
attribute.pkg.repository	e mdi-database-outline
attribute.pkg.support	2 mdi-help-circle-outline
attribute.pkg.topics	🛇 mdi-tag-multiple-outline
attribute.pkg.version	123 mdi-numeric

Table 2.6 – continued

Attribute	Icon	1
attribute rating comment	E	mdi-card-text-outline
attribute rating expertise	E¥)	mdi-certificate-outline
attribute.stopword.word	0	mdi-close-octagon-outline
$attribute.tex\-archive-notes.path$		mdi-folder-outline
attribute.tex-archive-notes.text.de		mdi-folder-text-outline
$attribute.tex\-archive-notes.text.en$		mdi-folder-text
attribute.ticket.key	Ы	mdi-ticket-outline
attribute.upload.announcement		mdi-message-outline
attribute.upload.announce		mdi-newspaper-variant-outline
attribute.upload.author	2	mdi-account-badge-outline
attribute.upload.bugs	Õ	mdi-bug-outline
attribute.upload.created		mdi-calendar-outline
attribute.upload.description		mdi-card-text
attribute.upload.development	X	mdi-tools
attribute.upload.email	\square	mdi-email-outline
attribute.upload.file	ŀ	mdi-file-upload-outline
attribute.upload.home	俞	mdi-home-outline
attribute.upload.mailinglist		mdi-email-newsletter
attribute.upload.note	\square	mdi-comment-outline
attribute.upload.notify	×,	mdi-email-check
attribute.upload.path		mdi-folder-outline
attribute.upload.repository	8	mdi-database-outline
attribute.upload.server		mdi-server-network
attribute.upload.status	4	mdi-state-machine
attribute.upload.summary	Ξ	mdi-card-text-outline
attribute.upload.support	?	mdi-help-circle-outline
attribute.upload.topics	\heartsuit	mdi-tag-multiple-outline
attribute.upload.type	(mdi-radar
attribute.upload.updated		mdi-calendar-outline

Table 2.6 – continued
Table 2.6 – continued			
Attribute	Icon		
attribute.upload.uploader	<pre></pre>		
attribute.upload.version	123 mdi-numeric		

2.8.7 Icons for attribute values

The attribute values can have a classifying icon each. The gender icon is shown for users or authors. It is shown in pages or components. The icons are shown in table 2.7.

Value	Context	Icon
account.enabled.false	account	Ø mdi-check-circle-outline
account.enabled.true	account	Mdi-check-circle
account.locked.false	account	mdi-shield-lock-open-outline
account.locked.true	account	mdi-shield-lock-outline
animation.0	animation	O mdi-circle-outline
animation.1	animation	• mdi-circle-slice-2
animation.2	animation	Mdi-circle-slice-4
animation.3	animation	Mdi-circle-slice-6
checkbox.off	checkbox	mdi-checkbox-blank-outline
checkbox.on	checkbox	Mdi-checkbox-marked-outline
expertise.empty	expertise	O mdi-circle-outline
expertise.full	expertise	mdi-circle
gender.f	gender	★ mdi-human-female
gender.g	gender	👬 mdi-human-queue
gender.m	gender	mdi-human-male
gender.x	gender	mdi-baby-face-outline
license.type.free	license	Mdi-thumb-up-outline
license.type.nonfree	license	Mdi-alert-rhombus-outline
license.type.unknown	license	6, mdi-thumbs-up-down-outline

Table 2.7: Icons for attribute values

Value	Context	Icon
pkg.new	pkg	№ mdi-new-box
pkg.exists	pkg	🛠 mdi-package-variant-closed-check
star.full	star	★ mdi-star
star.half	star	<pre>mdi-star-half</pre>
star.empty	star	☆ mdi-star-outline
state.error	state	mdi-exclamation-thick
state.ok	state	✓ mdi-check
theme.dark	theme	f mdi-moon-waning-crescent
theme.light	theme	XQX mdi-weather-sunny

Table 2.7 – continued

2.8.8 Icons for buttons

The buttons can have an icon and text or just an icon. The icons are shown in table 2.8.

Type	Icon		
button.account.delete	🗙 mdi-account-off		
button.author.confirm	<pre> mdi-account-check-outline </pre>		
button.backward	← mdi-arrow-left		
button.back	mdi-arrow-left-bold		
button.browse	👖 mdi-bookshelf		
button.clear	× mdi-close		
button.close	× mdi-close		
button.create	\oplus mdi-plus-circle-outline		
button.ctrl.next	Mdi-skip-next		
button.ctrl.pause	Mdi-pause		
button.ctrl.play	▶ mdi-play		
button.ctrl.previous	Mdi-skip-previous		
button.delete	D mdi-delete-outline		

Table 2.8: Icons for buttons

Туре	Icon	l
button.download	₹	mdi-download
button.feedback	:	mdi-email-fast
button.filter	T	mdi-filter
button.foreward	\rightarrow	mdi-arrow-right
button.guestbook.add	(†	mdi-comment-plus-outline
button.help.on	?	mdi-tooltip-question
button.help.off'	?	mdi-tooltip-question-outline
button.link	S	mdi-link-variant
button.login	€	mdi-login-variant
button.logout	[→	mdi-logout
button.menu.down	•	mdi-menu-down
button.menu.left	٩	mdi-menu-left-outline
button.menu.right	Þ	mdi-menu-right-outline
button.menu.search	$\nabla_{\!$	mdi-filter-menu-outline
button.menu.search.close	Q	mdi-magnify-minus-outline
button.menu.search.open	Ð	mdi-magnify-plus-outline
button.mirror.submit	\oplus	mdi-plus-circle-outline
button.no	$Q^{\mathbf{I}}$	mdi-thumb-down-outline
button.pkg.docs.src	⊡	mdi-archive-outline
button.reset	Ð	mdi-restore
button.save	∎	mdi-content-save-outline
button.search	Q	mdi-magnify
button.search.close	ର୍	mdi-magnify-minus-outline
button.search.help		mdi-lifebuoy
button.search.history	Q	mdi-select-search
button.search.open	Ð	mdi-magnify-plus-outline
button.search.reset	ଷ୍	mdi-magnify-remove-outline
button.settings	:	mdi-dots-vertical
button.upload	1	mdi-upload
button.upload.new	<u>1</u>	mdi-upload-outline

Table 2.8 – continued

Table 2.8 – continued			
Туре	Icon		
button.user.cards	n n	ndi-view-module	
button.user.settings	🛔 n	ndi-account-settings	
button.view-cards	n n	ndi-view-module	
button.view.list	n n	ndi-view-list	
button.view.settings	O n	ndi-eye-settings-outline	
button.visit	n K	ndi-arrow-top-right-bold-outline	
button.yes	цС п	ndi-thumb-up-outline	

Table 2.8 – continued

2.8.9 Icons for files

Wherever files are listed they are decorated with icons. To guarantee a uniform appearance a few rule are defined for the file icons in the following sections.

2.8.9.1 File icons by type

If nothing else is applicable then the file type determines the icon to be used. These names are listed in table 2.9.

Туре	Icon
file.type.directory	mdi-folder-outline
file.type.directory.open	🛱 mdi-folder-open-outline
file.type.plain	D mdi-file-outline
file.type.symlink	G mdi-arrow-u-right-bottom
file.type.other	mdi-file
file.type.d	🗖 mdi-folder-outline
file.type.d.open	🗁 mdi-folder-open-outline
file.type.f	D mdi-file-outline
file.type.l	G mdi-arrow-u-right-bottom
file.type.x	mdi-file

2.8.9.2 File icons by name

Some files are special. They deserve an icon which is based on the full file name. These names are listed in table 2.10.

Table 2.10: File icons by name			
Name	Icon		
file.name.COPYING	e mdi-license		
file.name.LICENSE	😫 mdi-license		
file.name.makefile	🔓 mdi-file-cog		
file.name.Makefile	🔓 mdi-file-cog		
file.name.README	i mdi-information		
file.name.README.md	d mdi-information		

2.8.9.3 File icons by extension

Most files are characterised by their extension. These extensions are listed in table 2.11.

Extension	Icon	
file.ext.arc		mdi-archive-outline
file.ext.bib	Ш	mdi-library-shelves
file.ext.boo		mdi-archive-outline
file.ext.bst	₽	mdi-file-cog-outline
file.ext.cls	₽	mdi-file-cog-outline
file.ext.dtx	₽	mdi-file-cog-outline
file.ext.dvi		mdi-file-document
file.ext.eps		mdi-file-image-outline
file.ext.gif		mdi-file-image-outline
file.ext.gz		mdi-archive-outline

Table 2.11: File icons by extension

Extension	Icon	L
file.ext.hqx	\Box	mdi-archive-outline
file.ext.html	•	mdi-file-code-outline
file.ext.ist	₽	mdi-file-cog-outline
file.ext.latex	-	mdi-file-document-outline
file.ext.ltx	-	mdi-file-document-outline
file.ext.jpeg		mdi-file-image-outline
file.ext.jpg		mdi-file-image-outline
file.ext.png		mdi-file-image-outline
file.ext.pdf		mdi-file-document
file.ext.ps		mdi-file-document
file.ext.sty	₽	mdi-file-cog-outline
file.ext.tex	-	mdi-file-document-outline
file.ext.tif		mdi-file-image-outline
file.ext.xz		mdi-archive-outline
file.ext.zip	\Box	mdi-archive-outline

Table 2.11 - continued

2.8.9.4 More icons

Finally some names do not fit into the sections above These names are listed in table 2.12.

Table 2.12. More icons		
Туре	Icon	
account.locked	2 mdi-account-lock-outline	
account.unlocked	🕰 mdi-account-lock-open-outline	
attribute.filter	T mdi-filter	
attribute.email	Mdi-email	
breadcrumb.sep	> mdi-chevron-right	
carousel.delimiter	<pre> mdi-circle-double </pre>	
dialog.confirm	by mdi-thumbs-up-down-outline	
dialog.guestbook.add	mdi-comment-plus-outline	

Table 2.12: More icons

Type	Icor	
-, p~		-
dialog.login	ି ଜ	mdi-power
dialog.password		mdi-shield-key-outline
dialog.refresh		mdi-shield-refresh-outline
dialog.register	+ <u></u>	mdi-account-plus-outline
dialog.reset	. ?	mdi-account-question
error.message		mdi-flash-triangle-outline
field.create		mdi-pen-plus
field.edit	A	mdi-pen
field.edit.default	\bigcirc	mdi-pencil-circle-outline
field.pkg.bibtex.type	Ŧ	mdi-file-star-four-points-outline
field.view	\odot	mdi-eye-outline
file.readme	0	mdi-information
indicator.visited	\mathbf{O}	mdi-map-marker-outline
info.i	(\mathbf{i})	mdi-information-outline
info.error	()	mdi-alert-octagon-outline
info.passwd.ok	ľ	mdi-thumb-up-outline
info.passwd.fail	(!)	mdi-alert-octagon-outline
item.team.member	Dœ	mdi-account-hard-hat-outline
item.team.former	4	mdi-account-hard-hat
item.team.role	4	mdi-hard-hat
label.my.rating	Þ	mdi-star-box-multiple-outline
label.pkg.bibtex.key		mdi-card-text
list.end		mdi-stop
markdown.input	Ĉ	mdi-clipboard-edit-outline
markdown.tab.preview	Ţ	mdi-monitor
markdown.tab.source	<>	mdi-code-tags
pkg.orphaned	4	mdi-hand-pointing-up
section.ratings.my	\square	mdi-comment-outline
role.admin	Dœ	mdi-account-hard-hat-outline
search.message.E	0	mdi-lightning-bolt-circle

Table 2.12 – continued

_

Туре	Icon	
search.message.I	()	mdi-information-outline
section.contributions	\$	mdi-package-variant-closed-plus
section.json	{}	mdi-code-json
section.my.settings	A	mdi-pen
section.note	\Diamond	mdi-alert-rhombus-outline
section.packages		mdi-package
section.pkg.docs.source		mdi-archive
section.ratings.all	þ	mdi-comment-multiple-outline
star.full	\star	mdi-star
star.half	1	mdi-star-half
star.empty	☆	mdi-star-outline
tip.title	₽	mdi-head-question

Table 2.12 – continued

2.9 Tool tips and hints

Buttons tend to have short labels accompanied or even replaced by icons. To some users those are clear and no further explanation is required. For other users questions arise and slightly more information is appreciated. This addition information can be given in form of tool tips.

To support our users any active element should have a more detailed description. This can be displayed as tool tip – for instance for buttons. Another possibility is to use hints – for instance for text input fields.

The tool tips should always contain complete sentences and not only single words. As a consequence the tool tips usually end with a period.

2.10 Use of images

Images can help the user to identify where he is on the Web site. Instead of relying on a pure textual transmission of such an information images provide a graphical representation.

Some users might find the images distracting. Those users should be able to turn off the use of images in their personal settings.

2.10.1 Settings for images

Story

As user of the CTAN site (Theodora Usher)

I want to pure text on the site without images

In order to concentrate on the content message and do not waste screen space with graphics.



Figure 2.10: The settings menu with images

Explanations

Some users might find the images distracting. Those users should be able to turn off the use of images in their personal settings.

The figure 2.10 shows an example of the settings.

Acceptance criteria

- Given I am on any CTAN page and I have enabled images in the settings Then the tiles on the page have an illustrative image at the top.
- Given I am on any CTAN page and I have disabled images in the settings Then the tiles on the page do not have an illustrative image at the top.

- Given I am on any page with a pop-up dialogue opened and I have enabled images in the settings Then the dialogue has an illustrative image at the top.
- Given I am on any page with a pop-up dialogue opened and I have disabled images in the settings Then the dialogue does not have an illustrative image at the top.

2.11 Picture credits



Figure 2.11: The picture credits pop-up when requested

Story

As web master (Waclaw Munn)*I want* to know who has created a picture*In order to* check the legal aspects of the use.

Explanations

The credits are shown if the cursor is placed over the right side of the image. The credits are only shown when the user actively looks for it. In the normal mode of operation this information is hidden. An example is shown in figure 2.11.

Acceptance criteria

Some of the pictures are taken from external sources. Here we make sure that the copyright allows their use in the context of CTAN.

1.

missing acceptance criteria

2.12 URLs

URLs are considered as part of the user interface. Thus the URLs should follow some rules of their own.

URLs should be readable

They use short English terms.

Implementation details should be hidden

Implementation details should be not visible in URLs. For instance extensions like .html or .php must be avoided. Thus extensions which refer to the technology are not used at all.

URLs should be durable

Changes to URLs should be considered carefully. The URLs make it into the world and are present on Web sites and news postings forever.

We should try to avoid frustrating experiences of user who click on links which do not exist any more. This can be achieved by redirects in case that a URL must be moved.

2.13 The page layout

Ordinary pages of the CTAN site are all pages except the error page.

Ordinary pages share a common layout. It consists of several building blocks. The scheme and an example can be seen in figure 2.12.

The following sections can be found in the default layout:

- **Tool bar** The tool bar is located at the top of the page. It contains a few important items.
- **Footer** The footer is located at the bottom of the page. The footer contains some informative items.
- Left navigation The left navigation allows the user to navigate to various pages of the site.
- **Content** The content area contains the main content of the page.

Tool Bar		
Left Navigation Content		۹ ७ :
Footer		
	02024 CTAN TEAM ACE CONTACT 🥥 PRIVACY	() About

(a) The default layout components...

(b) ... and an empty example

Figure 2.12: The card scheme

٩	CTAN	୍	ወ	:
88	1946 METER A OTKERE EXIGN TO	4 G	94	D.

Figure 2.13: The tool bar

2.13.1 Tool bar

Story

As visitor of CTAN (Chris Voigt)

I want to find certain functionality the top of each page

In order to get my expectations fulfilled.

Explanations

The tool bar contains several buttons. This is shown in figure 2.13.

- **Navigation control** can be used to change the appearance of the left navigation from "narrow" to "expanded".
- CTAN icon shows a hand-drawn-style CTAN logo. It is a link to the cover page 5.
- Search button opens the search input field.
- **Login button** is only shown when the user is not logged-in (see figure 2.16). It opens the dialogue to log-in, register an account, or request information the user might

have forgotten.

User menu is only shown when the user is logged-in (see figure 2.17).

Settings menu opens the menu with settings. There the user can customise the appearance of the CTAN site (see figure 2.18).

2.13.1.1 Navigation control button

Acceptance criteria

 Given I am currently visiting a normal page of the site Then the tool bar contains a button to control the appearance of the navigation bar on the left side Then the tool bar contains a button to control the appearance of the navigation bar on the left side.

2.

2.13.1.2 CTAN logo button

Story

As visitor of CTAN (Chris Voigt)

I want to have a fast navigation to the cover page at the top of each page

In order to easily and fast use it.

Explanations

This image is a button to navigate to the cover page. It is always visible – even when the navigation bar is closed.

The tool bar logo button can be seen in figure 2.13.

Acceptance criteria

- 1. Given I am currently visiting a normal page of the site Then the tool bar contains a button with a CTAN logo in the middle.
- 2. Given I am currently visiting a normal page of the site When I click on the button with a CTAN logo Then I am navigated to the cover page.
- 3. Given I am currently visiting a normal page of the site When I hover over the button with a CTAN logo

missing acceptance criteria Then the tool tip "Comprehensive TEX Archive Network" is shown.

4. Given I am currently visiting a normal page of the site and The selected language is English.When I hover over the button with a CTAN logo Then I am navigated to the cover page.

2.13.1.3 Test indicator

Story

As visitor of CTAN (Chris Voigt)

I want to get a prominent indication for being on a test instance

In order to to avoid confusion with the productive instance.

Explanations







Figure 2.15: The tool bar in the test context

When the feature test is set (cf. 2.13) then the test label is shown in the tool bar (see figure 2.14). The label shows a tool tip when the mouse is over it (see figure 2.15).

Acceptance criteria

1. Given I am currently visiting a normal page of the site and the feature "test" is enabled (cf. 2.13) Then the tool bar contains an indicator "TEST" beside the CTAN logo in the middle.

- 2. Given I am currently visiting a normal page of the site and the feature "test" is disabled (cf. 2.13) Then the tool bar contains no indicator "TEST".
- 3. Given I am currently visiting a normal page of the site and the feature "test" is enabled (cf. 2.13) When I hover over the "TEST" indicator Then a tool tip is shown.

2.13.1.4 Search button

Story

As visitor of CTAN (Chris Voigt)

I want to have access to the search functionality at the top of each page

In order to easily and fast use it.

Explanations

This button is a toggle to show and hide the search bar.

The tool bar search button can be seen in figure 2.13.

Acceptance criteria

- Given I am currently visiting a normal page of the site and The search bar is closed.
 When I click on the button for the search bar Then the search bar is opened.
- Given I am currently visiting a normal page of the site and The search bar is opened.
 When I click on the button for the search bar Then the search bar is closed.
- Given I am currently visiting a normal page of the site and The search bar is opened.
 When I click on the button for the search bar Then the search bar is closed.
- 4. Given I am currently visiting a normal page of the site Then the tool bar contains a button to control the search bar.

- 5. Given I am currently visiting a normal page and the language is English.
 When I hover over the search bar button Then the tool tip "Switch to the search field. [CTRL-?]" is shown.
- 6. Given I am currently visiting a normal page and the language is German. When I hover over the Then the tool tip "Öffne das Sucheingabefeld. [CTRL-?]" is shown.

2.13.1.5 Login button

Story

As visitor of CTAN (Chris Voigt)

I want to find a button to login or register an account on each page

 ${\it In~order~to}$ enable the personalised features of the site.

Explanations



Figure 2.16: The tool bar login button

The login button is only shown when the user is not logged in. The login button opens the login dialogue. The appearance is shown in figure 2.16.

Acceptance criteria

- Given I am currently visiting a normal page of the site and I am not logged in Then the login button is visble and the user menu is not accessible.
- Given I am currently visiting a normal page of the site and I am logged in Then the login button is not visble

and the user menu is accessible.

3.	Given I am currently visiting a normal page
	and the language is English.
	When I hover over the login button
	Then the tool tip "As a user you can benefit from additional features of the site.
	Log-in here or register a new account." is shown.
4.	Given I am currently visiting a normal page
	and the language is German.
	When I hover over the
	Then the tool tip "Als Nutzer kannst du von zusätzlichen Funktionen des Portals
	profitieren. Melde dich hier an oder registriere eine neue Kennung." is shown.
5.	Given I am currently visiting a normal page of the site
	and I am not-logged in
	When I click the login button
	Then the login dialog is opened.

6.

2.13.1.6 User menu

Story

As visitor of CTAN (Chris Voigt)

I want to have a menu to navigate to my personalised pages on each page

In order to allow easy access to those functionality.

Explanations

The user menu button is only shown when the user is logged in. The user menu button shows an icon and the login name os the current user. The user menu button openes the user's menu. The appearance of the user menu is shown in figure 2.17.

The user menu may contain the following items:

User name shows the user name as title. it is not selectable.

Start page is a link to the user's dash board.

Public page is a link to the public page for the user.

Administartion page is a link to the administration dash board. It is only present if the user has the admin role.

Log-out button allows to log-out and optionally navigate to the cover page.

1. Given I am currently visiting a normal page of the site

missing acceptance criteria



Figure 2.17: The tool bar user's menu

and I am logged in When I hover over the user button Then the user menu is opened.

- 2. Given I am currently visiting a normal page of the site and I am logged in and the user menu is opened Then the user name is present as title and the title item is not selectable.
- 3. Given I am currently visiting a normal page of the site and I am logged in and the user menu is opened Then a start page item is present.
- 4. Given I am currently visiting a normal page of the site and I am logged in and the user menu is opened and the language is English Then the start page item has the label "My start page".
- 5. Given I am currently visiting a normal page of the site and I am logged in and the user menu is opened and the language is German Then the start page item has the label "Meine Startseite".
- Given I am currently visiting a normal page of the site and I am logged in and the user menu is opened

	When I click on the start page item Then I am navigated to my start page.
7.	Given I am currently visiting a normal page of the site and I am logged in and the user menu is opened and the language is English Then the public page item has the label "My public page".
8.	Given I am currently visiting a normal page of the site and I am logged in and the user menu is opened and the language is German Then a public page item has the label "Meine öffentliche Seite".
9.	Given I am currently visiting a normal page of the site and I am logged in and the user menu is opened When I click on the public page item Then I am navigated to my public page.
10.	Given I am currently visiting a normal page of the site and I am logged in and I am in the role admin and the user menu is opened and the language is English Then the admin page item has the label "Administration page".
11.	Given I am currently visiting a normal page of the site and I am logged in and I am in the role admin and the user menu is opened and the language is German Then a admin page item has the label "Administrationsseite".
12.	Given I am currently visiting a normal page of the site and I am logged in and I am in the role admin and the user menu is opened When I click on the admin page item Then I am navigated to the adminstation page.
13.	Given I am currently visiting a normal page of the site and I am logged in and the user menu is opened and the language is English Then the log-out item has the label "Sign-out".

14. Given I am currently visiting a normal page of the site

and I am logged in and the user menu is opened and the language is German Then the log-out item has the label "Abmelden".

- 15. Given I am currently visiting a unprotected page of the site and I am logged in and the user menu is opened When I click on the log-out item Then I am no longer logged in and I am still on this page.
- 16. Given I am currently visiting a protected page of the site and I am logged in and the user menu is opened When I click on the log-out item Then I am no longer logged in and I am navigated to the cover page.

2.13.1.7 Settings menu

Story

As visitor of CTAN (Chris Voigt)

I want to find a menu with personal settings on each page

In order to adjust the appearance of the site to my taste.

Explanations

The menu allows the user to adapt the appearance of the site to a certain degree. The settings are stored locally in the browser. Thus they are under full controll of the user.

The following settings are offered:

English Switch to the language English.

German Switch to the language German.

Show images Toggle to show the illustrative images.

Show icons Toggle to show icons almost everywhere.

Use logo style Toggle to use T_FX logos, i.e. T_FX vs. TeX.

Animation Rotate through the animation speeds "slow", "normal", "fast", and "off".

Theme Rotate through the themes "light" and "dark".

Whenever a setting is changed then the effect is activated immediately.



Figure 2.18: The tool bar settings menu

The appearance of the settings menu is shown in figure 2.18.

Acceptance criteria

- Given I am currently visiting a normal page of the site When I click on the settings button Then the settings menu is opened.

2.13.2 Footer



Story

As CTAN visitor (Chris Voigt)

I want to have some links immediately at hand in the footer of each page *In order to* have fast acess to them.

Explanations

The footer contains several buttons. This is shown in figure 2.19.

Copyright is the information on the copyright of the page. It is a link to the about page (see section 26).

Contact is a link to the contact page (see section 23.1).

Privacy is a link to the privacy statement (see section 24).

Feedback is a button to open the feedback dialogue (see section 25).

About is a link to the about page (see section 26).

On a wide device icons and text are used (see figure 2.19a). On a narrow device only the icons are shown (see figure 2.19b).

Acceptance criteria

1.	Given I am on an ordinary page
	and the language is English
	Then the footer contains the copyright note "© «year» CTAN Team".

- Given I am on an ordinary page and the language is German Then the footer contains the copyright note "ⓒ «year» CTAN-Team".
- Given I am on an ordinary page When I click on the copyright note Then then I am navigated to the credits page (see section 23.3).
- 4. Given I am on an ordinary page Then the footer contains the a contact button.
- Given I am on an ordinary page When I click on the contact button Then then I am navigated to the contact page (see section 23.1).
- 6. Given I am on an ordinary page Then the footer contains the a privacy button.
- Given I am on an ordinary page When I click on the privacy button Then then I am navigated to the privacy page (see section 24).
- 8. Given I am on an ordinary page Then the footer contains the an about button.
- Given I am on an ordinary page When I click on the about button Then then I am navigated to the about page (see section 26).

2.13.3 Left navigation bar

Story

As user of the CTAN site

I want to navigate in the directory tree of the site's pages

In order to to go efficiently to interesting pages.



Figure 2.20: The left navigation

Explanations

The left navigation allows a fast opening of a specific page. It is present on any normal page. The appearance of the left navigation bar is depicted in figure 2.20.

The following items may appear in the left navigation:

CTAN Dashboard

Navigate to the cover page (see section 5).

User Dashboard

Navigate to the user dashboard (see section 16). This item is available only if an authenticated user is present.

Browse CTAN

Navigate to the Catalogue browse page (see section 6).

Search

Navigate to the search start page (see section 18).

Help on CTAN

Navigate to the help overview page (see section 20.1).

Upload

Navigate to the upload overview page (see section 19).

Mirrors

Navigate to the CDN overview page (see section 14.2).

Announcements

Navigate to the announcements overview page (see section 12).

T_EX User Groups

Navigate to the LUGs page (see section 21).

CTAN Sitemap

Navigate to the CTAN sitemap (see section 28).

CTAN Administration

Navigate to the admin overview page (see section 29.2). This item is available only if an authenticated user is present who has the admin role.

The appearance of the navigation bar can be seen in figure 2.20. There we see various instances. In figure 2.20a the left navigation for the anonymous user is closed. In figure 2.20b the left navigation is expanded. As a third possibility the left navigation can be hidden. Then it is not shown at all.

Finally, the expanded version is shown in figure 2.20c for an authenticated user. This user has administrator permissions.

Acceptance criteria

1.	Given I am on any normal page
	and the navigation bar is visible
	When I click on the item "CTAN Dashboard"
	Then I am navigated to the cover page (see section 5).

- Given I am on any normal page and I am authenticated as user and the navigation bar is visible When I click on the item "User Dashboard" Then I am navigated to the user dashboard page (see section 16).
- 3. Given I am on any normal page and I am not authenticated as user and the navigation bar is visible Then the item "User Dashboard" is not present.
- 4. Given I am on any normal page and the navigation bar is visible When I click on the item "Browse CTAN" Then I am navigated to the Catalogue browse page (see section 6).
- 5. Given I am on any normal page and the navigation bar is visible When I click on the item "Search" Then I am navigated to the search start page (see section 18).
- 6. Given I am on any normal page and the navigation bar is visible When I click on the item "Help on CTAN" Then I am navigated to the help overview page (see section 20.1).
- 7. Given I am on any normal page and the navigation bar is visible When I click on the item "Upload" Then I am navigated to the upload overview page (see section 19).
- 8. Given I am on any normal page and the navigation bar is visible When I click on the item "CDN" Then I am navigated to the CDN overview page (see section 14.2).
- 9. Given I am on any normal page and the navigation bar is visible When I click on the item "Announcements" Then I am navigated to the announcements overview page (see section 12).
- 10. Given I am on any normal page and the navigation bar is visible

and the feature sitemap is enabled When I click on the item "CTAN Sitemap" Then I am navigated to the CTAN sitemap (see section 28).

- 11. Given I am on any normal page and the navigation bar is visible and the feature sitemap is disabled Then the item "CTAN Sitemap" is not present.
- 12. Given I am on any normal page and the navigation bar is visible and I am authenticated as user with the role admin When I click on the item "CTAN Administration" Then I am navigated to the admin overview page (see section 29.2).
- 13. Given I am on any normal page and the navigation bar is visible and I am authenticated as user without the role admin Then the item "CTAN Administration" is not present.
- 14. Given I am on any normal page and the navigation bar is visible and I am not authenticated as user Then the item "CTAN Administration" is not present.

2.13.4 Content

The content area is used to present the information and functionality of the specific page. The content area takes up the whole space not needed for the other page elements.

The content may have a background image.

2.13.5 Page title

Each page has a unique title in the selected language (cf. section 3). The page title might be used by the browser to label the window or the tab.

2.13.6 Page icon

Each page has a favicon. We use the same icon for each page (see figure 2.21).

2.14 The card metaphor

As a graphical building block we use the card metaphor. A card is characterised by a rectangular area with rounded corners at the top and sharp corners at the bottom.



Figure 2.21: The page icon



(a) The card scheme...

(b) \dots and an example

Figure 2.22: The card scheme

The top is optionally covered by an image. The image is followed by a title and the further content of the card.

< UT

The scheme and an example can be seen in figure 2.22.

2.14.1 The card metaphor for dialogues

	🏅 😫 Register	× 9
Title	x	
Image	Submit a registration request. An email is se on link for the next step in the registration. The pr your profile.	nt to your address to provide a sy e you are requested to complete
	Account	
	This value is required. It can not be left empty.	
	Email	
	1	
Contant	SUBMIT	× CANCEL
Content	© SIGN-IN	
	± REQUEST ACC	e e
	le: Q RESET PASSY	vord ar
	ited by many authors and publishers	detailed explanations there. You d
(a) The card scheme for dialogues	(b) and an	example

Figure 2.23: The card scheme for dialogues

The card metaphor is applied to dialogues as well. In this case the title is shifted to the top bar and the image slides down. In addition a close button is present at the upper right corner.

The scheme and an example can be seen in figure 2.23.

2.14.2 The card metaphor for tables

The card metaphor is applied to tables in a reduced form. In this case the top rule is rounded left and right.

The scheme and an example can be seen in figure 2.24.

The formatting of tables is inspired by table typography in print. This means no vertical lines in the table. A thicker top line and bottom line. And a small line between rows.

1 4 1 1 4

Subject	Packages	Date
E CTAN update: amiri	amiri	2024-08-05
E CTAN update: newpx	newpx	2024-08-05
E CTAN update: newtx	newtx	2024-08-05
E CTAN update: statistics	statistics	2024-08-05
E CTAN update: algobox	algobox	2024-08-05
E CTAN Update: testidx	testidx	2024-08-05
E CTAN Update: I3kernel	l3kernel	2024-08-05
E CTAN update: filecontentsdef	filecontentsdef	2024-08-05
E CTAN update: l3experimental	l3experimental	2024-08-05

Figure 2.24: The card scheme for tables

2.15 Infinite scrolling

If a list has many elements it is not desirable to shovel all entries from the server to the client immediately. In former times the metaphor of paging has been used to limit the number and get the data in junks.

Nowadays the additional controls for paging are considered distracting. The metaphor of "infinite scrolling" is used. The first visible part of the list is shown and more elements are fetched from the back-end when required. This means if the user scrolls down then from time to time the list is enlarged.

The CTAN site uses infinite scrolling instead of paging wherever applicable.

2.16 Messages of the day



Figure 2.25: The messages box with one message

Story

As user of the CTAN site (Theodora Usher)

 ${\it I}$ want to see system messages when I enter the site

In order to be well-informed and react accordingly.



Figure 2.26: The messages box with two messages

Explanations

The messages of the day are retrieved from the back-end server (cf. section 29.11) and put in a message box on the page if required.

Since the motd usually does not change very often a higher refresh rate is not necessary.

The messages of the day are sensitive to the language in action.

The appearance of the messages box is shown in figure 2.25 with one message and in figure 2.26 with two messages.

Acceptance criteria

2.17 The error page layout

There are situations when an error occurs which has to be communicated to the user. In the simplest case the user has requested a non-existing page.

Story

As T_EX user (Theodora Usher)

I want to get feedback when something goes wrong

In order to see if I can do something differently to reach my goal.

Explanations

The error page contains a card (see also section 2.14).

Acceptance criteria

1. ______missing acceptance criteria

2.17.1 Page not found

Explanations

When a page has been requested which does not exist then the user should be informed about this fact.

The appearance of the respective error page is shown in figure 2.27.



Figure 2.27: The 404 error page

Acceptance criteria

1. When I enter the URL of a page on CTAN which does not exist Then I am redirected to the 404 page.

2.17.2 Internal server error

Explanations

When the back-end server reports an unexpected error then the user should be informed about this fact.

The appearance of the respective error page is shown in figures 2.28 and 2.29.

Acceptance criteria

1.		missing
	L	acceptance
		criteria

2.17.3 Maintenance down-time

Explanations

When the administrator has turned on maintenance mode then the user should be informed about this fact. The page should reload automatically to simplify the interaction



Figure 2.28: The 503 error page



Figure 2.29: The 500 error page



Figure 2.30: The error page when maintenance is performed
for the user.

The appearance of the respective error page is shown in figure 2.30.

The maintenance mode is determined by the existence of the file. It located at /serv/www/www.ctan.org/max If it is present then no requests should be forwarded to the back-end server.

Acceptance criteria

- 1. Given the back-end server is in maintenance mode. When I enter the URL of a page on CTAN which does exist Then I am redirected to the maintenance information page.
- Given the back-end server is in maintenance mode. and I am on the maintenance information page. When the waiting time (30 seconds) has passed Then the originally requested page is reloaded.

2.17.4 Server not reachable





Explanations

When the back-end server can not be reached without the maintenance mode to be active then the user should be informed about this fact.

The appearance of the respective error pop-up is shown in figure 2.31.

The "server unreachable" pop-up respects the currently selected language. I also takes respects the setting for "show icons" and "show images". Since the settings menu is available while the pop-up is open any changes to these settings take effect immediately.

Acceptance criteria

- Given the back-end server is not in maintenance mode and the back-end server is not reachable . When I initiate an action which requires to communicate with the back-end server Then I get a pop-up for the "server unreachable" event.
- Given I am on a page and the "server unreachable" pop-up is shown When I click on the "Got it" button Then the pop-up is closed.
- Given I am on a page and the "server unreachable" pop-up is shown When I click on the close button Then the pop-up is closed.
- 4. Given I am on a page and the "server unreachable" pop-up is shown When I click on the top-left attention icon Then the display of additional debug data about the error is toggled.

2.18 Configurability by features

Story

As web master of the CTAN site (Waclaw Munn)

 ${\it I}$ want to easily turn on or off part of the functionality of the CTAN site

 ${\it In~order~to}~{\rm react}$ on current requirements.

Explanations

Up to a certain degree the CTAN site should be configurable to allow a dynamic adaption to changing requirements. This means that parts and pages might be enabled or disabled.

This is not required very often. Thus it must not be performed in the running system. It is enough to have the features defined in the program sources and require a deployment to propagate changes to the productive instance.

The configurability is kept in the client store **features** even if no dynamic change is planned currently. The features contained are shown in table 2.13

Table 2.13: The features					
Name	Default	Meaning			
feedback.form	true	This boolean feature indicates that the feedback button and the feedback dialogue are turned on.			
guestbook.page	true	This boolean feature indicates that the guestbook page is shown.			
guestbook.public	false	This boolean feature indicates that any user can post a new entry.			
pkg.ratings	true	This boolean feature indicates that the ratings for packages are shown.			
pkg.install.texlive	true	This boolean feature indicates that the installation instructions for T_EX live are shown.			
pkg.install.miktex	true	This boolean feature indicates that the installation instructions for MiKT _E Xare shown.			
pkg.install.mactex	true	This boolean feature indicates that the installation instructions for MacT _E Xare shown.			
sitemap	true	This boolean feature indicates that the sitemap page is shown.			
test	false	This boolean feature indicates that the test instance.			
tile.dvd	true	This boolean feature indicates that the DVD tile on the cover page is shown.			
tile.wanted	true	This boolean feature indicates that the "Wanted" tile on the cover page is shown.			
visited.indicator	true	This boolean feature indicates that the "visited" icon on packages is shown if applicable.			

Continued...

Table 2.15 - Continued				
Name	Default	Meaning		
visited.page	true	This boolean feature indicates that the "visited" tab on the user dashboard is present.		
votes.my	true	This boolean feature indicates that the "votes" tab on the user dashboard is present.		

Acceptance criteria

1.		missing
	¥	acceptance
		criteria

3 I18n: Internationalisation

 $T_{E}X$ is a internationally used program. Thus users are located anywhere around the world. Thus the attempt has been started to support more than one language. Currently the following languages are supported:

- English (in the British dialect)
- German

With the two languages a base is defined which can be extended with additional languages in the future. In figure 3.1 we can see an example in two languages.

4	CTAN				CTAN	
			↑ ▲ Q			
Browse CTAN			±	L CTAN browsen		
The T _E X catalogue can be queried from seve	ral sides. Thus you should easily find a w	ay to the item you are looking for.	0 2	Der T _E X-Katalog kann aus verschiedenen Ri werden. Damit solltest du einfach einen W	chtungen angegangen finden, das dich intere sg zu dem Element	essiert.
□ 1 _E X archive	. Contributors	@ Packages		TEX-Archiv	2. Beitragende	Pakete
Here you can find the raw files and directories of the TeX archive.	Here you can find the contributors by their name.	Here you can find the packages by their name.		Hier findest du die unbearbeiteten Dateien und Verzeichnisse des T ₆ X-Archivs.	Hier findest du die Beitragenden nach ihrem Namen.	Hier findest du Pakete nach ihrem Namen.
		S				§ 🚺
102024 CTAN TENN 🔤 🖓 🖓 ÖSSEACT 📀 PRIVACY	72 Li	Censes O Abour		©2024 CTAN-TEAM 🕮 IMPRESSUM 🦁 DATEN	SCHUTZ	O Útea

(a) A page in English...

(b) ... and in German

Figure 3.1: The same page in different languages

- **Note** that not each text is available in all languages. The English text should be present and used as fallback if a translation is missing.
- **Note** that some pages are not translated. They are presented in English only. This is especially the case for pages where a communication with the CTAN team is included. The official communication language is English and this should be enforced.



(a) The settings for English...

(b) ... and for German



3.1 Selecting a language

Stories

As American user (Emma Taylor)

I want to set the language for the CTAN site to "English"

In order to understand what's written on the pages.

As German speaking user (Leo Urbanski)

I want to set the language for the CTAN site to "German"

In order to easier understand what's written on the pages.

Explanations

The settings of the user preferences can be found in the settings menu at the upper right corner of every normal page (see figure 3.2). There the language can be selected.

The currently active language is disabled. It can not be selected any more.

The settings are stored in the browser. The application server has no knowledge of this setting.

Acceptance criteria

- Given I am on any page and I have opened the settings menu Then there is an entry to switch to the language for each supported language and the currently active language is disabled and all other languages can be selected.
- Given I am on any page which is not English-only and I have opened the settings menu When I select a selectable language Then this language becomes the currently active language and all labels, titles, and static texts on the page are shown in this language.
- 3. Given I am on any page and a supported language is active When I navigate to another page which is not English-only Then this language is still active and all labels, titles, and static texts on the page are shown in this language.

4 A11Y: Accessibility

Considering accessibility means that we consider that or users may have physical restrictions. Take those into consideration also helps to make the Web site more user friendly for all users.

Many considerations and issues to consider can be found in the document "Web Content Accessibility Guidelines" [WCA24]. In the following sections we will review the success criteria and analyse how they are met by the CTAN site.

4.1 Perceivable

Guideline 1.1 Text Alternatives

Provide text alternatives for any non-text content so that it can be changed into other forms people need, such as large print, braille, speech, symbols or simpler language. [WCA24]

 \checkmark Most images and icon are purely decorative. They can even be switched off in the settings menu. The images needed for the understanding have an alt text describing the content.

§ 1.1.1 Non-text Content (Level A)

All non-text content that is presented to the user has a text alternative that serves the equivalent purpose, except for the situations listed below.... [WCA24]

missing

Guideline 1.2 Time-based Media

Provide alternatives for time-based media. [WCA24]

§ 1.2.1 Audio-only and Video-only (Prerecorded) (Level A)

For prerecorded audio-only and prerecorded video-only media, the following are true, except when the audio or video is a media alternative for text and is clearly balled as such... [WCA24]

✓ There is no such content.

§ 1.2.2 Captions (Prerecorded) (Level A)

Captions are provided for all prerecorded audio content in synchronised media, except when the media is a media alternative for text and is clearly labeled as such. [WCA24]



An alternative for time-based media or audio description of the prerecorded video content is provided for synchronized media, except when the media is a media alternative for text and is clearly labeled as such. [WCA24]

§ 1.2.4 Captions (Live) (Level AA)

Captions are provided for all live audio content in synchronized media. [WCA24]

✓ There is no live audio content.

§ 1.2.5 Audio Description (Prerecorded) (Level AA)

Audio description is provided for all prerecorded video content in synchronized media. [WCA24]

✓ There is no prerecorded video content.

§ 1.2.6 Sign Language (Prerecorded) (Level AAA)

Sign language interpretation is provided for all prerecorded audio content in synchronized media. [WCA24]

✓ There is no prerecorded audio content.

§ 1.2.7 Extended Audio Description (Prerecorded) (Level AAA)

Where pauses in foreground audio are insufficient to allow audio descriptions to convey the sense of the video, extended audio description is provided for all prerecorded video content in synchronized media. [WCA24]

✓ There are no videos.

§ 1.2.8 Media Alternative (Prerecorded) (Level AAA)

An alternative for time-based media is provided for all prerecorded synchronized media and for all prerecorded video-only media. [WCA24]

✓ There is no such content.

missing

missing

§ 1.2.9 Audio-only (Live) (Level AAA)

An alternative for time-based media that presents equivalent information for live audio-only content is provided. [WCA24]

✓ There is no such content.

Guideline 1.3 Adaptable

Create content that can be presented in different ways (for example simpler layout) without losing information or structure. [WCA24]

§ 1.3.1 Info and Relationships (Level A)

Information, structure, and relationships conveyed through presentation can be programmatically determined or are available in text. [WCA24]



missing

missing

§ 1.3.2 Meaningful Sequence (Level A)

When the sequence in which content is presented affects its meaning, a correct reading sequence can be programmatically determined. [WCA24]

§ 1.3.3 Sensory Characteristics (Level A)

Instructions provided for understanding and operating content do not rely solely on sensory characteristics of components such as shape, color, size, visual location, orientation, or sound. [WCA24]

§ 1.3.4 Orientation (Level AA)

Content does not restrict its view and operation to a single display orientation, such as portrait or landscape, unless a specific display orientation is essential. [WCA24]

 \checkmark Responsive design is a design goal (cf. section 2.1). This has a consequence that the layout is automatically adapted to the view size and orientation.

§ 1.3.5 Identify Input Purpose (Level AA)

The purpose of each input field collecting information about the user can be programmatically determined when:

- The input field serves a purpose identified in the Input Purposes for user interface components section; and
- The content is implemented using technologies with support for identifying the expected meaning for form input data.

WCA24



83

§ 1.3.6 Identify Purpose (Level AAA) In content implemented using markup languages, the purpose of user interface components, icons, and regions can be programmatically determined. [WCA24] nissing Guideline 1.4 Distinguishable Make it easier for users to see and hear content including separating foreground from background. [WCA24] § 1.4.1 Use of Color (Level A) Color is not used as the only visual means of conveying information, indicating an action, prompting a response, or distinguishing a visual element. [WCA24] missing § 1.4.2 Audio Control (Level A) If any audio on a web page plays automatically for more than 3 seconds, either a mechanism is available to pause or stop the audio, or a mechanism is available to control audio volume independently from the overall system volume level. [WCA24] missing § 1.4.3 Contrast (Minimum) (Level AA) The visual presentation of text and images of text has a contrast ratio of at least 4.5:1, except for the following: **Large Text** Large-scale text and images of large-scale text have a contrast ratio of at least 3:1; Incidental Text or images of text that are part of an inactive user interface component, that are pure decoration, that are not visible to anyone, or that are part of a picture that contains significant other visual content, have no contrast requirement. **Logotypes** Text that is part of a logo or brand name has no contrast requirement. [WCA24] missing § 1.4.4 Resize Text (Level AA) Except for captions and images of text, text can be resized without assistive technology up to 200 percent without loss of content or functionality. [WCA24] missing

§ 1.4.5 Images of Text (Level AA)

If the technologies being used can achieve the visual presentation, text is used to convey information rather than images of text except for the following:

- **Customizable** The image of text can be visually customized to the user's requirements;
- **Essential** A particular presentation of text is essential to the information being conveyed.

WCA24

§ 1.4.6 Contrast (Enhanced) (Level AAA)

The visual presentation of text and images of text has a contrast ratio of at least 7:1, except for the following:

- **Large Text** Large-scale text and images of large-scale text have a contrast ratio of at least 4.5:1;
- **Incidental** Text or images of text that are part of an inactive user interface component, that are pure decoration, that are not visible to anyone, or that are part of a picture that contains significant other visual content, have no contrast requirement.

Logotypes Text that is part of a logo or brand name has no contrast requirement.

[WCA24]

§ 1.4.7 Low or No Background Audio (Level AAA)

For prerecorded audio-only content that (1) contains primarily speech in the foreground, (2) is not an audio CAPTCHA or audio logo, and (3) is not vocalization intended to be primarily musical expression such as singing or rapping, at least one of the following is true:

No Background The audio does not contain background sounds.

Turn Off The background sounds can be turned off.

20 dB The background sounds are at least 20 decibels lower than the foreground speech content, with the exception of occasional sounds that last for only one or two seconds.

WCA24



§ 1.4.8 Visual Presentation (Level AAA)

For the visual presentation of blocks of text, a mechanism is available to achieve the following:

- Foreground and background colors can be selected by the user.
- Width is no more than 80 characters or glyphs (40 if CJK).
- Text is not justified (aligned to both the left and the right margins).

missing

missing

- Line spacing (leading) is at least space-and-a-half within paragraphs, and paragraph spacing is at least 1.5 times larger than the line spacing.
- Text can be resized without assistive technology up to 200 percent in a way that does not require the user to scroll horizontally to read a line of text on a full-screen window.

[WCA24]

§ 1.4.9 Images of Text (No Exception) (Level AAA)

Images of text are only used for pure decoration or where a particular presentation of text is essential to the information being conveyed. [WCA24]

§ 1.4.10 Reflow (Level AA)

Content can be presented without loss of information or functionality, and without requiring scrolling in two dimensions for:

- Vertical scrolling content at a width equivalent to 320 CSS pixels;
- Horizontal scrolling content at a height equivalent to 256 CSS pixels.

Except for parts of the content which require two-dimensional layout for usage or meaning. [WCA24]

§ 1.4.11 Non-text Contrast (Level AA)

The visual presentation of the following have a contrast ratio of at least 3:1 against adjacent color(s):

- **User Interface Components** Visual information required to identify user interface components and states, except for inactive components or where the appearance of the component is determined by the user agent and not modified by the author;
- **Graphical Objects** Parts of graphics required to understand the content, except when a particular presentation of graphics is essential to the information being conveyed.

[WCA24]



§ 1.4.12 Text Spacing (Level AA)

In content implemented using markup languages that support the following text style properties, no loss of content or functionality occurs by setting all of the following and by changing no other style property:

• Line height (line spacing) to at least 1.5 times the font size;

missing

missing

missing

- Spacing following paragraphs to at least 2 times the font size;
- Letter spacing (tracking) to at least 0.12 times the font size;
- Word spacing to at least 0.16 times the font size.

Exception: Human languages and scripts that do not make use of one or more of these text style properties in written text can conform using only the properties that exist for that combination of language and script. [WCA24]

missing

§ 1.4.13 Content on Hover or Focus (Level AA)

Where receiving and then removing pointer hover or keyboard focus triggers additional content to become visible and then hidden, the following are true:

- **Dismissible** A mechanism is available to dismiss the additional content without moving pointer hover or keyboard focus, unless the additional content communicates an input error or does not obscure or replace other content;
- **Hoverable** If pointer hover can trigger the additional content, then the pointer can be moved over the additional content without the additional content disappearing;
- **Persistent** The additional content remains visible until the hover or focus trigger is removed, the user dismisses it, or its information is no longer valid.

Exception: The visual presentation of the additional content is controlled by the user agent and is not modified by the author. [WCA24]

missing

4.2 Operable

Guideline 2.1 Keyboard Accessible

§ 2.1.1 Keyboard (Level A)

[WCA24]

§ 2.1.2 No Keyboard Trap (Level A)

[WCA24]

- § 2.1.3 Keyboard (No Exception) (Level AAA) [WCA24]
- § 2.1.4 Character Key Shortcuts (Level A) [WCA24]

Guideline 2.2 Enough Time

- § 2.2.1 Timing Adjustable (Level A) [WCA24]
- § 2.2.2 Pause, Stop, Hide (Level A) [WCA24]
- § 2.2.3 No Timing (Level AAA) [WCA24]
- § 2.2.4 Interruptions (Level AAA) [WCA24]
- § 2.2.5 Re-authenticating (Level AAA) [WCA24]
- § 2.2.6 Timeouts (Level AAA) [WCA24]
- **Guideline 2.3 Seizures and Physical Reactions**
- § 2.3.1 Three Flashes or Below Threshold (Level A) [WCA24]
- § 2.3.2 Three Flashes (Level AAA) [WCA24]
- § 2.3.3 Animation from Interactions (Level AAA) [WCA24]
- Guideline 2.4 Navigable
- § 2.4.1 Bypass Blocks (Level A) [WCA24]

- § 2.4.2 Page Titled (Level A) [WCA24]
- § 2.4.3 Focus Order (Level A) [WCA24]
- § 2.4.4 Link Purpose (In Context) (Level A) [WCA24]
- § 2.4.5 Multiple Ways (Level AA) [WCA24]
- § 2.4.6 Headings and Labels (Level AA) [WCA24]
- § 2.4.7 Focus Visible (Level AA) [WCA24]
- § 2.4.8 Location (Level AAA) [WCA24]
- § 2.4.9 Link Purpose (Link Only) (Level AAA) [WCA24]
- § 2.4.10 Section Headings (Level AAA) [WCA24]
- § 2.4.11 Focus Not Obscured (Minimum) (Level AA) [WCA24]
- § 2.4.12 Focus Not Obscured (Enhanced) (Level AAA) [WCA24]
- § 2.4.13 Focus Appearance (Level AAA) [WCA24]

Guideline 2.5 Input Modalities

- § 2.5.1 Pointer Gestures (Level A) [WCA24]
- § 2.5.2 Pointer Cancellation (Level A) [WCA24]
- § 2.5.3 Label in Name (Level A) [WCA24]
- § 2.5.4 Motion Actuation (Level A) [WCA24]
- § 2.5.5 Target Size (Enhanced) (Level AAA) [WCA24]
- § 2.5.6 Concurrent Input Mechanisms (Level AAA) [WCA24]
- § 2.5.7 Dragging Movements (Level AA) [WCA24]
- § 2.5.8 Target Size (Minimum) (Level AA) [WCA24]

4.3 Understandable

Guideline 3.1 Readable

- § 3.1.1 Language of Page (Level A) [WCA24]
- § 3.1.2 Language of Parts (Level AA) [WCA24]

- § 3.1.3 Unusual Words (Level AAA) [WCA24]
- § 3.1.4 Abbreviations (Level AAA) [WCA24]
- § 3.1.5 Reading Level (Level AAA) [WCA24]
- § 3.1.6 Pronunciation (Level AAA) [WCA24]
- Guideline 3.2 Predictable
- § 3.2.1 On Focus (Level A) [WCA24]
- § 3.2.2 On Input (Level A) [WCA24]
- § 3.2.3 Consistent Navigation (Level AA) [WCA24]
- § 3.2.4 Consistent Identification (Level AA) [WCA24]
- § 3.2.5 Change on Request (Level AAA) [WCA24]
- § 3.2.6 Consistent Help (Level A) [WCA24]
- Guideline 3.3 Input Assistance
- § 3.3.1 Error Identification (Level A) [WCA24]

- § 3.3.2 Labels or Instructions (Level A) [WCA24]
- § 3.3.3 Error Suggestion (Level AA) [WCA24]
- § 3.3.4 Error Prevention (Legal, Financial, Data) (Level AA) [WCA24]
- § 3.3.5 Help (Level AAA) [WCA24]
- § 3.3.6 Error Prevention (All) (Level AAA) [WCA24]
- § 3.3.7 Redundant Entry (Level A) [WCA24]
- § 3.3.8 Accessible Authentication (Minimum) (Level AA) [WCA24]
- § 3.3.9 Accessible Authentication (Enhanced) (Level AAA) [WCA24]

4.4 Robust

Guideline 4.1 Compatible

§ 4.1.2 Name, Role, Value (Level A)

For all user interface components (including but not limited to: form elements, links and components generated by scripts), the name and role can be programmatically determined; states, properties, and values that can be set by the user can be programmatically set; and notification of changes to these items is available to user agents, including assistive technologies. [WCA24]

§ 4.1.3 Status Messages (Level AA)

In content implemented using markup languages, status messages can be programmatically determined through role or properties such that they can be presented to the user by assistive technologies without receiving focus. [WCA24]

5 The cover page

Story

As T_EX user (Theodora Usher)

I want to visit the entry point for the CTAN site

In order to navigate to further pages from there.

Explanations

The cover page (or home page) is the central start page for many users. Thus it has to serve many requirements.

The cover page contains several tiles. Each of these tiles is devoted to another topic. Thus users entering the site on this page will hopefully find something interesting for them.

The title tile (see section 5.1)

The T_EX tile (see section 5.2)

The upload tile (see section 5.4)

The DVD tile (see section 5.5)

The distributions tile (see section 5.6)

The CTAN ann tile (see section 5.3)

The statistics tile (see section 5.7)

The 'Did You Knowt' tile (see section 5.8)

The wanted tile (see section 5.9)

Acceptance criteria

- Given I am on the cover page Then the URL path shown in the browser is / and the favicon is the CTAN icon.
- 2. Given I am on the cover page and the language is English Then the page title is "CTAN Dashboard".



Figure 5.1: The cover page

- 3. Given I am on the cover page and the language is German Then the page title is "CTAN-Dashboard".
- 4.



5.1 The title tile

Comprehensive T _E X Archi	Pristoner approved to the Network	nnd beend
5832 packages provided by 2669 contributors	Packages are uploaded here. Afterwards they can be downloaded immediately and installed. Additionaly they find	
The Comprehensive $T_{\!E}\!X$ Archive Network (CTAN) is the central place to find all kinds of material around $T_{\!E}\!X$ and friends.	their way into the T _E X distributions. Mirror servers distributed across the world offer the contents for download. CTAN is run by volunteers as non-profit service.	
a N	*	

Figure 5.2: The title tile

Story

As beginner of the CTAN site (Abel Begger)

I want to read where we are and what is all about

 ${\it In~order~to}$ decide whether I want to continue exploring the site.

Explanations

The title tile shows the name of the site, a short abstract, and the CTAN lion drawing. The appearance of the title tile is shown in figure 5.2.

Acceptance criteria

- 1. Given I am on the cover page (see section 5) Then I can see the title tile and the title is "Comprehensive T_EX Archive Network".
- Given I am on the cover page (see section 5) and I can see the title tile When I click on the lion drawing on the title tile

Then I am navigated to the lion page (/help/lion).

- 3. Given I am on the cover page (see section 5) and I can see the title tile When I click on the "more" button on the title tile Then I am navigated to the CTAN page (/help/ctan).
- 4.

missing acceptance criteria

5.2 The TEX tile



Figure 5.3: The T_EX tile

Story

As beginner of the CTAN site (Abel Begger)

I want to read where we are and what is all about

In order to decide whether I want to continue exploring the site.

Explanations

The $T_{\!E\!}\!X$ tile shows a short text about $T_{\!E\!}\!X$ and a link to more.

The appearance of the title tile is shown in figure 5.3.

Acceptance criteria

- 1. Given I am on the cover page (see section 5) Then I can see the T_EX tile and the title is "T_EX".
- 2. Given I am on the cover page (see section 5) and I can see the T_EX tile When I click on the "more" button on the T_EX tile Then I am navigated to the CTAN page (/help/tex).
- 3.

missing acceptance criteria

5.3 The CTAN-ann tile

Story

As TFX user (Theodora Usher)

I want to see what's new on CTAN

In order to see whether I can extend the repertoire of the packages I use.

Explanations

The CTAN ann tile has the major task of showing a few subjects of announcements as teaser to explore more.

The appearance of the CTAN ann tile is shown in figure 5.4.

Acceptance criteria

- Given I am on the cover page (see section 5) and the selected language is English. Then I can see the ctan-ann tile and the title is "Announcements on CTAN announce".
- 2.



Figure 5.4: The CTAN ann tile



Figure 5.5: The upload tile

5.4 The upload tile

Story

As package author (Peter Aumich)*I want* to navigate to the upload page*In order to* submit a new package to CTAN.

Explanations

The upload tile has the major task of allowing to navigate to the upload page.

The appearance of the upload tile is shown in figure 5.5.

Acceptance criteria

 Given I am on the cover page (see section 5) Then I can see the upload tile and the title is "Upload a package".

- Given I am on the cover page (see section 5) and I can see the upload tile When I click on the "go to the upload form" button on the upload tile Then I am navigated to the upload page (/upload).
- 3.

missing acceptance criteria

5.5 The DVD tile

	T _E X	Collecti	on 2023			
	DVD	Alter and a				
	dante de					
	GUTenberg gutenberg-asso.fr	MIKTEX Bits for MS Windows, GNUILinux, macOS	TEX Live TeX for GNULLINUX, MARCOS, Unix, and MSWindows			
	TEX USERS CROUP tug.org	MacTEX TeX for macOS including full TeX Live	CTAN Comportensive TeX Acchive Network snapshot			
		Eds Karl Berry (R/KLive) + I Manfred Lotz (CTAN) + C	urs: Richard Koch (MacTgK) hristian Schenk (MiKTgK)			
• CTAN on DVD						
The contents of CTAN and ready to run T _E X systems can be obtained on DVD.						
The DVD is produced yearly in an updated edition.						
The DVD is distributed to the members of many $\underline{T}_E X$ <u>user groups</u> . Consider becoming a member of a user group if you want to receive it.						

Figure 5.6: The DVD tile $% \left({{{\rm{DVD}}}} \right)$

Story

As TEX user (Theodora Usher)*I want* to see whether I can get the content of CTAN on DVD*In order to* archive historical versions of packages.

Explanations

The DVD tile has the major task of pointing for the receiving of a DVD to the LUGs.

The appearance of the DVD tile is shown in figure 5.6.

The DVD tile can be controlled with the tile.dvd feature (see section 2.18.

Acceptance criteria

- Given I am on the cover page (see section 5) and the feature cover.dvd is enabled Then I can see the dvd tile and the title is "CTAN on DVD".
- Given I am on the cover page (see section 5) and the feature cover.dvd is disabled Then I don't see the DVD tile on the page.
- 3.

5.6 The distributions tile

Story

As beginner of the CTAN site (Abel Begger)

I want to read which distributions I can get and where from

In order to decide on a distribution for my use cases.

Explanations

The distributions tile shows a short text about distributions and a link to them. Since several distributions exist they are presented in a carousel metaphor.

The appearance of the distributions tile is shown in figure 5.7.

Acceptance criteria

- 1. Given I am on the cover page (see section 5) Then I can see the distributions tile and the title is "Download a T_{EX} distribution".
- 2.

missing acceptance criteria

missing acceptance criteria



(c) $MiKT_EX$

(d) $MacT_EX$

Figure 5.7: The distributions tile

5.7 The statistics tile



Figure 5.8: The statistics tile

Story

Explanations

The statistics tile has the major task of showing a chart of uploads. The appearance of the CTAN ann tile is shown in figure 5.8.

Acceptance criteria

 Given I am on the cover page (see section 5) and the selected language is English. Then I can see the statistics tile and the title is "Activity on CTAN".

2.

5.8 The "Did you know" tile



Figure 5.9: The did-you-know tile

Story

Explanations

The did-you-know tile shows randomly short teasers of topics. The appearance of the "Did you know" tile is shown in figure 5.9.

Acceptance criteria

- Given I am on the cover page (see section 5) and the selected language is English. Then I can see the did-you-know tile and the title is "Activity on CTAN".
- 2.

missing acceptance criteria



Your help is required

CTAN is run by volunteers. The tasks are time-consuming. Thus many hands are appreciated to get things done. On the other side some familiarisation with the internal processes is required. Thus a long-term commitment can help us to support continuity and minimise the training efforts.

You should not be afraid that very deep knowledge of $T_E X$ or $LAT_E X$ or existing packages is required. This is not the case. We manage the submission of packages. We do not modify them in any way.

The CTAN team is always looking for more help. Do you think that this is a job for you? Then contact us at ctan@ctan.org and let us talk about it.

Figure 5.10: The Wanted tile

5.9 The 'Wanted' tile

Story

As Web master (Waclaw Munn)

I want to publish an announcement for help on the CTAN site *In order to* reach many users of CTAN.

Explanations

The wanted tile has the major task of requesting help from the community for the CTAN team.

The appearance of the wanted tile is shown in figure 5.10.

The wanted tile can be controlled with the tile.wanted feature (see section 2.18.

Acceptance criteria

- Given I am on the cover page (see section 5) and the feature cover.wanted is enabled Then I can see the wanted tile and the title is "Your help is required".
- 2. Given I am on the cover page (see section 5) and the feature cover.wanted is disabled Then I don't see the wanted tile on the page.
- 3.

missing acceptance criteria



6 The Catalogue browse page

Figure 6.1: The browse navigation page

Story

As T_EX user (Theodora Usher)

I want to see what data can be found in the catalogue

In order to see how I can find the best way to something I am looking for.

Explanations

The browse page is an intermediary page which can be used for navigation. The page is not linked in the navigation area.

Acceptance criteria

- 1. Given I am on the browse page Then the URL path shown in the browser is /browse and the favicon is the CTAN icon.
- 2. Given I am on the browse page and the language is English Then the page title is "Browse CTAN".
- 3. Given I am on the browse page and the language is German Then the page title is "CTAN browsen".
- 4.

missing acceptance criteria
7 The tex-archive page

7.1 The listing

٩				Q 🚊 :
♠ ♠ ▲ Q	■ tex-archive			
• ⊘ ■ **	This is the root of the Comprehen	sive T _E X Archive Network direct	ory tree.	□ tds
≌ ●	 G. bibliography CTAN.sites dviware FILES.byname FILES.last07days fonts 	 preprint help index.html indexing info install language 	 obsolete README.mirrors README.structure README.uploads support systems 	 timestamp upload.html usergrps web
	©2025 CTAN TEAM 🕫 Contact 💡	Privacy		📾 Feedback 🛛 About

Figure 7.1: The top-level directory

Story

As package author (Peter Aumich)

 ${\it I}$ want to see which sections exist in the $T_{E\!}X$ archive

 ${\it In~order~to}$ find the right place for my new package.

٩	CTAN	୍	ene gene	÷
f				
e	and a standard and the second statement of the second		-	
<u>II</u>			111	
۹				
2	C tex-archive > 6 biblio			- 1
±	🖻 biblio			
Ø	Systems for maintaining and presenting bibliographies within documents typeset using $T_E X$.			
<u>.</u>				
	🗖 biber 🗖 bibtex 🗖 crosstex 🗖 tib			
0				-
(j)	©2025 CTAN TEAM @ CONTACT © PRIVACY @ Fe	EDBACK	© Ав	оит

Figure 7.2: The biblio directory

Explanations

The archive pages can be used to view the directories of the tex-archive directory tree.

The appearance of the top level page is shown in figure 7.1.

The page contains a card as usual. When the settings enables it then a image is shown at the top. Below the image a breadcrumb is shown. It allows to navigate to the parent directories. The title is the name of the current directory. If a description is present then it is presented next.

Finally the content is shown in various tabs. These tabs are mostly optional. The tabs are described in the next sections.

The breadcrumb is also illustrated in the directory **biblio** as shown in figure 7.2.

Acceptance criteria

- Given I am on a tex-archive page Then the URL path shown in the browser is /tex-archive/«path» where «path» is the path in the tex-archive directory tree and the favicon is the CTAN icon.
- 2. Given I am on a tex-archive page for the path **«path»** and the language is German or English Then the page title is "CTAN: «path»".
- 3.

7.2 The "files" tab

	🖻 tex-archive					
:.	This is the root of the Comprehensive T _E X Archive Network directory tree.					
0	Files Read Me					
2 Q	🗖 biblio	D graphics	🗖 macros	🗖 tds		
2	S bibliography	🗖 help	D obsolete	🗋 timestamp		
±	CTAN.sites	index.html	G README.mirrors	upload.html		
0	🗖 dviware	indexing	README.structure	usergrps		
	FILES.byname	🖿 info	README.uploads	🗖 web		
Ģ	FILES.last07days	🗋 install	🗖 support			
Ø	🗖 fonts	🗋 language	Systems			
*						
2						

Figure 7.3: The files tab

Story

As T_EX user (Theodora Usher)

I want to see which files and directories are present in a directory of the T_EX archive In order to find the files I am looking for.

Explanations

The files tab is mandatory. It shows the files and directories in the current directory. The various file types are visualised with different icons.

The files and directories are sorted alphabetically where the case is ignored.

Acceptance criteria

1.



Figure 7.4: The readme tab

7.3 The "readme" tab

Story

As T_EX user (Theodora Usher)

I want to read the content of the readme file without downloading it *In order to* get the information fast.

Explanations

The "readme" tab is optional. It is only shown if a readme file is present. The following files are considered until one file is found:

README is treated as a text file README.md is treated as Markdown file index.html is treated as HTML file index.htm is treated as HTML file README.txt is treated as text file READ_ME is treated as text file

Acceptance criteria

7.4 The "package" tab

U CIAN	୍	GENE	:
and a south the all the south the south		TT IT IT	_
□ tex-archive → □ biblio → □ bibtex → □ utils → 🖻 bible			
👁 hible – BiBl F			
A BißT _E X library editor.			
D FILES & PACKAGE ± DOWNLOAD			
Package summary			
A Windows-32 application for maintaining $BiBT_{\!E\!X}$ databases.			
Version 0.99			
Maintainer & Kal Schreiber			
License $free license not otherwise listed$			
Topic /> bibtex-util			
To package			
		O ARC	
	CLAN	<pre>C CAN</pre>	CIAN Con Contended of the contended of t

Figure 7.5: The package tab

Story

As LAT_EX user (Leo Urbanski)

I want to get the information about a package if the current directory is the top-level directory of a package

In order to get the information fast.

Explanations

If the current directory is the top-level directory of a package then the package tab is present.



1.		missing
	L	acceptance
		criteria

7.5 The "download" tab



Figure 7.6: The download tab

Story

As LATEX user (Leo Urbanski)

I want to get the information about a package if the current directory is the top-level directory of a package how to install the files in this directory.

In order to get the package installed and usable.

missing explanations

missing explanations

Explanations

Acceptance criteria

1.	missing
	acceptance
	criteria
	<

8 The packages

8.1 The package data

The data model for the packages is depicted in figure 8.1.

8.1.1 The class Package

- **key** is the unique identifier for the package. It will be used as part of the URL for the package. Thus it consists mainly of letters, digits and the minus sign.
- **name** contains the optional name of the package. It not present then the key is used instead.

versionNumber optionally contains the version number.

versionDate optionally contains a version date

ctanPath contains the path on CTAN where the package is contained. Usually this is a directory.

home optionally contains a list of links to the home page of the package.

bugs optionally contains a list of links to communication channels for bug reports.

support optionally contains a list of links to communication channels for support requests.

announce optionally contains a list of links to communication channels for announcements about the package.

repository optionally contains a list of source repositories.

- **development** optionally contains a list of links to communication channels for development topics about the package.
- **ctanFile** contains the indicator that the package consists of a single file only. This should be used sparsely since it is assumed that a package lives in a directory and contains some source files and documentation.

ctanZip contains an indicator that a ZIP archive for the whole package exists.

texlive optionally contains the name of the package in T_{EX} live.

tlContrib optionally contains the name of the package in T_EX live contib.

miktex optionally contains the name of the package in $MiKT_EX$.

mactex optionally contains the name of the package in MacT_EX.

extraIndex optionally contains extra text to be indexed. This is meant for augmenting



Figure 8.1: The data model for packages

the search index with terms not contained in the package files.

installPath optionally contains the install path for the package.

- In addition the following associations are present:
- **captions** leads to the associated captions. The captions are in fact a mapping from a language to the text (see section 8.1.3).
- **copyrights** leads to the associated copyright items (see section 8.1.2).
- **descriptions** leads to the associated package descriptions. The captions are in fact a mapping from a language to the text (see section 8.1.4).
- **docs** leads to the associated package documentations. An arbitrary number of documentations can be linked (see section 8.1.5).
- **licenses** leads to the associated licenses. An arbitrary number of licenses can be linked (see section 11.1.1).
- **topics** leads to the associated Topics. An arbitrary number of topics can be linked (see section 10.1.1).
- **uploaders** leads to the associated uploaders. An arbitrary number of uploaders can be linked (see section 8.1.6).

8.1.2 The class PackageCopyright

The copyright information about a package is kept in the class PackageCopyright. A package may have several copyright items. In this case the time ranges are distinct.

year contains a single year or a range of years for which the copyright holds. This String can be as long as 64 characters.

owner contains the copyright holder. This String can be as long as 255 characters.

8.1.3 The class PackageCaption

The captions for packages are stored in the class PackageCaption. The captions are language-specific.

lang contains the ISO language code of the description.

caption contains the text of the caption. It is HTML-formatted. This String can be as long as 512 characters.

8.1.4 The class PackageDescription

The descriptions for packages are stored in the class PackageDescription. The descriptions are language-specific.

lang contains the ISO language code of the description. **description** contains the description text.

8.1.5 The class PackageDoc

The class PackageDoc contains a reference to a documentation for a package. Such an item is a link to a documentation file with some additional meta data for it.

href contains the link to the documentation file.

title contains the title of the documentation file.

details contains a description of the details of the document.

lang optionally contains the ISO language code for the document.

authors optionally contains the authors of the document.

pages optionally contains the number of pages in the document.

8.1.6 The class UploaderRef

The uploaders for a package are recorded in order to determine whether an upload is legitimate.

active contains an indicator that the uploader is still active.

last contains the date of the last upload.

In addition the following associations are present:

author leads to the associated author (see section 9.1.1). The multiplicity is 1.

pkg leads to the associated package (see section 8.1.1). The multiplicity is 1.

8.1.7 The class PackageAlias

A package alias is another name or key for a package. The user is redirected to the original package with its help.

This can for instance be used to preserve old links when a package is renamed,

key contains an indicator that the uploader is still active.

name contains the date of the last upload

In addition the following association is present:

pkg leads to the associated package (see section 8.1.1). The multiplicity is 1.

8.2 The package ratings data



Figure 8.2: The data model for package ratings

The data model for the package ratings is depicted in figure 8.2.

8.2.1 The class Rating

User can put ratings on packages. Those ratings can be evaluated for a package. They also can be evaluated for a single user. A rating has the following attributes:

rating contains the number for the rating level. The following values are supported:

value	meaning
1	poor
2	flawed
3	good
4	very good
5	excellent

expertise contains the classification of the expertise of the voter. The following values are supported:

value	meaning
1	I have just heard of the package
2	I have evaluated the package
3	I am a casual user of the package
4	I am a regular user of the package
5	I am an expert for the package

comment contains the optional comment. This String can be as long as 1024 characters. **modified** contains the date of the last modification.



Figure 8.3: The empty packages page

8.3 The packages list page

Story

As experienced LATEX user (Ellie Larch)

 \boldsymbol{I} want to see if I can find an interesting new package

In order to improve my ${\rm L\!AT}_{\!E\!}X$ repertoire.

Explanations

The packages page can be used to search for a package by name. As shortcut the first letter can be selected directly with a button. The empty page is shown in figure 8.3.

The results can be presented as tiles. An example is shown in figure 8.4. The tiles are displayed as cards. The cards are ordered in lines – if there is enough space.

The results can also be presented as table. An example is shown in figure 8.5. The table contains the icon, the name, and the description.

Any package is marked if it is obsolete.

Acceptance criteria

 Given I am on the packages page Then the URL path shown in the browser is /pkg

CTAN	Q 🚊 :			
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z				
The software is organised in packages. Packages can be found easily with the filter functionality on this page.Here you can look for them. The filtering is case-insensitive. Those packages are found where the name begins with the filter term.				
T b				
Continue typing to filter more.				
416 matching packages have been found.				
© b1encoding	Ø babel			
The package characterises and defines the author's B1 encoding for use with LATEX when typesetting things using his Bookhands fonts.	This package manages culturally-determined typographical (and other) rules for a wide range of languages. A document may select a single language to be supported, or it may select several, in which case the document may switch from one language to another in a variety of ways.			
	Babel uses contributed configuration files that provide the detail			
🕲 babel-albanian	Dabel-azerbaijani			
The package provides support for typesetting Albanian (as part of	This is the babel style for Azerbaijani.			
the babel system).	This language poses special challenges because no "traditional" font encoding contains the full character set, and therefore a mixture must be used (e.g., T2A and T1).			
	This package is compatible with Unicode engines (LuaT _E X, $X_{3T_E}X$), which are very likely the most convenient way to write Azerbaijani			
🎕 babel-bahasa	🕸 babel-basque			
The bundle provides two sets of language typesetting support, for Bahasa Indonesia and Bahasa Malaysia.	r The package establishes Basque conventions in a document.			
It has now been split up into and succeeded by the babel- indonesian and the babel-malay package.				
©2025 CTAN TEAM 🕫 CONTACT 🔮 PRIVACY				

Figure 8.4: The packages page with tiles

			CTAN	Q A
2	A	B C D E F G	H I J K L M N O P Q R S T U V W X Y Z	
⊥ ⊘	Ø	Packages		
	The easi	software is organised in p ly with the filter functiona	ackages. Packages can be found Here you can look for them. The filtering i lity on this page. packages are found where the name begin	s case-insensitive. Those ns with the filter term.
°≎	416 m	Continue typing to filter more.	nd.	
		Name	Description	
	٩	b1encoding	The package characterises and defines the author's B1 encoding for use with ${\mathbb E} T_{E^2}$ using his Bookhands fonts.	when typesetting things
			This package manages culturally-determined typographical (and other) rules for a A document may select a single language to be supported, or it may select severa document may switch from one language to another in a variety of ways.	wide range of languages. I, in which case the
	٢	babel	Babel uses contributed configuration files that provide the detail of what has to b Included is also a set of ini files for about 200 languages.	e done for each language.
			Many language styles work with pdfl&T _E X, as well as with X ₃ &T _E X and Lual&T _E X, out o with plain formats.	of the box. A few even work
	٩	babel-albanian	The package provides support for typesetting Albanian (as part of the babel syste	m).
	Ŷ	babel-azerbaijani	This is the babel style for Azerbaijani. This language poses special challenges because no "traditional" font encoding cor and therefore a mixture must be used (e.g., T2A and T1).	ntains the full character set,
			This package is compatible with Unicode engines (LuaTeX, XJTeX), which are very lik way to write Azerbaijani documents.	ely the most convenient.
	62	babel-bahasa	The bundle provides two sets of language typesetting support, for Bahasa Indone	sia and Bahasa Malaysia.
	~		It has now been split up into and succeeded by the babel-indonesian and the bab	el-malay package.
	Ø	babel-basque	The package establishes basque conventions in a document.	
	Ø	babel-belarusian	The package provides support for use of Babel in documents written in Belarusian	1.
	©202	CTAN TEAM 🕫 CONTACT		ABOUT

Figure 8.5: The packages page with a table

and the favicon is the CTAN icon.

- 2. Given I am on the packages page and the language is English Then the page title is "Packages".
- 3. Given I am on the packages page and the language is German Then the page title is "Pakete".
- 4.

8.4 The package page

8.4.1 The abstract tab



Figure 8.6: The abstract tab of the package page

Story

As T_EX user (Theodora Usher) *I* want to read a short teaser about a package *In order to* decide whether I want to try it.

Explanations

The abstract tab shows the abstract text for the package. The appearance of the abstract tab can be seen in figure 8.6.

The abstract tab is only present if the abstract text is present and not blank.

Acceptance criteria

- 1. Given I am on the packages page Then the URL path shown in the browser is /pkg/<pkg> and the favicon is the CTAN icon.
- 2.

missing acceptance criteria

8.4.2 The summary tab

٩	
 ▲ ▲ ▲ 	BIBTEX
₽ 	BIBT _E X − Process bibliographies for LAT _E X, etc
Ø	🗉 Abstract 📕 Summary 🛝 Documentation 🏾 Announcements 💷 Rating 🛨 Install 🗟 Reference
Ш 	Summary
ē	Version 0.99d
۵	Maintainers & Oren Patashnik
•	Licenses A Knuth License
	Links A Home O Support Bugs Repository
	Topics 🗞 biblio
	<i>Contained in</i> T _E X Live as bibtex MiKT _E X as miktex-bibtex-bin-2.9
	©2024 CTAN TEAM ID CONTACT 🔮 PRIVACY O ABOUT

Figure 8.7: The summary tab of the package page

126

missing acceptance criteria

Story

As T_EX user (Theodora Usher)

I want to see the meta attributes of a package

In order to get version, authors, licenses, topics, and links to the package's communication channels.

Explanations

The summary tab shows several attributes of the package:

Version

Maintainer

Licenses

Links

Topics

Contained in

The appearance of the summary tab can be seen in figure 8.7.

Acceptance criteria

- Given I am on the packages page Then the URL path shown in the browser is /pkg/<pkg> and the favicon is the CTAN icon.
- 2.

8.4.3 The documentation tab

Story

As experienced IAT_EX user (Ellie Larch)

 ${\it I}$ want to get a list of references to the documentation of a package

 ${\it In~order~to}$ retrieve and read the documentation and use the package.

Explanations

The tab contains the list of documentations for the package. In addition a link to the sources is included.



Figure 8.8: The documentation tab of the package page

The appearance of the documentation tab can be seen in figure 8.8.

Acceptance criteria

- Given I am on the packages page Then the URL path shown in the browser is /pkg/<pkg> and the favicon is the CTAN icon.
- 2.

8.4.4 The announcements tab

Story

As T_EX user (Theodora Usher)

I want to see when a package has been updated

 ${\it In~order~to}$ rate the activity of a package development.

Explanations

The appearance of the announcements tab can be seen in figure 8.9.



missing acceptance criteria

missing explanations



Figure 8.9: The announcements tab of the package page

Acceptance criteria

- Given I am on the packages page Then the URL path shown in the browser is /pkg/<pkg> and the favicon is the CTAN icon.
- 2.

8.4.5 The ratings tab

Stories

As CTAN visitor (Chris Voigt)

I want to get an idea what others think about a package

In order to decide whether I should give it a try.

As Experienced T_EX user (Emma Taylor)

I want to rate a package

In order to share my experiences with other users.

As Experienced T_EX user (Emma Taylor)

I want to update my rating of a package

In order to share my extended experiences with other users.

Explanations

A rating has the following properties:

package

a rating is always associated to a package.

user

a rating is performed by a user.

rating

the rating is a number in the range 1 to 5.

comment

the comment is a textual description.

expertise

the expertise is a number in the range 0 to 4.

date

the date indicates when the rating has been added.

	CTAN •	GENE	
 ▲ ▲ ▲ ▲ <!--</th--><th>BIBTEX</th><th></th><th></th>	BIBTEX		
2 1	BIBT _E X – Process bibliographies for LAT _E X, etc		
Ø	🗉 Abstract 📕 Summary 🏝 Documentation 🚔 Announcements 💷 Rating 📩 Install 🖻 Reference		
Ш ж	E Ratings		
¢	Average: 3.58 of 36 votes		
*	**** 18 ***** 3		
	 □ My voting Rating and comment are recorded with the account. Thus you can update your rating or comment at any time. □ My rating ★ ★ ★ ★ ☆ very good ■ My comment ■ Iorem ipsum 		
	My knowledge I am a regular user of the package		
	GI SAVE × REMOVE		
	同 Community votes		
	lorem ipsum 2024-03-05 - <u>2. Gerd Neugebauer</u> ●●●○○		
	***** dolor sit 2021-06-13 •••••		
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Figure 8.10: The ratings tab of the package page $% \left({{{\mathbf{F}}_{\mathbf{r}}}_{\mathbf{r}}} \right)$

The ratings are shown as distribution. The number of ratings for the different number of stars. In addition the average is shown.

The voting I have submitted before is visible and can be modified and deleted. If I am not authenticated then I get a hint and can not submit a rating.

The list of ratings for the package is shown with number of stars, the comment, and the date. The user is shown if this feature is enabled by the user. The ratings are ordered reverse chronologically.

Acceptance criteria

- Given I am on the packages page Then the URL path shown in the browser is /pkg/<pkg> and the favicon is the CTAN icon.
- 2. _____

8.4.6 The install tab



Figure 8.11: The install tab of the package page

Story

As experienced T_EX user (Emma Taylor)

 \boldsymbol{I} want to see if I can find hints how to install a package

In order to get things running fast.

Explanations

The install tab should help the users to get started with a package. It should be as specific as possible. Nevertheless we can not provide an individual description for each and every package.

The appearance of the install tab can be seen in figure 8.11.

Acceptance criteria

- Given I am on the packages page Then the URL path shown in the browser is /pkg/<pkg> and the favicon is the CTAN icon.
- 2.

8.4.7 The reference tab

Story

As package author (Peter Aumich)

I want to get a BIBTEX reference for a package on CTAN

In order to reference it in my own package submission.

Explanations

The appearance of the reference tab can be seen in figure 8.12.

Acceptance criteria

 Given I am on the packages page Then the URL path shown in the browser is /pkg/<pkg> and the favicon is the CTAN icon.

2.





missing explanations

٩		
	BIBTEX Process bibliographics for MEV ats	
© ₩	D: online ▼	
∞0	<pre>@STRING{CTAN="Comprehensive Archive Network"} @online{ pkg:bibtex, author = {Oren Patashnik}, title = { Process bibliographies for , etc}, version = {0.99d}, abstract = { allows the user to store his citation data in generic form, while printing citations in a document in the form specified by a style, to be specified in the document itself (one often needs a citation-style package, such as \href{https://ctan.org/pkg/hatbib}{natbib}\cite{pkg:natbib} as well). itself is an ASCII-only program; there is, however, a \href{https://ctan.org/pkg/hbibtx8bit}{version that copes with 8-bit character sets}\cite{pkg:bibtex8bit}. However, 's facilities rapidly run out as one moves away from simple ASCII (for example, in the various national sorting rules for languages expressed in different parts of ISO-8859 - the "ISO Latin" series). For more flexibility, the user is urged to consider using \href{https://ctan.org/pkg/bibletex}{Bib\cite{pkg:bibletx}} with \href{https://ctan.org/pkg/bibletex}{Bib\cite{pkg:bibletx}} to typeset its output.}, urld = {https://ctan.org/pkg/bibletx} } urld te = {224.99-10}, organization = CTAW } </pre>	_
	©2024 CTAN TEAM /© CONTACT @ PRIVACY O A	оυт

Figure 8.12: The reference tab of the package page

9 The contributors

9.1 The contributors data



Figure 9.1: The data model for contributors

The data model for the contributors is depicted in figure 9.1.

9.1.1 The class Author

For historical reasons the base entity for a contributor is called "author". Initially only authors where managed. Nowadays also maintainers or groups are covered here.

- **key** is the unique identifier for the author. It will be used as part of the URL for the author. Thus it consists mainly of letters, digits and the minus sign.
- **givenname** contains the optional given name. For instance "Donald E." is the given name of Donald E. Knuth. For groups this part is usually undefined.
- **von** contains the optional von part of the name. For instance "von" is the von part of Johann Wolfgang von Goethe. For groups this part is usually undefined.

familyname contains the family name. For groups this contains the name of the group.

junior contains the optional appended junior part of the name. For instance "jr." is the junior part of Sammy Davis, Jr.

title contains the optional title. For instance "Dr." is the title of Dr. Rainer Schöpf.

pseudonym contains the pseudonym if the author requested that the real name should not be published. If this attribute is given then the other name parts are only shown internally.

died is the flag indicating that the person is deceased.

In addition the following associations are present:

gender leads to the gender of the person or the group indicator (see section 9.1.2).

emails leads to the author emails. An author can have an arbitrary number of email addresses (see section 9.1.4).

nameFormat leads to the name format of the person (see section 9.1.3).

9.1.2 The enumeration Gender

The gender is an enumeration. It is in fact a generalisation of the gender property. The following values are possible:

MALE the person is a man.

FEMALE the person is a woman.

GROUP the classification denotes for several persons.

9.1.3 The enumeration NameFormat

The attributes which constitute a name in Author are modelled following the scheme of BIBTEX [Pat88]. Here the name components "given name", "von part", "family name", and "junior part" are defined.

There are two ways how a name can be assembled and which part has to be considered as main part:

- **WESTERN** the scheme used in western countries and more. The sorting is performed mainly according to the family name.
- **CHINESE** the scheme used in china and other eastern countries. The sorting is performed mainly ac-coding to the given name.

9.1.4 The class AuthorEmail

The entity AuthorEmail contains an email address together with a flag to mark email addresses which should not be used any more. Thus old email addresses can be kept in the system and the information is not lost.

address contains the email address.

inactive contains the indicator that this email address is not usable any more.

9.1.5 The class AuthorRef

The association of an author to a package is represented with the class AuthorRef.

active contains the indicator that the author is still active for the package.

In addition the following associations are present:

author leads to the associated author (see section 9.1.1).

pkg leads to the associated package (see section 8.1.1).

9.2 The contributors list page

The T_EX Catalogue contains persons. They are called internally authors. In fact there are different kinds of persons contained:

- Package authors are the writers of one or more packages.
- Uploaders are persons who upload a package.
- Teams contain several persons.

Story

As experienced T_EX user (Emma Taylor)

I want to find a package for which I remember the author

In order to see if the package does what I need.

Explanations

The contributors page allows to select contributors by name search or by selecting an initial letter.

missing background



Figure 9.2: The empty contributors page

Acceptance criteria

- 1. Given I am on the contributors page Then the URL path shown in the browser is /author and the favicon is the CTAN icon.
- 2. Given I am on the contributors page and the language is English Then the page title is "Contributors".
- 3. Given I am on the contributors page and the language is German Then the page title is "Beitragende".
- 4.

9.3 A contributor page

Stories

As experienced T_EX user (Emma Taylor)

I want to find the packages to which an author has contributed

In order to see a cooperation has enough intersections in interests.



Figure 9.3: A contributor page

As package author (Peter Aumich)

I want that my preferences for using a pseudonym to be honoured

In order to avoid seeing my real name on the web pages.

Explanations

For each author a page is present which mainly lists the contributions of this author. The appearance of an author page can be seen in figure 9.3.

The author's name is only shown when no pseudonym has been defined. In such a case the real name is not revealed. Otherwise the real name is shown.

If the author is a user of the site and has confirmed this fact then a link to the user's public page (cf. section refchap:user-page) is provided.

The author's contributed packages are listed on this page. The list contains the name of the package, the caption and the topics assigned to the respective package.

Acceptance criteria

1. Given I am on the contributors page Then the URL path shown in the browser is /author and the favicon is the CTAN icon. 4.

- 2. Given I am on the contributors page and the language is English Then the page title is "Contributors".
- Given I am on the contributors page and the language is German Then the page title is "Beitragende".

10 The topics

10.1 The topics data



Figure 10.1: The data model for topics

The data model for the topics is depicted in figure 10.1.

10.1.1 The class Topic

The class Topic represents the information stored for a topic on CTAN. It has the following attributes:

key is the unique identifier for the license. It will be used as part of the URL for the license. Thus it consists mainly of letters, digits and the minus sign.

In addition the following associations are present:

details leads to the details of the topic (see section 10.1.1).

pkg leads to the packages for the topic (see section 8.1.1).

alias leads to the master topic for an alias (see section 10.1.1).

children leads to the child topics (see section 10.1.1).

10.1.2 The class TopicDetails

The topic details contains the texts for the topic which are language dependent.

key contains the key of the topic.

locale is the locale (i.e. language) of the details. If not defined then the language **en** can be assumed.

description contains the description text for the topic,

detail contains the details text for the topic.

teaser contains the teaser text for the topic. This is usually a short sentence.

title contains the title for the topic. This consists usually of a few words only.

10.2 The topics list page



Figure 10.2: The empty topics page

Story

As LAT_EX user (Leo Urbanski) *I want* to see which topics are present on CTAN *In order to* to get inspiration for my own documents.

Explanations

The topics are a second approach to classify the packages. The first approach are the directories in the tex-archive tree. They are restricted since a package can live in one

directory only. In the past symlinks have been used to relax this restriction. But it has not proven as practical. Thus the symlinks are reduced.

A package can have attached several topics. Thus it can be found on several paths.

This page provide a means to search for topics and see the packages contained in them.

Acceptance criteria

- 1. Given I am on the topics page Then the URL path shown in the browser is /topics and the favicon is the CTAN icon.
- 2. Given I am on the topics page and the language is English Then the page title is "Topics".
- 3. Given I am on the topics page and the language is German Then the page title is "Themen".
- 4.

10.3 The topic page

Story

As LATEX user (Leo Urbanski)

I want to see which packages are contained in a topic

In order to to get inspiration for my own documents.

Explanations

Acceptance criteria

- 1. Given I am on the topic page Then the URL path shown in the browser is /topic/* and the favicon is the CTAN icon.
- 2. Given I am on the topic page and the language is English Then the page title is "Topic".
- 3. Given I am on the topic page and the language is German Then the page title is "Thema".



Figure 10.3: The topic page

4. _____

144
11 The licenses

11.1 The licenses data

There are many license models used for software. On CTAN we have various packages. Each of them is distributed under certain licenses. We can not keep an exhaustive list of licenses. We have to concentrate of the important ones. Especially open source licenses are of interest since they allow the use of the associated package without severe restrictions.



Figure 11.1: The data model for licenses

The data model for the licenses is depicted in figure 11.1.

11.1.1 The class License

The class License represents the information stored for licenses on CTAN. It has the following attributes:

- **key** is the unique identifier for the license. It will be used as part of the URL for the license. Thus it consists mainly of letters, digits and the minus sign.
- name The name is the readable name of the license.
- **url** This optional attribute contains a URL leading to more details about the license. It is in general not located on CTAN.
- **free** This Boolean attribute indicates whether the license is assumed to be "free". It can have one of three values:

TRUE indicates a license which is considered to be free.

- **FALSE** indicates a license which is considered to be non-free. For instance licenses for commercial packages are in general classified as non-free.
- **null** indicates that the classification of the license is unknown. For instance licenses where CTAN does not have the license text are classified this way.
- **selectable** indicates that an uploader may select this license for a package. Thus licenses can be marked for internal use only.

In addition the following associations are present:

text leads to the terms of the license (see section 11.1.2).

intro leads to the introductory text for the license (see section 11.1.3).

11.1.2 The class LicenseText

The license text contains the terms for the license. This text can be present in different languages.

key contains the key of the license.

locale is the locale (i.e. language) of the text. If not defined then the language **en** can be assumed.

text contains the formatted license text. It uses the HTML formatting instructions.

11.1.3 The class LicenseIntro

The license intro contains some introductory text for the license. This text can be present in different languages.

key contains the ley of the license.

- **locale** is the locale (i.e. language) of the intro. If not defined then the language **en** can be assumed.
- **intro** contains the formatted license introduction for the given language. It uses the HTML formatting instructions.

11.2 The licenses list page

Story

As package author (Peter Aumich)

I want to see which licenses are used in CTAN

In order to to get an inspiration what I can use for my own package.

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6				
2.				1
9 (>				
*	* Licenses		=	
Q				
2	There are a lot of licenses available. Here we or non-free. Packages with free licenses will CTAN is not restricted to free pack. list only some of them. If you want to use normally make it into the distributions. The do not assume that a package is fr	ages. Th ee just	nus	
±	another one for your package then you are others are left out. because you can find it on CTAN. free to do. The licenses are classified as free			
Ø				
۳	Υ			
. 28.	Start typing to show only the licenses containing the filter term.			
Ģ	©2024 CTAN TEAM 🖅 CONTACT 🧭 PRIVACY	(i)	Авоит	

Figure 11.2: The empty licenses page

Licenses listed here are only a small set of licenses used throughout the world. The licenses listed here are mainly fed from the licenses used in the packages of CTAN.

Acceptance criteria

- 1. Given I am on the licenses page Then the URL path shown in the browser is /licenses and the favicon is the CTAN icon.
- 2. Given I am on the licenses page and the language is English Then the page title is "Licenses".
- 3. Given I am on the licenses page and the language is German Then the page title is "Lizenzen".
- 4.



Figure 11.3: A license page

11.3 A license page

Story

As package author (Peter Aumich)

I want to get details about a license

In order to to get an idea whether I can use for my own package.

Explanations

The license page presents details for a single license.

The appearance of a license page can be seen in figure 11.3.

Acceptance criteria

- 1. Given I am on the licenses page Then the URL path shown in the browser is /license/<license> and the favicon is the CTAN icon.
- 2.

missing acceptance criteria

149

12 Announcements

♦ Announcements × +					
$\leftarrow \rightarrow$	C C localhost:3000/ctan-ann		☆ 🔍 🐠 🎽		
٩	CT/				
 ▲ 	Announcements The changes in CTAN are also published via the mailing list ctan-ann at dante.de. The uploaders can opt out. Thus not all updates are announcements	Here you can find published and red.	ouncements.		
*	Subject	Packages	Date		
¢	E CTAN update: amiri	amiri	2024-07-27		
	E CTAN update: newpx	newpx	2024-07-27		
	E CTAN update: newtx	newtx	2024-07-27		
	E CTAN update: statistics	statistics	2024-07-27		
	CTAN update: algobox	algobox	2024-07-27		
	E CTAN Update: testidx	testidx	2024-07-27		
	E CTAN Update: I3kernel	l3kernel	2024-07-27		
	CTAN update: filecontentsdef	filecontentsdef	2024-07-27		
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Figure 12.1: The announcements list

Uploads are announced on the mailing list ctan-ann@dante.de unless the uploader contradicts.

12.1 The announcement list

The announcement list is a page containing announcements of packages.

Story

As user of the CTAN site

I want to read about the upload of packages

In order to decide whether some of mine need upgrading.

Explanations

The announcement list is presented as table (cf. section 2.14.2). This list is sorted in reverse chronological order. This means the most recent announcements are shown first. If the user scrolls down then older announcements are shown.

The figure 12.1 presents an example of this page.

Acceptance criteria

- 1. Given I am on the announcements list Then the URL path shown in the browser is /ctan-ann and the favicon is the CTAN icon.
- 2. Given I am on the announcements list and the language is English Then the page title is "Announcements".
- 3. Given I am on the announcements list and the language is German Then the page title is "Ankündigungen".
- 4.

12.2 The announcement

Story

As experienced user of the CTAN site ((Emma Taylor, Ellie Larch)

 \boldsymbol{I} want to read what has been changed in a special release of a package

In order to decide whether it is worth to upgrade.

Explanations

The announcement should contain all relevant information. Thus it is sufficient to show more or less only the mail.

missing acceptance criteria



Figure 12.2: A single announcement

The figure 12.2 presents an example of this page.

Acceptance criteria

- 1. Given I am on the announcements page Then the URL path shown in the browser is /ctan-ann and the favicon is the CTAN icon.
- 2. Given I am on the announcements page and the language is English Then the page title is "Announcements".
- 3. Given I am on the announcements page and the language is German Then the page title is "Ankündigungen".

4.

missing acceptance criteria

13 The news feeds

The main format provided by the CTAN site are HTML pages. In addition we want to support news feeds. The most commonly used formats are RSS 2.0 [RSS09] and Atom 1.0 [ATO05]. These are supported by the CTAN site.

13.1 The RSS feed for ctan-ann

Story

As LATEX user (Leo Urbanski)

I want to get notifications for updates or new packages on CTAN via an RSS feed *In order to* to read the news with my preferred news reader.

Explanations

One channel publishes all announcements of the mailing list ctan-ann@ctan.org in RSS format.

Acceptance criteria

- 1. Given I retrieve the URL https://ctan.org/ctan-ann/rss Then I get an XML response in RSS 2.0 format and the entries contain the announcements on ctan-ann and the entries are ordered reverse chronologically.
 - _____



Story

2.

As LATEX user (Leo Urbanski)

I want to get notifications for updates for my preferred packages on CTAN via an RSS feed

In order to to read the news with my preferred news reader.

All announcements which are requested by the uploader are puvlished on the ctan-ann@ctan.org.

Each package has its own channel which publishes the announcements for this package in RSS 2.0 format.

Acceptance criteria

- 1. Given I retrieve the URL https://ctan.org/ctan-ann/rss/pkg Then I get an XML response in RSS 2.0 format and the entries contain the announcements on ctan-ann for the package pkg and the entries are ordered reverse chronologically.
 - _____



13.3 The Atom feed for ctan-ann

Story

2.

As LATEX user (Leo Urbanski)

I want to get notifications for updates or new packages on CTAN via an Atom feed *In order to* to read the news with my preferred news reader.

Explanations

One channel publishes all announcements of the mailing list ctan-ann@ctan.org in Atom format.

Acceptance criteria

- 1. Given I retrieve the URL https://ctan.org/ctan-ann/atom Then I get an XML response in Atom 1.0 format and the entries contain the announcements on ctan-ann and the entries are ordered reverse chronologically.
- 2.

missing acceptance criteria

13.4 The Atom feed for packages

Story

As LATEX user (Leo Urbanski)

I want to get notifications for updates for my preferred packages on CTAN via an Atom feed

In order to to read the news with my preferred news reader.

Explanations

All announcements which are requested by the uploader are puvlished on the $\mathtt{ctan-annQctan.org}$.

Each package has its own channel which publishes the announcements for this package in Atom 1.0 format.

Acceptance criteria

- 1. Given I retrieve the URL https://ctan.org/ctan-ann/atom/pkg Then I get an XML response in Atom 1.0 format and the entries contain the announcements on ctan-ann for the package pkg and the entries are ordered reverse chronologically.
- 2.



14 The content delivery network

CTAN has a set of associated servers around the world which act as content delivery network (CDN). These servers have been called mirrors formerly.

14.1 The CDN server data



Figure 14.1: The data model for mirrors

The data model for the CDN servers is depicted in figure 14.1.

14.1.1 The class Mirror

The class Mirror represents a registered mirror server. This entity has the following attributes:

- **hostname** contains the DNS name of the host acting as mirror. This String is at most 255 characters long. It is mandatory.
- path contains the path where the T_EX archive can be accessed. This String is at most 255 characters long. It is mandatory.

- **region** contains the optional name of the region of the country where the server is located. This String is at most 255 characters long.
- **town** contains the optional name of the town or city where the server is located. This String is at most 255 characters long.
- **frequency** contains a description how often the mirror is updated. This String is at most 255 characters long.

In addition the following associations are present:

country leads to the country for the location of the mirror server (see section 14.1.2).

continent leads to the continent for the location of the mirror server (see section 14.1.3).

14.1.2 The class Country

The class Country represents a country of the world.

A Country has the following attributes:

id the numerical id of the instance. It is mandatory.

name contains the name of the country. This String is at most 255 characters long. It is mandatory.

In addition the following association is present:

continent leads to the continent for the location of the mirror server (see section 14.1.3).

14.1.3 The class Continent

The class Continent represents a continent of the world.

A Continent has the following attributes:

id the numerical id of the instance. It is mandatory.

name contains the name of the continent. This String is at most 255 characters long. It is mandatory.

The continents listed in table 14.1 should be present.

14.1.4 The class Contact

The class Contact represents a person to be contacted for the issues of a certain mirror server.

A Contact has the following attributes:

name contains the name of the contact. This String is at most 255 characters long. It is mandatory.

id	name
0	dummy
1	Africa
2	Antarctika
3	Asia
4	Australasia
5	Europe
6	North America

7 South America

Table 14.1: The continents

email contains the email address of the contact. This String is at most 255 characters long. It is mandatory.

14.2 The CDN dashboard

Story

As T_EX user

I want to see what CTAN has to offer on CDN servers

In order to get aquainted with it.

Explanations

The CDN dash board provides an overview of the various informations which are present for the CDN servers. The related pages are presented as tiles with a link.

Acceptance criteria

- Given I am on the mirrors page Then the URL path shown in the browser is /cdn and the favicon is the CTAN icon.
- 2. Given I am on the mirrors page and the language is English Then the page title is "CDN".
- 3. Given I am on the mirrors page and the language is German Then the page title is "CDN".



Figure 14.2: The CDN dashboard

4.

missing acceptance criteria

missing explanations

14.3 The list of CDN servers page



Figure 14.3: The CDN servers list

Story

As T_EX user*I* want to find a nearby CDN server*In order to* manually download packages from there.

Explanations

Acceptance criteria

1. Given I am on the CDN page

Then the URL path shown in the browser is /cdn/list and the favicon is the CTAN icon.

- 2. Given I am on the CDN page and the language is English Then the page title is "CDN".
- 3. Given I am on the CDN page and the language is German Then the page title is "CDN".
- 4.

14.4 The CDN monitor page

Story

As T_EX user (Theodora Usher)

I want to see how the CDN servers in my region perform

 ${\it In~order~to}$ manually select a good performing server.

Explanations

The appearance is shown in figure 14.4.

Acceptance criteria

- 1. Given I am on the CDN page Then the URL path shown in the browser is /cdn/monitor and the favicon is the CTAN icon.
- 2. Given I am on the CDN page and the language is English Then the page title is "CDN Monitor".
- Given I am on the CDN page and the language is German Then the page title is "CDN-Monitor".
- 4.

missing acceptance criteria

missing acceptance criteria

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٩		
Q (2)	O Mirrors 🖳 Mirror Monitor O Becoming a Mirror 🖸 Register a Mirror	
± ⊘	모 Mirror Monitor	
Ø	The status of CTAN mirrors	
P	date Mon Aug 12 19:03:01 2024 (UTC)	
0	last check Mon Aug 12 19:03:01 2024 (UTC)	
	Age histogram	
*	t	
¢		
囗		
	units = = = = represent one mirror site. Regions Root at au bg br by ca ch cl cn cr cz de dk es fi fr gb gr hk hu id in ir it jp kr ma nl no pl pt ro ru sa se sg th tw us za	
	Report 137 cites in 41 regions	
	0 bad – 2 older than 2.2 days – 0 unreachable for more than 5 hours	
	mean mirror age is 10 hours, std_dev 12 hours, median 8 hours	
	CTAN site – home type mirror age, last probe, daily stats probe stats	
	dante.ctan.org @https 1 minute renewed dante.ctan.org @https	
	gb	
	gb.mirrors.cicku.me @https 8 hours renewed ok	
	mirror.apps.cam.ac.uk @https 22 hours renewed ok	ł
	mirror.ox.ac.uk @https 16 hours renewed ok	
	anorien.csc.warwick.ac.uk @https 17 hours renewed ok	
	Australia mirror.aarnet.edu.au @https ⁶ hours renewed	
	mirror.cse.unsw.edu.au @https 5 hours renewed	
	©2024 CTAN TEAM III Contact ⊘ PRIVACY 8 hours renewed ok	

Figure 14.4: The CDN monitor



Figure 14.5: The becoming CDN page

14.5 Becoming a CDN server

Story

As manager of a server on the internet

I want to learn how to provide the CTAN content as services to the world

In order to get started with it.

Explanations

We have some explanations for the setup of a CDN server. They are presented here. The appearance of the page is shown in figure 14.5.

Acceptance criteria

- 1. Given I am on the becoming a CDN page Then the URL path shown in the browser is /cdn/becoming and the favicon is the CTAN icon.
- Given I am on the becoming a CDN page and the language is English Then the page title is "Becoming a CDN server".
- 3. Given I am on the becoming a CDN page and the language is German Then the page title is "Einen CDN-Server bereitstellen".
- 4.

14.6 The CDN registration page

Story

As manager of a server on the internet (Michel Simone)*I want* to provide my services as CDN server to the world*In order to* get provide something to the T_FX world.

Explanations

The appearance is shown in figure 14.6.

missing explanations

missing acceptance criteria

٩	CTAN	ዲ 🕛 ፤
 ▲ <	OLIST OF CDN SERVERS Q CDN MONITOR O BECOMING A CDN SERVER Q REGISTER	A CDN SERVER
• Ø	Register a CDN server If you have a public server and want to devote it for public use. After you have set up your server you can submit it with this form	to CTAN. We will add your server and the CDN multiplexor will start to direct some requests to your server.
9 A	Server name*	HTTP address Image: I
	Contact email*	rsync address Notes to the CTAN team
	Ciny	
	HTTPS address*	SUBMIT
	©2025 CTAN TEAM 🔎 CONTACT 🔮 PRIVACY	⊯ Feedback © About

Figure 14.6: The CDN registration page

Acceptance criteria

- 1. Given I am on the mirrors page Then the URL path shown in the browser is /mirrors/register and the favicon is the CTAN icon.
- Given I am on the mirrors page and the language is English Then the page title is "Register a CDN server".
- Given I am on the mirrors page and the language is German Then the page title is "Register a CDN server".
- 4.

15 Accounts

Accounts on the CTAN Web site are a means to provide users with personalised features. Primarily they are located on the Web client. This means that the server does not know anything about most items of personalisation.

The accounts may be linked with an author entry in the Catalogue. But the two concepts are distinct. This means that packages uploads can be performed without having an account or without being logged in.

15.1 The account data



Figure 15.1: The data model for accounts

The data model for the accounts is depicted in figure 15.1.

15.1.1 The class Account

account is the unique login name for the account.

password is the hashed password. A password must not be stored in clear text under any circumstances.

email contains the email address of the user.

name contains the real name for the user.

city optionally contains the city where the user is located.

countryKey optionally contains the country key where the user is located.

created contains the date when the account has been created.

expired contains the indicator that the account is expired. In this case a login fails.

locked contains the indicator that the account is locked. In this case a login fails.

enabled contains the indicator that the account is enabled. In this case a login fails if the value is false.

passwordExpired contains the indicator that the password is expired. In this case a login fails and a new password has to be set.

htmlEmail contains the indicator that email to the user should be formatted with HTML. Otherwise pure text is used.

showEmail contains the indicator that the email address of the user is publicly visible.

showName contains the indicator that the real name of the user is publicly visible.

authorKey contains an author key. If set then the user is confirmed to be the author with this key.

avatar contains an image for the user.

avatarType contains an image type for the avatar image.

description contains a short text about the user for the public.

In addition the following associations are present:

gender links to the gender of the user (see section 9.1.2).

roles is the indicator that the admin functionality is available (see section 15.1.2).

Additionally the following dependencies are present:

author optionally links to the associated author (see section 9.1.1).

country links to the country of the user (see section 14.1.2).

15.1.2 The enumeration Role

The enumeration Role determines which functions and data are available for the current user. The following values are available:

ADMIN is the indicator that the admin functionality is available. Most of the entities can be crated, edited, and deleted.

MESSAGE_ADMIN is the indicator that messages to the user can be managed.

EDITOR is the indicator that the content texts can be managed.

UPLOAD_MANAGER is the indicator that the catalogue entities can be managed.

15.2 Register an account

!.	··· Tol/ Augleine Nicture als
⁺ [≗] R	egister ×
	T I III
Subi link your	nit a registration request. An email is sent to your address to provide a for the next step in the registration. There you are requested to complete profile.
2	Account
	This value is required. It can not be left empty.
	Email
	+2 SUBMIT X CANCEL
	ப் sign-in
	27 REQUEST ACCOUNT
	C RESET PASSWORD

Figure 15.2: The register account dialogue

Story

As user of the CTAN site (Abel Begger)

I want to register an account

In order to use additional features of the CTAN site.

The user is usually anonymous when starting to visit the site. The registering of an account and starting using it is a conscious decision.

The registration form can be seen in figure 15.2.

The registration process follows the following steps:

- 1. The applicant opens the register dialogue and fills in some basic attributes. Finally the form is submitted.
- 2. The server validates the input. An account is created in locked state and a confirmation email is sent to the applicant. This email contains a link back to the CTAN site.
- 3. The applicant reads the email and clicks on the link to confirm the registration.
- 4. The applicant gets a form to complete the entered data.
- 5. The CTAN site activates the account which can be used to log-in from now on.

Acceptance criteria

1.

15.3 Log into an account

Story

As user of the CTAN site (Peter Aumich)

I want to log-in with an account

In order to use additional upload features of the CTAN site.

Explanations

A classical user name and password pair is used for authentication. Those are kept in the CTAN site (i.e. the database).

In the future additionally the link to other authentication providers might be added. The login form can be seen in figure 15.3.

Acceptance criteria

1.

criteria

missing acceptance criteria

1131	
ψs	ign-in to the CTAN site
Here	e you can authenticate to have access to CTAN as registered user.
2	Account
	This value is required. It can not be left empty.
۲	Password
	U SIGN-IN X CANCEL
	*A REGISTER AN ACCOUNT
	27 REQUEST ACCOUNT
	G RESET PASSWORD

Figure 15.3: The login dialogue

15.4 Log out



Figure 15.4: The log-out button in the user menu

Story

As registered user of the CTAN site (Peter Aumich)

I want to log-out

In order to not leave an active session in my browser for security considerations.

Explanations

The "Log out" functionality is available via the user menu (see figure 15.4). It is shown when the current user has been authenticated.

"Log out" simply deletes the current user. If a protected page is currently visited then the user is redirected to the home page.

Protected pages are those pages which can be seen by a user with an appropriate role only. This includes the user dash board and the admin pages.

Acceptance criteria

- Given I am currently visiting an unprotected page of the site and I have been authenticated as user When I click on the menu item "Sign-out" in the user menu Then I am still on the same page and the user menu is no longer shown
- 2. Given I am currently visiting a protected page of the site and I have been authenticated as user

When I click on the menu item "Sign-out" in the user menu Then I am redirected to the home page and the user menu is no longer shown

15.5 Reset password

IST	
G R	eset the password
	T
Req cont	uest a link to define a new password. A mail will be sent to this address. ains a link where you can enter a new password.
2	Account This value is required. It can not be left empty.
	Email
	Q SUBMIT X CANCEL
	பு sign-in
	+은 REGISTER AN ACCOUNT
	REQUEST ACCOUNT
_	

Figure 15.5: The reset password dialogue

Story

 $\textit{\textbf{As}} \ T_{E}\!X \ user \ (Theodora \ Usher)$

I want to set a new password since I have forgotten my password

In order to to log-in into the CTAN site again and use the personalised features.

The regard pageword dialogue can be seen in figure 15 5	
The reset bassword dialogue can be seen in figure 13.3.	missing
	explanations

Acceptance criteria



15.6 Request account name

≗ ? R	equest an account >	<
Sub add acco	mit a request to receive your account name. An email is sent to your ress. It contains your account name and a link where you sign in with this bunt name.	
	Email	
	SUBMIT X CANCEL	
	ப் sign-in	
	+음 REGISTER AN ACCOUNT	
	C RESET PASSWORD	

Figure 15.6: The request account dialogue

Story

As registered user of the CTAN site (Peter Aumich)

I want to get a reminder of my account name of the CTAN site

 ${\it In \ order \ to \ }$ log-in after I have forgotten the account name. considerations.

A case which happens from time to time is that the user has forgotten the user name for the CTN site. This case is supported by the CTAN site in an automatic way.

The "forgot account name" form can be seen in figure 15.6.

The process to recover the account name is as follows:

- 1. The user selects "request account name" on the login form.
- 2. The user gets a form to enter the email address.
- 3. The system retrieves a matching account and send an email to the email address given which contains the login name.
- 4. The user can use the account name from the email to log-in.

Acceptance criteria

1.	missing
	acceptance
	criteria

missing explanations

16 The user dashboard



Figure 16.1: The user dashboard

Story

As user of the CTAN site (Leo Urbanski)*I want* to see personal infos and functions*In order to* improve the user experience of the site.

Explanations

A authenticated user has a personal page which is visible only for this user. Here personal data can be seen and modified. The appearance of the user dashboard can be seen in figure 16.1.

The dash board is structured with tabs. The following tabs are used on this page:

the data tab (see section 16.1)

the contributions tab (see section 16.4)

the pages tab (see section 16.5) the visits tab (see section 16.6) the ratings tab (see section 16.7)

Acceptance criteria

1. Given I am logged-in and the language is English When I click in the left navigation bar on the item "User <Account>" Then I am navigated to the user dash-board (URL /home) and the title of the page is "CTAN start page for (user name)" and the tabs "My data", "My contributions", and "My pages" are present and selectable and the tab "My data" is selected. 2. Given I am logged-in and the language is German When I click in the left navigation bar on the item "Nutzer (Account)" Then I am navigated to the user dash-board (URL /home) and the title of the page is "CTAN-Startseite für (user name)" and the tabs "Meine Daten", "Meine Beiträge", and "Meine Seiten" are present and selectable and the tab "'Meine Daten" is selected. 3. Given I am logged-in and I am on the user dash-board (URL /home) Then I am navigated to the user dashboard (URL /home) and The title of the page is "CTAN-Startseite für «user name»".

4. Given I am not logged-in When I try to navigate to the user dash-board (URL /home) Then a 404 error page is shown.

16.1 My data tab

Story

As user of the CTAN site (Leo Urbanski)

I want to see and possibly adjust my personal data

In order to fix attributes which might no longer be correct.

٩	
A	
A	
<u>₩</u>	
ē	🗚 CTAN start page for Gerd Neugebauer
±	This page is visible for you exclusively.
Ø	🖾 My data 📮 My contributions 🛤 My pages 🎯 My visits 😰 My ratings
	1 Q a W L a
*	IL S D F G
	🖭 My data
0	Account (login name)
()	o Name ⁴
¢ m	E Gerd Neugebauer
	The name is publicly visible
Ť	Gender* Male
	Email* gene@gerd-neugebauer.de
	Country P Germany
	City
	Ba Mauer
	= Description
	©2025 CTAN TEAM /@ CONTACT 🔮 PRIVACY 📃 FEEDBACK 📀 ABOUT

Figure 16.2: The data tab of the user dashboard

The data collected for a user are defined sparsely. If possible then the attributes are kept on the client and not stored on the CTAN server. The attributes of a user account are defined in section 15.1.

The appearance of the data tab of the user dashboard can be seen in figure 16.2.

The following attributes are presented on the data tab:

The account is presented but can not be modified.

The name contains the real name of the user if the visibility is enabled.

The visibility indicator determines that the real name may be shown publicly.

The gender is the gender of the user. Here only male and female as values are usable for the end-user.

The email is the email address of the user.

The country is the optional location country of the user.

The city is the optional location city of the user,

The description can be used to leave a few words from the user himself.

Acceptance criteria

- Given I have been authenticated as user and I am on the user dash board Then the tab "my data" exists and is selectable.
- 2. Given I have been authenticated as user and I am on the "My data" tab of the user dash board and the language is English Then the tab title is "My data".
- 3. Given I have been authenticated as user and I am on the "My data" tab of the user dash board and the language is German Then the tab title is "Meine Daten".
- 4.

missing acceptance criteria

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Figure 16.3: The set password dialog

16.2 Set password dialog

Story

As user of the CTAN site (Leo Urbanski)*I want* to change my password*In order to* improve this security attribute.

Explanations

The dialog allows the user to enter a new password and submit the password request. This is available for an authenticated user only.

The user has to enter a new password. This password must have a minimum length of three characters.

The appearance of the set password dialog can be seen in figure 16.3.

Acceptance criteria

1. Given I have been authenticated as user

and I am currently visiting the user dash board and the tab "My data" is open When I click on the button "Set password" Then the "Set password" dialogue is opened and a text input field for the "New password" is shown.

- 2. Given the "Set password" dialogue is open and the "New password" field contains less than three characters. Then the "Submit password" button is disabled.
- 3. Given the "Set password" dialogue is open and the "New password" field contains at least three characters. Then the "Submit password" button is enabled.
- Given the "Set password" dialogue is open When I click the "Cancel" button Then the dialogue is closed without any further action.
- 5. Given the "Set password" dialogue is open When I click the "Close" button in the title row Then the dialogue is closed without any further action.
- 6. Given the "Set password" dialogue is open and I have entered at least three characters in the "New password" field When I click the "Submit password" button Then the old password is no longer accepted for login and the new password is accepted instead.

16.3 Delete an account



Figure 16.4: The deletion confirmation dialogue

Story

As registered user of the CTAN site (Peter Aumich)

I want to delete my CTAN account

In order to create another one with the same name as my author name.

Explanations

The information associated with a user account is eliminated completely. This can be requested by an authenticated user only. I will effect this user only.

The deletion effects

- the user and its login itself
- the user public page
- the ratings of the user

The deletion can be triggered on the "My data" tile on the user dash board (see section 16.1).

Since the operation is severe and not reversible a confirmation dialogue is opened (see figure 16.4). Here the user has the chance to abort the operation or really do it.

Acceptance criteria

- Given I have been authenticated as user and I am on the user dash board.
 When I click on the button "Delete account" Then the confirmation dialogue is opened.
- 2. Given I have been authenticated as user and I am on the user dash board.
 and I have clicked on the button "Delete account" to open the confirmation dialogue. When I click on the button "Delete" Then my account is deleted and I am no longer signed in and I am redirected to the home page.
- 3. Given I have been authenticated as user and I am on the user dash board.
 and I have clicked on the button "Delete account" to open the confirmation dialogue. When I click on the button "Cancel" Then the dialogue is closed and no change on the account is performed.
- 4. Given I have been authenticated as user

and I am on the user dash board.

and I have clicked on the button "Delete account" to open the confirmation dialogue. When I click on the button "Close"

Then the dialogue is closed

and no change on the account is performed.

16.4 My packages tab

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A		net term uo	
≙			
<u>w</u>			
ſ	🕈 CTAN start page for Gerd I	Neugebauer	
±	This page is visible solomnly for you.		
Ø	🖾 My data 🛛 My contributions 🔎 My pages	© My visits 🙂 My ratings	
		A REAL PROPERTY AND A REAL PROPERTY AND A	
***	and the second second		1. 1.
©	1045 640		
₩ •	My contibutions		
*	I am the contributor neugebauer		
	My packages		X NEW PACKAGE
	Package	Version	
	😚 fundus-startrek	1.1	±
	🅎 pi	3.0	<u>±</u>
	🕅 fundus-cyr	2012-04-14	<u>±</u>
	🕅 fundus-va	1.3	<u>±</u>
	🕅 crossword	1.9 2014-01-12	±
	102024 CTAN TEAM ID CONTACT O PRIVACY		© Аво <u>й</u> т

Figure 16.5: The packages tab of the user dashboard

Story

As user of the CTAN site (Leo Urbanski)

 \boldsymbol{I} want to see the list of packages contributed by me

In order to check whether I still have something to submit.

Explanations

The packages tab shows list with all contributions of the current user.

The list contains a button to perform an upload of a new version efficiently.

The appearance of the packages tab of the user dash board is shown in figure 16.5.

Acceptance criteria

- Given I have been authenticated as user and I am on the user dash board Then the tab "my packages" exists and is selectable.
- 2. Given I have been authenticated as user and I am on the "My packages" tab of the user dash board and the language is English Then the tab title is "My packages".
- 3. Given I have been authenticated as user and I am on the "My packages" tab of the user dash board and the language is German Then the tab title is "Meine Pakete".
- 4.

16.5 My public pages

Story

As user of the CTAN site (Leo Urbanski)

I want to have the functionality to see and modify the settings of my account

In order to adjust things to my current situation.

Explanations

The public pages tab allows the user to navigate to the public pages of the current user. The appearance of the public pages tab of the user dash board can be seen in figure 16.1.

Acceptance criteria

 Given I have been authenticated as user and I am on the user dash board Then the tab "my pages" exists and is selectable. missing acceptance criteria



Figure 16.6: The public pages tab of the user dashboard

- 2. Given I have been authenticated as user and I am on the "My pages" tab of the user dash board and the language is English Then the tab title is "My pages".
- 3. Given I have been authenticated as user and I am on the "My pages" tab of the user dash board and the language is German Then the tab title is "Meine Seiten".
- 4.

missing acceptance criteria

16.6 My visited pages

			GENE
🗷 Мус	DATA 🖳 MY CONTRIBUTIONS	🖩 Mypages 🕲 Myvisits 🗈 Myratings	
			•
My v	isited pages		
,			
T Filte	r visits)
Туре	Name	Visited 🗸	
2.	neugebauer	2025-4-18 10:49	Ō
*	cc0	2025-4-17 23:17	Ō
٩	bibtool	2025-4-17 20:33	Ō
Ø	comfortaa	2025-4-17 16:46	Ō
2.	aakerlund	2025-4-17 16:43	Ō
\Diamond	background	2025-4-17 16:28	Ō
Ø	background	2025-4-17 16:28	Ō
0	a2ac	2025-4-17 14:30	Ō
Ø	jablantile	2025-4-17 11:11	Ô
Ŷ	dashbox	2025-4-16 14:19	Ō

Figure 16.7: The visited pages tab of the user dashboard

Story

As user of the CTAN site (Leo Urbanski)

I want to have the functionality to see and modify the catalogue pages I have visited *In order to* find things again which I have seen before.

Explanations

The visited pages tab allows interact with the list of Catalogue pages already visited. The appearance of the visited pages tab of the user dash board can be seen in figure 16.7.

The visited page are listed in the Browser's history. But this list is not focused on the Catalogue.

Acceptance criteria

- Given I have been authenticated as user and I am on the user dash board Then the tab "my visited pages" exists and is selectable.
- 2. Given I have been authenticated as user and I am on the "My visited pages" tab of the user dash board and the language is English Then the tab title is "My visits".
- 3. Given I have been authenticated as user and I am on the "My visited pages" tab of the user dash board and the language is German Then the tab title is "Meine Besuche".

4.

missing acceptance criteria

The filter field

Story

As user of the CTAN site (Leo Urbanski)

I want to select items in the list of catalogue pages I have visited

In order to find those pages faster.

Explanations

The filter field can be used to specify a filter term.

Acceptance criteria

 Given I am logged-in and I am on the visited pages tab of the user dash-board When I have entered nothing in the filter field Then all history items are shown. Given I am logged-in and I am on the visited pages tab of the user dash-board When I enter a word in the filter field Then only the matching history items are shown.

The "clear all" button

Story

As user of the CTAN site (Leo Urbanski)

I want to have the functionality remove the visited pages

In order to reset the list to a new starting point.

Explanations

The "clear all" button removes all items in the visited pages list.

Acceptance criteria

 Given I am logged-in and I am on the visited pages tab of the user dash-board When I click on the "clear all" button Then all rows of the list are removed.

The list of visited pages

Story

As user of the CTAN site (Leo Urbanski)

I want to see the list of previously visited pages

In order to see where I have been and naavigate there again.

Explanations

The list of visited pages contains the following columns:

Type contains the type of the page. It is either shown as icon or as text.

Name contains the name of the visited entity.

Visited contains the time stamp of the last visit of this page.

Function contains buttons for functions on the row.

The columns type, name, and visited are sortable. This is done by clicking on the head item of the respective column. Initially the list is sorted decending on the time stamp.

Clicking on a row navigates to the respective page.

Acceptance criteria

- Given I am logged-in and I am on the visited pages tab of the user dash-board When I click on a row of the pages list Then I am navigated to the respective page.
- 2. Given I am logged-in and I am on the visited pages tab of the user dash-board When I click on the head title item of the pages list Then the sorting indicator changes and the list is sorted accordingly.
- 3. Given I am logged-in and I am on the visited pages tab of the user dash-board When I click on the delete icon of a row in the pages list Then the row is deleted.

16.7 My ratings

Story

As user of the CTAN site (Leo Urbanski)

I want to have the functionality to see and modify the votings I have placed

In order to adapt my votings according to new insights.

Explanations

The ratings tab allows to interact with the list of my votings. The appearance of the ratings tab of the user dash board can be seen in figure 16.8.

Acceptance criteria

 Given I have been authenticated as user and I am on the user dash board Then the tab "my ratings" exists and is selectable.



Figure 16.8: The ratings tab of the user dashboard

- 2. Given I have been authenticated as user and I am on the "My ratings" tab of the user dash board and the language is English Then the tab title is "My ratings".
- 3. Given I have been authenticated as user and I am on the "My ratings" tab of the user dash board and the language is German Then the tab title is "Meine Bewertungen".
- 4.

missing acceptance criteria



17 The user's public page

Figure 17.1: The user's public page

Story

As experienced T_EX user (Emma Taylor)

I want to contact someone who has left a comment on one of my packages

In order to clarify some formulations.

Explanations

Only a few attributes are exposed for CTAN users. They can even be configured in the user's settings.

A sample of a user page can be seen in figure 17.1.

Note that is intended that there is no user list or user search for the public. Only admins have such a feature.

Acceptance criteria

- 1. Given I am on the user public page Then the URL path shown in the browser is /home/<account> and the favicon is the CTAN icon.
- Given I am on the user public page and the language is English Then the page title is "User <account>".
- 3. Given I am on the user public page and the language is German Then the page title is "Nutzer <account>".
- 4. Given The user (unknown) does not exist When I enter the URL /home/(account) Then I am navigated to the "page not found" page (see section 2.17.1).
- 5. Given The user <account> exists and I am currently visiting the user public page for this account (i.e. /home/<account>) and the user has denabled that the real name is shown Then the real name is shown.
- 6. Given The user <account> exists and I am currently visiting the user public page for this account (i.e. /home/<account>) and the user has disabled that the real name is shown Then the real name is not shown.
- 7. Given The user <account> exists and I am currently visiting the user public page for this account (i.e. /home/<account>) and the user has enabled that the email is shown Then the email is shown.
- 8. Given The user <account> exists and I am currently visiting the user public page for this account (i.e. /home/<account>) and the user has disabled that the email is shown Then the email is not shown.
- 9. Given The user <account> exists and I am currently visiting the user public page for this account (i.e. /home/<account>) and the user has provided a self description text Then the self description is shown.
- 10. Given The user (account) exists and I am currently visiting the user public page for this account (i.e. /home/(account)) and the user has not provided a self description text Then the self description is not shown.

18 The search page



Figure 18.1: The search start page

Story

 \pmb{As} user of the CTAN site

I want to search for pages on the CTAN site

In order to use get the interesting information more easity.

Explanations

Beside the navigation in a tree-like directory tree users are used to finding pages with a search feature. As first approach one might use a general search engine like Google or DuckDuckGo. To get better results we can provide own search engine.

The search can be started on each page in the search bar (see section 18.1).

The search button in the left navigation bar leads to the start page of the search. The appearance is shown in figure 18.1.

Acceptance criteria

18.1 Search bar





Story

 \pmb{As} user of the CTAN site

I want to have access to the search on aech page

In order to enter the search more effiently.

Explanations

The search should be efficiently accessible. This means a button on each page. Thius the search bar can be opened with the search button in the tool bar (see section 2.13.1).

The appearance of the search bar can be seen in figure 18.2.

Acceptance criteria

 Given I am on a page of the Web site and the search bar is hidden.
 When I click on the search button in the tool bar Then the search bar is becoming visible and the search bar contains a text input field for the search term and the search bar contains a submit button and the search bar contains a search bar menu.

- 2. Given I am on a page of the Web site and the search bar is visible.When I click on the submit button in the search bar and the search term is not blank Then I am navigated to the the search page and the search results for the search term and the areas are shown.
- 3. Given I am on a page of the Web site and the search bar is visible.
 When I press the <Return> and the search term is not blank Then I am navigated to the the search page and the search results for the search term and the areas are shown.
- 4. Given I am on a page of the Web site and the search bar is visible.
 When I press the <Escape>
 Then the search bar is hidden.
- 5. Given I am on a page of the Web site and the search bar is visible.When I click on the search button on the tool bar Then the search bar is hidden.

18.1.1 Search sections



Figure 18.3: The search bar sections

198

Story

As user of the CTAN site

I want to have access to the search on each page

In order to enter the search more efficiently.

Explanations

The search takes into account several sections and the language. The sections are listed on table 18.1. The supported languages are English and German.

The page with the search sections is shown in figure 18.3.

		Table 10.1. Search Sections
Name	Letter	Meaning
PKG	Р	The search includes the packages.
AUTHORS	А	The search includes the contributors.
TOPICS	Т	The search includes the topics.
LICENSES	L	The search includes the licenses.
FILES	F	The search includes the files.
SITE	\mathbf{S}	The search includes the content pages of the site.
MIRRORS	М	The search includes the mirrors list.

Table 18 1. Search sections

Acceptance criteria

- 1. Given I am on a page of the Web site and the search bar is visible and the search bar menu is closed. When I click on the search bar menu button in the search bar Then the search bar menu is becoming visible.
- 2. Given I am on a page of the Web site and the search bar is visible and the search bar menu is opened. When I click on the search bar menu button in the search bar Then the search bar menu is becoming invisible.
- 3. Given I am on any page and the search bar is open and the flag for "packages" is on When I click on the flag Then it is turned off

and the next search does not contain hits in "packages".

- 4. Given I am on any page and the search bar is open and the flag for "packages" is off When I click on the flag Then it is turned on and the next search might contain hits in "packages".
- 5. Given I am on any page and the search bar is open and the flag for "authors" is on When I click on the flag Then it is turned off and the next search does not contain hits in "authors".
- 6. Given I am on any page and the search bar is open and the flag for "authors" is off When I click on the flag Then it is turned on and the next search might contain hits in "authors".
- 7. Given I am on any page and the search bar is open and the flag for "topics" is on When I click on the flag Then it is turned off and the next search does not contain hits in "topics".
- 8. Given I am on any page and the search bar is open and the flag for "topics" is off When I click on the flag Then it is turned on and the next search might contain hits in "topics".
- 9. Given I am on any page and the search bar is open and the flag for "licenses" is on When I click on the flag Then it is turned off and the next search does not contain hits in "licenses".
- Given I am on any page and the search bar is open and the flag for "licenses" is off When I click on the flag Then it is turned on

and the next search might contain hits in "licenses".

- Given I am on any page and the search bar is open and the flag for "files" is on When I click on the flag Then it is turned off and the next search does not contain hits in "files".
- 12. Given I am on any page and the search bar is open and the flag for "files" is off When I click on the flag Then it is turned on and the next search might contain hits in "files".
- 13. Given I am on any page and the search bar is open and the flag for "help" is on When I click on the flag Then it is turned off and the next search does not contain hits in "help".
- 14. Given I am on any page and the search bar is open and the flag for "help" is off When I click on the flag Then it is turned on and the next search might contain hits in "help".
- 15. Given I am on any page and the search bar is open and the flag for "mirrors" is on When I click on the flag Then it is turned off and the next search does not contain hits in "mirrors".
- 16. Given I am on any page and the search bar is open and the flag for "mirrors" is off When I click on the flag Then it is turned on and the next search might contain hits in "mirrors".
- 17. Given I am on any page and the search bar is open When I click on the entry "Reset to default" Then all flags are set to their default values and the next search does respect this settings.

18.1.2 Search history



Figure 18.4: The search page with hints

Story

As user of the CTAN site

I want to have access to my recent searches

In order to use refine one of the searches and use it again.

Explanations

The previous searches are presented in a drop-down list in the search bar. The page with the search history is shown in figure 18.4.

The search history is stored in the Browser session and not transmitted to the back-end server.

The search history contains entries from the current session. Since the search parameters are represented in the URL the Browser history can be used to keep searches for a longer time.

Acceptance criteria

- Given I am on the search page. When I submit a search Then this search is placed in the search history in the top position.
- 2. Given I am in the search panel

and no entries are recorded in the history Then the search history is not shown in the search panel.

- 3. Given I am in the search panel and some entries are recorded in the history Then the search history is shown in the search panel and the search history contains all entries in the current list and the search history contains an entry to clear the current list.
- 4. Given I am on the search page and the search history contains already an entry for the parameters of the current search.When I submit a search Then this search is placed in the search history in the top position and the old entry is removed from the history.
- 5. Given I am on the search page and the search history does not contain an entry for the parameters of the current search and the history already contains the maximal number of entries (32). When I submit a search Then this search is placed in the search history in the top position and the last entry is removed from the history.
- 6. Given I am in the search panel and the search history contains some entries. When I click on an history entry in the search history drop-down Then the parameters of the selected search replace the currently active search parameters.
- 7. Given I am in the search panel and the search history contains some entries. When I click on an history entry in the search history drop-down Then the parameters of the selected search replace the parameters in the search bar history.
- 8. Given I am in the search panel and the search history contains some entries. When I click on the entry to clear the search history in the drop-down of the search history Then the search history is reset to contain not entries.



Figure 18.5: The search results page with hits

18.2 Search results - hits list

Story

As user of the CTAN site

I want to get the list of search results

In order to use get the interesting information more easity.

Explanations

Acceptance criteria

1. _____ missing acceptance criteria

18.3 Search results - no hits

Story

As user of the CTAN site

I want to see when my search does not produce any results

In order to use refine it and search again.

Explanations

The page with an empty result list is shown in figure 18.6.

Acceptance criteria

1. _____

18.4 Search hints

Story

 \pmb{As} user of the CTAN site

I want to get hints on the mechanics of the search*In order to* use the search more efficiently.

missing explanation

missing acceptance criteria

Search on CTAN	CTAN		Q	GENE
knuthxxx		×	ৎ 🕅	, Q*
X Na saarsh	rocults			C.V
K No search	results			
Runtime: Oms Vour previous search	for `knuthxxx´ did not find any matches.			
(i) You are about to sear	rch for `knuthxxx´.			
 The search will be per the search bar to change i 	rformed in Packages, Contributors, Topics t.	, Licenses, and Help. U	se the filte	r menu in
Press RETURN or click on t	he search button to start the search.			
HELP ON SEARCHING				
	711			
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Figure 18.6: The search results page without hits



Figure 18.7: The search page with hints

Explanations

The search uses the powerful engine Apache Lucene underneath. Some of the possibilities need explanation. Those are given on the search hints page.

Acceptance criteria

1. ______ missing acceptance criteria

19 Upload a package

19.1 The uploads data

Whenever someone uploads a package to CTAN this is recorded.



Figure 19.1: The data model for uploads

The data model for the uploads is depicted in figure 19.1.

19.1.1 The class Upload

The class Upload has the following atributes:

announce contains the text for the announcement on the mailing list ctan-ann.

announcement contains the list of URLs for announcement channels.

authors contains the list of authors.

bugs contains the list of URLs for bugs channels.

confirm contains the indicator for an email confirmation to the uploader

ctanPath contains the optional proposed path on the CTAN archive. It must start with an existing directory.

dateCreated contains the creation date.

description contains the description of the uploaded package.

development contains the list of URLs for development channels.

email contains the email address of the uploader. If the upload is new then any valid email address is accepted. Otherwise the email must be one of a known active authors of the package.

home contains the list of URLs for home pages.

license contains the list of licenses.

mailinglist contains the list of URLs for mailing lists.

note contains some internal remarks to the upload managers of CTAN.

pkg contains the key of the uploaded package.

repository contains the list of URLs for source repositories.

summary contains the summary description for the uploaded package.

support contains the list of URLs for support channels.

topics contains the list of topics associated to the package.

uploader contains the name of the uploader.

version contains the version of the uploaded package. It must be different from the previous version of the uploaded package.

In addition the following association is present:

type leads to the upload type of the upload (see section 19.1.3).

file leads to the uploaded file (see section 19.1.2).

The dependencies to Author, Pkg, and Topic are not modelled as associations since at the time of the upload these instances might not exist yet. It is the task of the upload managers to create them if desirable.

19.1.2 The class UploadFile

The uploaded file contains the package in a zip archive. The zip archive contains exactly one top-level directory. The name of this directory is the package key of the uploaded package.

19.1.3 The enumeration UploadType

The upload type classifies the upload. Depending on the type different validations are applied.

The class UploadType has the following atributes:

NEW denotes a new package with announcement.

SILENT denotes the update of an existing package without announcement.

ANNOUNCE denotes the update of an existing package with announcement.

19.2 Start publishing a new package

Story

As package author (Peter Aumich)

I want to submit a new package to CTAN

In order to make it publicly available to the colleagues I am working with.

Explanations



Figure 19.2: The upload in the left navigation

The upload page can be reached via several ways:

- The "upload" entry in the left navigation (see figure 19.2)
- The "upload" card on the dashboard (see section 5.4)
- The "upload" button on the "my packages" card (see section 16.4)

Acceptance criteria

1. Given I am not logged-in

and I am on any ordinary page. Then the left navigation contains an item "Upload a package".

- Given I am logged-in and I am on any ordinary page. Then the left navigation contains an item "Upload a package".
- Given I am not logged-in and I am on any ordinary page. When I click in the left navigation on "Upload a package" Then I am navigated to the upload page.
- Given I am logged-in. and I am on my home page (/home). Then the card "My packages" contains a button "New".
- 5. Given I am logged-in.
 and I am on my home page (/home).
 When I click on the card "My packages" on the button "New" Then I am navigated to the upload page and my name and email are prefilled in the upload form.

19.3 The upload process

19.3.1 The hints step in the upload process

Story

As package author (Peter Aumich)

I want to upload tips and tricks to be considered for the preparation and upload of a new version of a package

In order to get it included in the T_EX distributions.

Explanations

The appearance is shown in figure 19.3.

Acceptance criteria

1.

missing acceptance

criteria



Figure 19.3: The hints step in the upload process

19.3.2 The package step in the upload process

Story

As package author (Peter Aumich)

I want to upload tips and tricks to be considered for the preparation and upload of a new version of a package

In order to get it included in the $\mathrm{T}_{\!E\!} \! \mathrm{X}$ distributions.

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	CTAN Package Key* bibtool The package bibtool already exists. Package name BibTool Version* 2.68 Package archive file* BibTool-2.68.zip (920.4 kB)			
	€ ВАСК	O RESET ALL		
	©2024 CTAN TEAM # CONTACT • PRIVACY			

Figure 19.4: The package step in the upload process

Explanations

The appearance is shown in figure 19.4.

Acceptance criteria

19.3.3 The author step in the upload process

Story

As package author (Peter Aumich)

I want to upload tips and tricks to be considered for the preparation and upload of a new version of a package

In order to get it included in the $\mathrm{T}_{\!E\!} \mathrm{X}$ distributions.

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2	
1 0	Hints Package Authors O Details Classification O Channels Submit
Ē	Authors/Maintainers*
*	Your name
ē	Pr Gerd Neugebauer
₩ °¢	Your emal* ☑ gene@gerd-neugebauer.de
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Figure 19.5: The author step in the upload process

Explanations

The appearance is shown in figure 19.5.

Acceptance criteria

1.

19.3.4 The classification step in the upload process

Story

As package author (Peter Aumich)

 \boldsymbol{I} want to provide a classification of package which I am just uploading

In order to help CTAN users to easier find my package.

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9	
1 0	Hints Package Authors O Details O Classification O Channels O Submit
Ē	CTAN path
*	
¢ س	S Topics
*	
	← BACK
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Figure 19.6: The classification step in the upload process

Explanations

The appearance is shown in figure 19.6.

Acceptance criteria

1.

missing acceptance criteria

19.3.5 The channels step in the upload process

Story

As package author (Peter Aumich)

 \boldsymbol{I} want to provide a channels of package which I am just uploading

In order to help CTAN users to get in touch for the various demands.

٩	
Q P	₤ Upload a package
1 ⊘	Hints Package Authors Details Classification Channels Submit
e **	Several communication channels can be specified here. Home page http://www.gerd-neugebauer.de/software/TeX/BibTool/ ×
© °≎	 Package support Mailing list
	Package announcements
	Source repository
	₿ug tracker
	Development team
	← BACK O RESET ALL → CONTINUE
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Figure 19.7: The channels step in the upload process
217

Explanations

The appearance is shown in figure 19.7.

Acceptance criteria

1.	missing
	acceptance
	criteria

19.3.6 The details step in the upload process

Story

As package details (Peter Aumich)

I want to upload tips and tricks to be considered for the preparation and upload of a new version of a package

In order to get it included in the T_FX distributions.

Explanations

The appearance is shown in figure 19.8.

Acceptance criteria

1.	missing
	acceptance
	criteria

19.3.7 The submit step in the upload process

Story

As package author (Peter Aumich)

I want to provide some explanations to th users or the CTAN team for the package which I am just uploading

In order to give the readers some hints.

Explanations

The appearance is shown in figure 19.9.



Figure 19.8: The details step in the upload process



Figure 19.9: The submit step in the upload process

missing acceptance criteria

Acceptance criteria

1. _____

19.4 Additional information for uploaders

Story

As package author (Peter Aumich)

I want to read tips and tricks to be considered for the preparation and upload of a package

In order to be sure that I do everything right.

Explanations

The page just shows a text taken from the tex-archive. The appearance is shown in figure 19.10.



Figure 19.10: The addendum for the upload

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	acceptance
	criteria

19.5 Query unprocessed packages

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2	Upioad addendum (U) Open upioads
±	③ Open package uploads
Ø	The upload managers try to process the uploaded contributions as fast as possible. Nevertheless the uploaded contributions are
₿	placed in the incoming area until an upload managers comes along and starts working on it.
*	One upload waits to be processed.
ē	Package pame
ወ	Package name Incoming date
•	
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Figure 19.11: The incoming pipeline

Story

As package author (Peter Aumich)

I want to see that my uploaded package arrived and waits for processing *In order to* be sure that I just have to wait a little bit.

Explanations

The uploads are placed in the incoming directory. From there the upload managers fetch them, process them, and finally put them into the $T_{E}X$ archive.

The users have reading access to see which packages are waiting to be processed.

- 1. Given I am on the incoming page Then the URL path shown in the browser is /upload/incoming and the favicon is the CTAN icon.
- Given I am on the incoming page and the language is English Then the page title is "Open package uploads".
- Given I am on the incoming page and the language is German Then the page title is "Offene Paket-Uploads".
- 4.

20 Online help

Users should normally not require a user manual. The Web application should make it easy to find the buttons to push. Nevertheless some questions can not be avoided. Some questions come up regularly. Thus the CTAN site tries to provide answers to some questions.

Users can try to find those answers themselves. If they ask the CTAN team then the answer can be a simple link to one of the existing answers. This reduces the repetition of work on the side of the CTAN team.

20.1 The help overview page

Story

As user of the CTAN site

I want to see which help information is available

In order to find interesting descriptions and improve my skills in using the site.

Explanations

The help overview page is a navigation page. It contains a few cards which allow the user to navigate to sub-pages. The appearance is shown in figure 20.1.

Acceptance criteria

- 1. Given I am on the help overview page Then the URL path shown in the browser is /help and the favicon is the CTAN icon.
- 2. Given I am on the help overview page and the language is English Then the page title is "Help on CTAN".
- 3. Given I am on the help overview page and the language is German Then the page title is "Über CTAN".
- 4.



Figure 20.1: The overview of help topics

20.2 The FAQ page



Figure 20.2: The FAQ overview page

Story

As user of the CTAN site

 ${\it I}$ want to get answers to questions on the CTAN site

In order to improve my using skills for the site.

Explanations

The FAQ topics are organised in groups. The overview page shows the groups and the topics contained within.

This FAQ overview page is shown in figure 20.2.

Acceptance criteria

- 1. Given I am on the change log overview page Then the URL path shown in the browser is /help/faq and the favicon is the CTAN icon.
- 2. Given I am on the change log overview page and the language is English Then the page title is "Help on CTAN".
- 3. Given I am on the change log overview page and the language is German Then the page title is "Hilfe zu CTAN".

20.3 The change log overview page

Story

4.

 \pmb{As} user of the CTAN site

I want to know which versions of the site have been published

In order to find features I don't know yet.

Explanations

The CTAN site uses semantic versioning (see [SEM]). A page is provided which lists all minor versions. From here the user can navigate to pages listing the changes of the minor version. This page is shown in figure 20.3.

Acceptance criteria

- 1. Given I am on the change log overview page Then the URL path shown in the browser is /help/changelog and the favicon is the CTAN icon.
- 2. Given I am on the change log overview page and the language is English Then the page title is "CTAN Change Log".
- 3. Given I am on the change log overview page and the language is German

missing acceptance criteria



Figure 20.3: The change log list

Then the page title is "Änderungshistorie".

4.

missing acceptance criteria

20.4 The change log page



Figure 20.4: A change log page

Story

As user of the CTAN site

I want to read about the changes of a single release of the CTAN site

In order to find features I don't know yet.

Explanations

On the page for a minor version all patches are listed. For each patch level the changes are listed. An example is shown in figure 20.4.

missing acceptance criteria

Acceptance criteria

1.

20.5 The lion page



Figure 20.5: The lion help page

Story

As user of the CTAN site (Abel Begger)

I want to know where the lion as mascot comes from

In order to get a better understanding about the community.

Explanations

The appearance of the lions help page is shown in figure 20.5.

explanations

- 1. Given I am on the lion page Then the URL path shown in the browser is /help/lion and the favicon is the CTAN icon.
- Given I am on the lion page and the language is English Then the page title is "What's with the lion?".
- 3. Given I am on the lion page and the language is German Then the page title is "Was hat es mit dem Löwen auf sich?".
- 4.

21 The TEX user groups

21.1 The LUGs data

LUG denotes a local T_EX user's group. The LUG database is mirrored from NTG at http://www.ntg.nl/lug/.

The data model for the LUGs is depicted in figure 21.1.

21.1.1 The class LUG

The class LUG represents a TEX Local User's Group. It has the following attributes:

- **code** contains the id code for the LUG. This String is at most 3 characters long. It is mandatory.
- **country** contains the ISO code of the country where the LUG is located. This String is at most 8 characters long. It is mandatory.
- **shortName** contains the short name (abbreviation) of the LUG. This String is at most 32 characters long.

fullName contains the full name of the LUG. This String is at most 128 characters long.

languages contains the list of languages supported by the LUG.

- **email** contains the email address for contacting the LUG. This String is at most 128 characters long.
- **website** contains the URL of the web site of the LUG. This String is at most 256 characters long.
- **mailinglist** contains the mailing list address for communicating with members. This String is at most 128 characters long.
- mailinglistSubscribe contains the mailing list subscription address. This String is at most 128 characters long.
- **address** optionally contains the postal address of the LUG. This String is at most 256 characters long.

numberOfMembers contains the approximated number of members of the LUG.

In addition the following associations are present:

periodical leads to the periodical of the LUG (see section 21.1.2).

account leads to the bank account of the LUG (see section 21.1.3).



Figure 21.1: The data model for LUGs

contact leads to contact points for different purposes (see section 21.1.4).

21.1.2 The class Periodical

The class Periodical represents a periodical publication of a LUG. It has the following attributes:

title contains the title of the periodical.

editor contains the name of the editor of the periodical. **email** contains the email address of the editor.

21.1.3 The class BankAccount

The class BankAccount represents a bank account of a LUG. It has the following attributes:

bankAccount contains the bank account.bankName contains the bank name.bankAddress contains the bank address.

bic contains the BIC.

 ${\sf swift}\ {\rm contains}\ {\rm the}\ {\rm SWIFT}\ {\rm code}$

21.1.4 The class LugContact

The class LugContact represents a contact point of a LUG. It has the following attributes:

name contains the name of the contact person.

email contains the email address of the contact.

phone contains the optional phone number of the contact.

fax contains the optional fax number of the contact.

address contains the address of the contact.

In addition the following associations are present:

type leads to the type (see section 21.1.5).

21.1.5 The enumeration LugContactType

The class LugContactType represents the type of a contact point. It has the following values:

POLICY_MATTERS

GENERAL_MATTERS

21.2 The TEX user groups page



Figure 21.2: The $T_{\ensuremath{\overline{E}}} X$ user groups page

Story

As T_EX user (Theodora Usher)

 ${\it I}$ want to see if there are any other $T_{E\!}X$ users in my region

In order to get in touch and maybe join them.

Explanations

The local TEX groups are mirrored from http://www.ntg.nl/lug/ and shown here for convenience. Not the full set of information is shown. Mainly the relevant contact attributes are presented.

The page shows all lugs in cards. Maybe for consistency a list view should be integrated as well.

Acceptance criteria

4.

- 1. Given I am on the T_EX user groups page Then the URL path shown in the browser is /lugs and the favicon is the CTAN icon.
- 2. Given I am on the TEX user groups page and the language is English Then the page title is "TeX User Groups".
- 3. Given I am on the TEX user groups page and the language is German Then the page title is "TeX-Nutzergruppen".
 - missing acceptance criteria

22 The markdown tester



Figure 22.1: The markdown tester

Story

As package author (Peter Aumich)

 ${\it I}~{\it want}$ to see how my README file with markdown will appear on the Web

In order to validate and improve the appearance of the markdown file.

Explanations

The appearance of the markdown tester can be seen in figure 22.1.

Acceptance criteria

- 1. Given I am on the markdown tester page Then the URL path shown in the browser is /markdown and the favicon is the CTAN icon.
- 2. Given I am on the markdown tester page and the language is English Then the page title is "Markdown Tester".
- 3. Given I am on the markdown tester page and the language is German Then the page title is "Markdown-Tester".
- 4.

missing acceptance criteria

236

23 The contact information

23.1 The contact page



Figure 23.1: The contact page

238

Story

As Beginner (Abel Begger)

 ${\it I}$ want to see get the contact information

In order to contact someone at CTAN to clarify some questions.

Explanations

The contact page is just a pure text page. It contains contact information for various channels. It is partially there to fulfill legal requirements.

Acceptance criteria

- 1. Given I am on the contact page Then the URL path shown in the browser is /contact and the favicon is the CTAN icon.
- 2. Given I am on the contact page and the language is English Then the page title is "Contact".
- 3. Given I am on the contact page and the language is German Then the page title is "Impressum".
- 4.

missing acceptance criteria

23.2 The team page

Story

As user of the CTAN site (Peter Aumich)

 \boldsymbol{I} want to know who is active for CTAN

 ${\it In \ order \ to}$ improve the understanding of the mails I receive from time to time.

Explanations

The team page is just a pure text page. It can be managed in the ctan-content repository. Note, that a separate file can be found there for each locale.

The team page can be seen in figure 23.2.



Figure 23.2: The team page

- 1. Given I am on the contact page Then the URL path shown in the browser is /team and the favicon is the CTAN icon.
- 2. Given I am on the contact page and the language is English Then the page title is "CTAN Team".
- 3. Given I am on the contact page and the language is German Then the page title is "CTAN-Team".
- 4.

missing acceptance criteria

23.3 The credits page

THE CTAN TEAM SUPPORTED BY TEX USERS GROUP AND DANTE e.V. PRESENTS
" <u>THE COMPREHENSIVE T_EX ARCHIVE NETWORK</u> "
MANAGEMENT PETRA RÜBE-PUGLIESE MANAGEMENT MANFRED LOTZ MANAGEMENT ERIK BRAUN
MANAGEMENT VINCENT GOULET MASTER GERD NEUGEBAUER ADMINISTRATION ERIK BRAUN
WER VUETIFY UTILIZING COMPONENT DROPWIZARD MAPPER HIBERNATE PROGRAMMING JAVA
PROGRAMMING LANGUAGE JAVASCRIPT SEARCH APACHE LUCENE
COMPRESSION APACHE COMMONS COMPRESS
COLLECTION MDI SERVER APACHE HTTPD CONTAINER APACHE TOMCAT DATABASE POSTGRESQL JOB QUARTZ MONITORING MIRMON FREESOUNDS.ORG

Figure 23.3: The credits page

Story

As Beginner (Abel Begger)

I want to see get the credits information

In order to get sime more background on CTAN.

Explanations

The credits page is a special page. It is designed like end credits in movies.

Nearly the same page has been present in release 2 already. Thus one side effect is to preserve the URL.

Acceptance criteria

- Given I am on the credits page Then the URL path shown in the browser is /credits and the favicon is the CTAN icon.
- 2. Given I am on the credits page and the language is English Then the page title is "CTAN credits".
- 3. Given I am on the credits page and the language is German Then the page title is "CTAN credits".

4.

missing acceptance criteria

24 The privacy page



Figure 24.1: The privacy page

Story

As beginner (Abel Begger)

I want to read the privacy policy of the CTAN site

In order to decide whether I am willing to agree and use the site more regularly.

Explanations

The privacy page is just a pure text page.

- 1. Given I am on the privacy page Then the URL path shown in the browser is /privacy and the favicon is the CTAN icon.
- 2. Given I am on the privacy page and the language is English Then the page title is "CTAN Privacy Policy".
- 3. Given I am on the privacy page and the language is German Then the page title is "CTAN-Datenschutz".
- 4.

25 The feedback dialogue



Figure 25.1: The feedback dialogue with a button for mail

Story

As registered user of the CTAN site (Peter Aumich)

I want to give feedback about the content of the CTAN site

In order to initiate an improvement of the site.

Explanations

The feedback dialogue supports the user in giving feedback. The various areas to which the feedback apply should be covered best possible.

The feedback dialogue can be seen in figures 25.1 and 25.2.

If the system can give some hint then this is done. Otherwise an email is prepared. This utilises the mail program of the current user. There the adressee, the subject and the mail body are prefilled. The user is expected to give some more details in the mail and send it. Thus we automatically get a email address for further conversation – if required.



Figure 25.2: The feedback dialogue with prepared reply

The email for the CTAN team goes to ctan@ctan.org.

The feedback is controlled by the feature feedback.form (see section 2.18). Thus it can easily be turned on and off.

Concern "pkg-data"

Concern: I have suggestions to fix an attribute of the package $\{0\}$.

Subject: CTAN: Attribute for {0}Template: Hi CTAN team,I would like to suggest the following change for package {0}:

 ${\rm «your \ turn} {\rm »}$

Here $\{0\}$ is replaced by the package name.

Concern "pkg-question"

Concern: I have a question about the package $\{0\}$.

Reply: Sorry, but the CTAN team just manages packages. To get an answer about the package $\{0\}$ contact the maintainer of the package. You should find the address in the package documentation.

Here $\{0\}$ is replaced by the package name.

Concern "pkg-suggestion"

Concern: I have a suggestion on the package $\{0\}$.

Reply: Sorry, but the CTAN team just manages packages. To suggest a modification of the package $\{0\}$ contact the maintainer of the package. You should find the address in the package documentation.

Here {0} is replaced by the package name.

Concern "pkg-other-suggestion"

concern I have a suggestion on another package.

reply Sorry, but the CTAN team just manages packages. To suggest a modification of the package contact the maintainer of the package. You should find the address in the package documentation.

Concern "page-suggestion"

Concern: I have a suggestion on the current page.

Subject: CTAN: Suggestion for {1}

Template: Hi CTAN team,

I would like to suggest the following improvement for page $\{1\}$:

«your turn»

Here {1} is replaced by the page name.

Concern "pkg-other-suggestion"

Concern: I have a suggestion on another package.

Reply: Sorry, but the CTAN team just manages packages. To suggest a modification of the package contact the maintainer of the package. You should find the address in the package documentation.

Concern "site-suggestion"

Concern: I have a suggestion on some other page.

Reply: Please visit the other page and use the feedback button there.

Concern "site-question"

Concern: I have a question about CTAN itself.
Subject: CTAN: Question
Template: Hi CTAN team, I would like ask a question about CTAN: «your turn»

Acceptance criteria

1. _____

missing acceptance criteria

26 The about page



Figure 26.1: The about page

Story

As registered user of the CTAN site (Peter Aumich)

I want to see which version of the CTAN site I am visiting

In order to determine whether the improvement for the site which I have reported might be fixed.

Explanations

The about page contains the current version and copyright references.

The about page can be seen in figure 26.1.

- 1. Given I am on the the about page Then the URL path shown in the browser is /about and the favicon is the CTAN icon.
- 2. Given I am on the the about page and the language is English Then the page title is "About CTAN".
- Given I am on the the about page and the language is German Then the page title is "Über CTAN".
- 4.

missing acceptance criteria

27 The guest book page

27.1 Showing the guest book

٩		CTAN	
A			
e			
<u>II</u>	Contraction of the local division of the loc		
٩			
2	同 Guest Book		
1	As logged-in u	ser you may leave a comment about CTAN to help other users or give	
0	Disclaimer: Ti	ne entries in the guest book represent the opinion of their respective author.	
E	This may not l	be the opinion of the CTAN team.	
*		₽ asdfasfd	
¢		asdfsafsadf	
闼		Gerd Neugebauer 2024-06-23-21-02	
°¢			
		🖻 aaaaa	
		ccccccccc	
		Gera Neugebäuer 2024-06-23 20:44	
		同 wefwef	

Figure 27.1: The guest book page

Story

As experienced user of the CTAN site (Emma Taylor, Ellie Larch)

I want to see what others have to say about the site

In order to decide whether I agree.

Explanations

The guest book is a means to leave comments on the site to be read publicly.

Bad experiences have shown that such a feature is also used by people who seek to publish their ads which are not related to the CTAN site at all. Thus we have several means to avoid this abuse:

- Only logged in users may leave a guest book entry.
- We have a list of stop words. If the submitted guest book entry contains one of those words is not accepted.
- We scan the published guest book entries from time to time and remove inadequate entries.

The appearance of the guest book is shown in figure 27.1.

Features can be used to controll the appearance of the guestbook (cf. section 2.18). The sitemap page can be controlled with the feature guestbook.page.

Acceptance criteria

- 1. Given I am on the guest book page Then the URL path shown in the browser is /guestbook and the favicon is the CTAN icon.
- Given I am on the guest book page and the language is English Then the page title is "Guest Book".
- 3. Given I am on the guest book page and the language is German Then the page title is "Gästebuch".
- 4.

missing acceptance criteria

27.2 Adding to the guest book

Story

As experienced user of the CTAN site (Emma Taylor, Ellie Larch)

 \boldsymbol{I} want to publicly congratulate the CTAN team for their work

In order to motivate the volunteers for their useful work.

Explanations

A guest book entry has a title and a text. Both are restricted in their length. In addition no HTML may be contained. HTML is filtered out automatically.

Ę	Add a guest book entry X	
You asl put	u may leave a comment about CTAN to help other users. This is no means to c questions or communicate with the contributors. This is also no means to blish unrelated messages.	
l-i The · not	e CTAN team reserves the right to remove entries from the guest book without tice.	
n I	Title	
	This value is required. It can not be left empty. 0 / 64	
Þ	Text	- ?
	Nama	
:	Gerd Neugebauer	
\sim	_{Email} gene@gerd-neugebauer.de	r 1

Figure 27.2: The guest book dialogue
Acceptance criteria

1.	missing
	acceptance
	criteria

28 The site map page

٩	CTAN 9	GENE :
	1002 0.02 <td< th=""><th>and and</th></td<>	and and
	This page provides an overview of the organization of the pages on the CTAN site.	ତ ତ ତ ତ ତ ତ ତ ତ ତ
	CTAN Change Log 1.0 ©2024 CTAN TEAM R CONTACT PRIVACY	O ABOUT

Figure 28.1: The site map page

Story

As experienced user of the CTAN site (Emma Taylor, Ellie Larch)

I want to see which pages are present

In order to see if I can find something new for me.

Explanations

The site map page contains a list depicting the structure of the site. Not all pages are shown. The pages dynamically generated from the database or the file system are left out.

The list is restricted to the pages visible for the current user.

The appearance of the sitemap is shown in figure 28.1.

The presence of the sitemap page can be enabled and disabled with the sitemap feature (see section 2.18).

Acceptance criteria

- Given I am on the site map page Then the URL path shown in the browser is /sitemap and the favicon is the CTAN icon. And the feature sitemap is enabled
- Given I am on the site map page and the language is English Then the page title is "CTAN Site Map".
- Given I am on the site map page and the language is German Then the page title is "CTAN-Seitenübersicht".

4.

29 Administration

One special role is the technical administrator. A user with this role has special rights and features of the CTAN Web application.

29.1 Navigation for the admin



Figure 29.1: The left navigation for an admin

Story

As admin (Waclaw Munn)

 ${\it I}$ want to have the admin features reachable via the left navigation

In order to to have a uniform access to these functions.

Explanations

The left navigation is sensitive to the role. If the current user has the admin role then the item "Administration" is shown (see figure 29.1).

Acceptance criteria

1.

missing acceptance criteria

29.2 The admin dashboard

Story

As admin (Waclaw Munn)

I want to have an overview page showing the admin functions

In order to to have a fast access to these functions.

Explanations

One dashboard page is presented providing access to the exposed administration functions (see figure 29.2).

Acceptance criteria

- Given I am logged-in as admin and I am on the admin dashboard page Then the URL path shown in the browser is /admin and the favicon is the CTAN icon.
- Given I am logged-in as admin and I am on the admin dashboard page and the language is English Then the page title is "Admin Dashboard".



Figure 29.2: The admin dashboard

- 3. Given I am logged-in as admin and I am on the admin dashboard page and the language is German Then the page title is "Admin-Dashboard".
- 4. _____



29.3 The users CRUD page

			CTAN			
88	~					
£	1					
<u>11\</u>	Re					
		12-			1	
~	• 1/50					
0	- Use	15				
Ŷ	T Filter				(+	New
Ø						
e	Enabled	Account	Name	Email	Locked	128/1
	S	admin	Administrator	webmaster@ctan.org	0	Î
	0	root	root	root@ctan.org	0	î
I₽	0	webmaster	webmaster	webmaster@ctan.org	0	Î
囗	0	ctan	ctan	ctan@ctan.org	0	1
÷	0	CTAN	CTAN	ctan@ctan.org	0	î.
~	0	robin	Robin Fairbairns	robin.fairbairns@cl.cam.ac.uk	0	Î
	0	7s0nica	7s0nica	standardlisting@gmail.com	0	î
	0	TimothyMex	TimothyMex	pvvvv@printall.com.ua	0	î
	0	PaveLIGArt	PaveLIGArt	pavelignatov85@mail.ru	0	î
	0	FrancisPa	FrancisPa	franciskitect@lightengroups.com	0	Î
	0	FrankgexGuru	FrankgexGuru	frankgex@listrw.com	0	î
	0	Altonpaync	Altonpaync	vaev756527@mail.ru	0	-
	©2024 CTAN '	Team Contact 🛛 😔 Privacy				ABOUT

Figure 29.3: The users CRUD page

Story

As admin (Waclaw Munn)

I want to have a CRUD page of all users of the CTAN site

In order to to perform administrative tasks on users.

The user CRUD page is a generic CRUD CRUD page which is able to show, filter, and sort authors. If the current user has the admin role then the page "users CRUD page" is accessible (see figure 29.3).

Acceptance criteria

- Given I am logged-in as admin and I am on the users crud page Then the URL path shown in the browser is /admin/users and the favicon is the CTAN icon.
- 2. Given I am logged-in as admin and I am on the users crud page and the language is English Then the page title is "Users".
- 3. Given I am logged-in as admin and I am on the users crud page and the language is German Then the page title is "Nutzer".
- 4.



29.3.1 The user dialogue

Story

As admin of the CTAN site (Waclaw Munn)

I want to edit a stop word for the users

In order to store corrections.

Explanations

The user dialogue is opened when the row in the list is clicked. It allows to see and edit all attributes of the selected entity.

The appearance of the "user dialogue" is shown in figure 29.4.

Acceptance criteria

1. Given I am logged-in as admin and I am on the user stop words page

P EDIT	THIS USER	×
Acc adr	ount nin	_
🗹 Enab	led	
a≡ Adi	^{ne,} ministrator	_
🖌 Shov	v name	
er Ger	nder 💌	
wel	master@ctan.org	_
🗸 Shov	v email	ie
✓ HTM	L email	:6
O Loc	cation	- 1
🐣 Aut	thor key	
_ ≡ Sel	f description	
Lock	ed	-
Acco	unt expired	
🗌 Pass	word expired	
Date	e created 06-2012 06:58:59	
🗌 Hyph	ienate	
• Pas	ssword	
Pole	is oject Object]	-
🐕 Ski	n	
	H SAVE × ABORT	ie ie
DRIACI DA	nieiPréodiela onesecinua@gmail.com	false

Figure 29.4: The user dialogue

2.

When I select an item in the list Then the dialog user stop words opens and the dialog title is "Edit this user stop word" and all attributes of the entity are present and all attribute values of the entity are shown.

> missing acceptance criteria

29.4 The users stop words

A users stop word is a string. The CTAN site ensures that a user with such a name can not be registered. This is used as filter to avoid SPAM users. The comparison is performed case-insensitive.

٩	CTAN	Q 🐣 : gene
部 合	STUD (
<u>∎</u>		
0	₽ ₀ User Stop Words	
⊥ ⊘	Filter	+ New
	Stop word	29/29
	dante	Î
	tug	Î
₽	gutenberg	1
囗	uk-tug	Î
-	matex	Î
	istex	Î
	guit	Î
	ntg	Î
	gust	Î
	cyrtug	Î
	admin	Î
	administrator	
	VZUZACIAN TEAM TO CONTACT O PRIVACY	Ο ΑΒΟυτ

29.4.1 The users stop words list

Figure 29.5: The users stop words list

missing acceptance criteria

Story

As admin of the CTAN site (Waclaw Munn)*I want* to see the list of stop words for the guestbook*In order to* decide whether an addition is required.

Explanations

The user stop words list is a generic CRUD list which is able to show, filter, and sort users stop words. If the current user has the admin role then the page "users stop words list" is accessible (see figure 29.5).

Acceptance criteria

- Given I am logged-in as admin and I am on the user stop words list page Then the URL path shown in the browser is /admin/user-stops and the favicon is the CTAN icon.
- 2. Given I am logged-in as admin and I am on the user stop words list page and the language is English Then the page title is "User stop words".
- 3. Given I am logged-in as admin and I am on the user stop words list page and the language is German Then the page title is "Nutzer-Stoppworte".
- 4.

29.4.2 The user stop words dialogue

Story

As admin of the CTAN site (Waclaw Munn)

I want to edit a stop word for the users

In order to store corrections.

/ E	DIT THIS USER STOP WORD	×
\oslash	Stop word tug	_
	LE SAVE × ABORT	

Figure 29.6: The user stop words dialogue

The user stop words dialogue is opened when the row in the list is clicked. It allows to see and edit all attributes of the selected entity.

The appearance of the "user stop words dialogue" is shown in figure 29.6.

Acceptance criteria

- Given I am logged-in as admin and I am on the user stop words page When I select an item in the list Then the dialog user stop words opens and the dialog title is "Edit this user stop word" and all attributes of the entity are present and all attribute values of the entity are shown.
- 2.

29.5 The roles CRUD page

Roles describe which functions can be applied by a user. Roles have to be anchored in the code. Thus the administration of the roles on the Web is not required.



Figure 29.7: The roles CRUD page

Story

As admin (Waclaw Munn)

I want to have a CRUD page of all roles of the CTAN site

In order to to perform administrative tasks on the roles.

Explanations

The role page is a generic CRUD page which is able to show, filter, and sort roles. If the current user has the admin role then the page "role CRUD page" is accessible (see figure 29.7).

Acceptance criteria

- Given I am logged-in as admin and I am on the roles crud page Then the URL path shown in the browser is /admin/licenses and the favicon is the CTAN icon.
- 2. Given I am logged-in as admin and I am on the roles crud page and the language is English Then the page title is "Roles".
- 3. Given I am logged-in as admin and I am on the roles crud page and the language is German Then the page title is "Rollen".
- 4.

missing acceptance criteria

29.6 The tickets CRUD page

Tickets are means authorise a user to perform a protected task. For instance the creation of new account is such a protected task. The ticket is created and persisted in the database. The ticket is sent to the user by email which contains a link to trigger the function. It contains the ticket to authorise the invocation.

Tickets have a limited time to live, Afterwards it is invalidated and can not be used any more.

		CTAN		
	1	MICOTAG &	ETELICK	TE
र ? € ©	Tickets			
•	User	Created	Key	47/47
	Hasindri Watawana	2020-04-11 20:13:03	R-c562394df4c6de682de3b9293a88c1e01502618c	Î
	KamilasaSk	2020-04-11 20:26:48	R-036945617ee7824ea84ba187474c680c104b682c	î
ē	saleemamsha	2020-04-12 01:52:41	R-ea33879bac1c0eb59ebfbf00b9d82458c2b28844	Î
Ø	Larrygeado	2020-04-09 01:33:01	R-5a21a6a69d42c80945dba462542cf45fbaa45add	Î
	Tommyvek	2020-04-09 02:01:05	R-9c8d1a03e8c0a4db02092a4b65b9ffc7497d3092	i i
. т	Matthewtraws	2020-04-09 14:11:01	R-f8eb4730b1e83897c412523728fcd0f23e9833e9	Î
	JefferyLough	2020-04-09 15:32:52	R-9b4b4a66e9bb8317de4f46ac5d68dad80f4257e8	Î
	Edwardfef	2020-04-10 11:33:11	R-796174d4cc54c0fd17a3c78d0617e239a1757a8c	î
	ErnestScawn	2020-04-10 11:38:49	R-d1f8651c1f43fa5c2bac36a4509d2b781d1dec3a	î
	DavidMum	2020-04-11 15:39:35	R-ae9461ab7a61fca4b364dc7f29ce262f90a351ab	Î
	tatimamando	2020-04-11 18:57:25	R-01037f3360206bb60049eef4f668b5f121017c48	î
	borisfishinov	2020-04-12 06:56:18	R-a24a588b52d8421bbb79ef2ba1bf04ffc31cc29e	-
	CONTACT 🖸 CONTACT	PRIVACY 2020-04-08 19:11:33		🛈 Авоит

Figure 29.8: The tickets CRUD page $% \left({{{\rm{CRUD}}}} \right)$

Story

As admin (Waclaw Munn)

I want to have a CRUD page of all tickets of the CTAN site

In order to to perform administrative tasks on the tickets.

Explanations

The tickets CRUD page is a generic CRUD page which is able to show, filter, and sort tickets. If the current user has the admin role then the page "tickets CRUD page" is accessible (see figure 29.8).

Acceptance criteria

- Given I am logged-in as admin and I am on the tickets crud page Then the URL path shown in the browser is /admin/tickets and the favicon is the CTAN icon.
- Given I am logged-in as admin and I am on the tickets crud page and the language is English Then the page title is "Tickets".
- 3. Given I am logged-in as admin and I am on the tickets crud page and the language is German Then the page title is "Tickets".
- 4.

29.7 The packages CRUD page

Story

As admin of the CTAN site (Waclaw Munn)

I want to see the list of packages

In order to manage the entries.

Missing figure	
-------------------	--

Figure 29.9: The packages CRUD page

The packages list is a generic CRUD list which is able to list, filter, and sort the packages. If the current user has the admin role then the page "packages CRUD page" is accessible (see figure 29.9).

Acceptance criteria

- Given I am logged-in as admin and I am on the packages crud page Then the URL path shown in the browser is /admin/packages and the favicon is the CTAN icon.
- Given I am logged-in as admin and I am on the packages crud page and the language is English Then the page title is "Packages".
- Given I am logged-in as admin and I am on the packages crud page and the language is German Then the page title is "Pakete".
- 4.

missing acceptance criteria

29.8 The authors CRUD page

Story

As admin of the CTAN site (Waclaw Munn)

I want to see the list of authors

In order to manage the imported data.

Missing figure				
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Figure 29.10: The authors CRUD page

Explanations

The authors list is a generic CRUD list which is able to show, filter, and sort authors. If the current user has the admin role then the page "authors list" is accessible (see figure 29.10).

Acceptance criteria

- Given I am logged-in as admin and I am on the authors crud page Then the URL path shown in the browser is /admin/authors and the favicon is the CTAN icon.
- Given I am logged-in as admin and I am on the authors crud page and the language is English Then the page title is "Contributors".
- Given I am logged-in as admin and I am on the authors crud page and the language is German Then the page title is "Beitragende".
- 4.

missing acceptance criteria

29.9 The topics list

Story

As admin of the CTAN site (Waclaw Munn)I want to see the list of topicsIn order to manage the entries.

Missing figure	
-------------------	--



The topics page is a generic CRUD page which is able to show, filter, and sort topics. If the current user has the admin role then the page "topics CRUD page" is accessible (see figure 29.11).

Acceptance criteria

- Given I am logged-in as admin and I am on the topics crud page Then the URL path shown in the browser is /admin/topics and the favicon is the CTAN icon.
- Given I am logged-in as admin and I am on the topics crud page and the language is English Then the page title is "Topics".
- Given I am logged-in as admin and I am on the topics crud page and the language is German Then the page title is "Themen".
- 4.

missing acceptance criteria

29.10 The licenses CRUD page

Story

As admin of the CTAN site (Waclaw Munn)

I want to see the list of licenses

In order to manage the licenses.

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<u>II</u>			
Q		35555555555	
Ì	✤ Licenses		
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Ŷ	Filter		+ NEW
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	Кеу	Name	66/66
	bsd4	BSD License	1
	gpl3+	GNU General Public License, version 3 or newer	1
	nocommercial	No Commercial Use	1
0	cc-by-nc-nd-3	CC BY-NC-ND 3.0	1
a	bsd	BSD Style License	1
*	cc-by-1	CC BY 1.0	1
	apache2	Apache License, version 2.0	1
	cc-by-nc-nd-4	CC BY-NC-ND 4.0	1
	nosource	No Source Available	1
	lgpl2.1	GNU Lesser General Public License 2.1	1
	gpl3	GNU General Public License, version 3	1
	opl	Open Publication License	-
	©2024 CTAN TEAM I® CONTACT	Pherodese Font Source License (GFSL)	

Figure 29.12: The licenses CRUD page

The licenses list is a generic CRUD list which is able to present, filter, and sort licenses. If the current user has the admin role then the page "licenses CRUD page" is accessible (see figure 29.12).

Acceptance criteria

- Given I am logged-in as admin and I am on the licenses crud page Then the URL path shown in the browser is /admin/licenses and the favicon is the CTAN icon.
- 2. Given I am logged-in as admin and I am on the licenses crud page and the language is English Then the page title is "Licenses".
- Given I am logged-in as admin and I am on the licenses crud page and the language is German Then the page title is "Lizenzen".

4.

29.10.1 The license dialogue

Story

As admin of the CTAN site (Waclaw Munn)

I want to edit a license

In order to change an attribute.

Explanations

On the licenses list the edit dialogue can be opened (see figure 29.13).

Acceptance criteria

1.



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E	Name The LaTeX Project Public License 1.2	
Ð	Url	
=	Details	
\checkmark	Free	
\checkmark	Selectable	
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Figure 29.13: The licenses edit dialogue

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ē	MOTD	<a href="http://www.gust.org.pl/news/r-i-p-staszek-wawrykiewicz-</th><th>2018-01-13</th><th>2015-01-24</th><th></th></tr><tr><th>Ē</th><th></th><th>1">K.I.P. <dr></dr>Staszek wawrykiewicz	12:00:00	12:00:00	
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Figure 29.14: The messages CRUD page

29.11 The messages CRUD page

Story

As admin of the CTAN site (Waclaw Munn)

I want to see the list of messages

In order to manage the entries.

Explanations

The messages list is a generic CRUD list which is able to show, filter, and sort votes. If the current user has the admin role then the page "messages CRUD page" is accessible (see figure 29.14).

Acceptance criteria

- Given I am logged-in as admin and I am on the messages crud page Then the URL path shown in the browser is /admin/messages and the favicon is the CTAN icon.
- 2. Given I am logged-in as admin and I am on the messages crud page and the language is English

Then the page title is "Messages".

- 3. Given I am logged-in as admin and I am on the messages crud page and the language is German Then the page title is "Nachrichten".
- 4.

missing acceptance criteria

29.12 The uploads list

			CTAN		
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9 E	Package	Version	Uploader	Date	64/14133
•.	graphicxpsd	1.0	Munehiro Yamamoto	1/26/2018	1
<u> </u>	oberdiek	2018-01-21	David Carlisle	1/26/2018	Î
¢	bidi	32.5 2018-01-27	Vafa Khalighi	1/26/2018	Î
m	reledmac	2.26.5 2018-01-28	Maïeul Rouquette	1/28/2018	
o	heuristica	1.07	Michael Sharpe	8/10/2014	
*	garamondx	1.08	Michael Sharpe	8/13/2014	i
	hobby	1.6	Andrew Stacey	8/16/2014	Î
	eledmac-eledpar	1.12.5-1.8.2	Maïeul	8/28/2014	Î
	biblatex-oxref	0.11.1 2018-01-26	Alex Ball	1/26/2018	
	rutitlepage	2.3 2019-05-09	Mart Lubbers	5/10/2019	i
	parisa	0.1	Vafa Khalighi	9/13/2014	i
	toptesi	5.71		3/28/2013	Î
	©2024 CTAN TEAM	CONTACT 8-0 PRIVACY			

Figure 29.15: The upload CRUD page

Story

As admin of the CTAN site (Waclaw Munn)

I want to see the list of upload records

In order to manage the entries.

The uploads page is a generic CRUD page which is able to show, filter, and sort uploads. If the current user has the admin role then the page "uploads CRUD page" is accessible (see figure 29.15).

Acceptance criteria

- Given I am logged-in as admin and I am on the upload crud page Then the URL path shown in the browser is /admin/upload and the favicon is the CTAN icon.
- 2.

29.12.1 The upload record dialogue

Story

As admin of the CTAN site (Waclaw Munn)

I want to edit a upload record

In order to apply corrections.

Explanations

The upload record dialogue is opened when the row in the list is clicked. It allows to see and edit all attributes of the selected entity.

The appearance of the "upload record dialogue" is shown in figure 29.16.

Acceptance criteria

 Given I am logged-in as admin and I am on the upload record page When I select an item in the list Then the dialog upload record opens and the dialog title is "Edit this guest book stop word" and all attributes of the entity are present and all attribute values of the entity are shown.

2.

missing acceptance criteria

277

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	٩	Package oberdiek			
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	o C t	Uploader David Carlisle			
	\square	Email ho-tex@tug.org			
		Notes trying ctan-o-mat instead of upload form			
			-		
	.	Author Heiko Oberdiek	- 13		
	İ	Date created 1/26/2018, 10:54:01 AM	12		
		CTAN path /macros/latex/contrib/oberdiek	- 12		
		Summary A bundle of packages submitted by Heiko Oberdiek	12		
		Description	12		
			12		
			12		
	\bigcirc	Topics	12		
Con	ACT.	Assertion Nicola Talbot	1271		

Figure 29.16: The upload record dialogue

29.13 The incoming CRUD page



Figure 29.17: The incoming CRUD page

Story

As Web master (Waclaw Munn)

I want to see the incoming directory

In order to to delete a submitted file which contains errors.

Explanations

Acceptance criteria

- Given I am logged-in as admin and I am on the incoming crud page Then the URL path shown in the browser is /admin/incoming and the favicon is the CTAN icon.
- 2.

29.14 The guest book CRUD page

Story

As admin of the CTAN site (Waclaw Munn)

I want to see the list of guest book entries

In order to manage the entries.

missing explanations



Figure 29.18: The guestbook CRUD page

The guestbook list is a generic CRUD list which is able to show, filter, and sort guestbook entries. If the current user has the admin role then the page "guestbook CRUD page" is accessible (see figure 29.18).

Acceptance criteria

- Given I am logged-in as admin and I am on the guestbook crud page Then the URL path shown in the browser is /admin/guestbook and the favicon is the CTAN icon.
- Given I am logged-in as admin and I am on the guestbook crud page and the language is English Then the page title is "Admin Guest Book".
- 3. Given I am logged-in as admin and I am on the guestbook crud page and the language is German Then the page title is "Admin-Gästebuch".
- 4.

missing acceptance criteria

29.15 The guest book stop words

The stop words are use to block guest book entries before they are visible on the CTAN site. This is used as filter to avoid SPAM messages.

٩	CTAN	Q 🚔 :
	STOP OP	0,(5)
Q ⑦ ⊉ Ø	Stop words for the guest book	+ New
	Stop word ↑ alcoholism analgesic atm ATM barrybelda bengalore breastfeeding	64/77
	Calories Cancer Cannnabis Caster ©2024.CTAN TEAM @ CONTACT © PRIVACY	C About

Figure 29.19: The guest book stop words list

29.15.1 The guest book stop words list

Story

As admin of the CTAN site (Waclaw Munn)*I want* to see the list of stop words for the guest book*In order to* decide whether an addition is required.

Explanations

The guest book stop words list is a generic CRUD list which is able to show, filter, and sort guest book stop words. If the current user has the admin role then the page "guest book stop words list" is accessible (see figure 29.19).

Acceptance criteria

- Given I am logged-in as admin and I am on the guest book stop words list page Then the URL path shown in the browser is /admin/guestbook-stopwords and the favicon is the CTAN icon.
- 2. Given I am logged-in as admin and I am on the guest book stop words list page and the language is English Then the page title is "Guest book stop words".
- 3. Given I am logged-in as admin and I am on the guest book stop words list page and the language is German Then the page title is "Gästebuch-Stoppworte".
- 4.

29.15.2 The guest book stop words dialogue

Story

As admin of the CTAN site (Waclaw Munn)

I want to edit a stop word for the guest book

In order to store corrections.

EDIT THIS GUEST BOOK STOP WORD	×
Stop word probiotics	<u>×</u>
LE SAVE × ABORT	

Figure 29.20: The guest book stop words dialogue

The guest book stop words dialogue is opened when the row in the list is clicked. It allows to see and edit all attributes of the selected entity.

The appearance of the "guest book stop words dialogue" is shown in figure 29.20.

Acceptance criteria

- Given I am logged-in as admin and I am on the guest book stop words page When I select an item in the list Then the dialog guest book stop words opens and the dialog title is "Edit this guest book stop word" and all attributes of the entity are present and all attribute values of the entity are shown.
- 2.

29.16 The votes CRUD page

Story

As admin of the CTAN site (Waclaw Munn)

I want to see the list of votes

In order to manage the entries.



The votes page is a generic CRUD page which is able to show, filter, and sort votes. If the current user has the admin role then the page "votes CRUD page" is accessible (see figure 29.21).

Acceptance criteria

- Given I am logged-in as admin and I am on the votes crud page Then the URL path shown in the browser is /admin/votes and the favicon is the CTAN icon.
- Given I am logged-in as admin and I am on the votes crud page and the language is English Then the page title is "Votes".
- 3. Given I am logged-in as admin and I am on the votes crud page and the language is German Then the page title is "Bewertungen".
- 4.

missing acceptance criteria

29.17 The LUGs CRUD page

Story

As admin of the CTAN site (Waclaw Munn)I want to see the list of LUGs

In order to manage the entries.

Missing figure	
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The lugs list is a generic CRUD list which is able to show, filter, and sort lugs. If the current user has the admin role then the page "LUGs CRUD page" is accessible (see figure 29.22).

Acceptance criteria

- Given I am logged-in as admin and I am on the LUGs crud page Then the URL path shown in the browser is /admin/lugs and the favicon is the CTAN icon.
- 2. Given I am logged-in as admin and I am on the LUGs crud page and the language is English Then the page title is "LUGs".
- 3. Given I am logged-in as admin and I am on the LUGs crud page and the language is German Then the page title is "Nutzergruppen".
- 4.

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	団 T _E X arc	hive notes		
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3	Path	English	German	64/65
	/	This is the root of the Comprehensive TeX Archive Network directory tree	Dies ist die Wurzel des Verzeichnisbaums des Comprehensive TeX Archive Network	ĩ
	/biblio	Systems for maintaining and presenting bibliographies within documents typeset using TeX	Systeme zur Pflege und Präsentation von Bibliographien in Dokumenten, die mit TeX gesetzt werden	Ŧ
	/digests	Collections of TeX mailing list digests, TeX- related electronic magazines, and indexes, etc., of printed publications	Sammlungen von TeX-Mailing-Listen, elektronische Magazine mit TeX-Bezug und Indices etc. von gedruckten Veröffentlichungen	Ŧ
	/dviware	Printer drivers and previewers, etc., for dvi files	Druckertreiber und Anzeigeprogramme etc. für dvi-Dateien	ĩ
	/fonts	Fonts written in Metafont, and support for using fonts from other sources (e.g., those in Adobe Type 1 format)	Schriften in Metafont und Unterstützung für die Verwending von Schriften aus anderen Quellen (z.B. solche im Adobe-Type-1-Format)	ī
	/graphics	Systems and TeX macros for producing graphics	Systeme und TeX-Macros zur Erstellung von Grafiken	Î.
	/help	FAQs (de, fr, uk) and similar direct	FAOs (de, fr, uk) und ähnliche Hilfen; der	
	©2024 CTAN TEAM	CONTACTCE; OPRIVATOGUE		

Figure 29.23: The file notes list page

29.18 The file notes

29.18.1 The file notes list

Story

As admin of the CTAN site (Waclaw Munn)

I want to see the list of file notes

In order to decide whether an addition is required.

Explanations

The file infos list is a generic CRUD list which is able to show, filter, and sort file infos. If the current user has the admin role then the page "file infos list" is accessible (see figure 29.23).

Acceptance criteria

- Given I am logged-in as admin and I am on the file infos list page Then the URL path shown in the browser is /admin/file-infos and the favicon is the CTAN icon.
- 2. Given I am logged-in as admin and I am on the file infos list page and the language is English Then the page title is "File infos".
- 3. Given I am logged-in as admin and I am on the file infos list page and the language is German Then the page title is "Datei-Infos".
- 4.

29.18.2 The file info dialogue

Story

As admin of the CTAN site (Waclaw Munn)

I want to edit a file note

In order to store corrections.

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Fc				ir di
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Figure 29.24: The file notes dialogue
Explanations

The file note dialogue is opened when the row in the list is clicked. It allows to see and edit all attributes of the selected entity.

The appearance of the "file notes dialogue" is shown in figure 29.24.

Acceptance criteria

 Given I am logged-in as admin and I am on the file notes page When I select an item in the list Then the dialog file notes opens and the dialog title is "Edit this file note" and all attributes of the entity are present and all attribute values of the entity are shown.

Appendix

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Index

A a11

ally
about
acceptance criteria 14
accessibility see ally
account
accounts
admin
authors
dashboard
file notes
guest book
guest book stop words 280–283
incoming
licenses
lugs
messages
packages
roles
topics
upload
user
user stop words
votes
admin (role) 65
admin navigation 256
administration
announcements 150
Atom 155, 156
author
authors 134

В

becoming CDN page	165
browse	107
BSD 3-clause license	291

С

capitalisation 23
card metaphor 63
CDN 157–159
CDN dashboard page 159–161
CDN monitor page 162
CDN page 162
cdn pages 157–167
CDN registration page $165-167$
CDN servers page 161
change log 228
class diagrams 14
colors
configurability by features
contact 237–238, 241
content
content delivery network see cdn
contributor see author

cover page
credits 46
credity
CTAN ann tile
CTAN logo button 49
ctan-ann

D

	3
data model	
Account class 16	8
Author class $\dots \dots $	4
AuthorEmail class 13	6
AuthorRef class 13	6
BankAccount class	3
Contact class 15	8
Continent class 15	8
Country class 15	8
Gender enumeration 13	5
License class 14	15
LicenseIntro class 14	6
LicenseText class 14	6
LUG class	1
LugContact class 23	3
LugContactType enumeration	3
Mirror class 15	7
NameFormat enumeration 13	5
Package class 11	6
PackageAlias class 11	9
PackageCaption class 11	8
PackageCopyright class 11	8
PackageDescription class	8
PackageDoc class 11	9
Periodical class 23	3
Rating class 12	20
Role enumeration 16	9
Topic class 14	0
TopicDeails class 14	0
Upload class 20	18
UploaderRef class 11	9
UploadFile class 20	9
UploadType enumeration 21	0
dialogue	5
feedback	7
did-you-know tile 10	14
distributions tile 10	1
DVD tile 10	0

Ε

epic		14
------	--	----

F

favicon	53
feature	6
feedback.form7	5

guestbook.page
guestbook.public75
pkg.install.mactex
pkg.install.miktex
pkg.install.texlive
nkg ratings 75
siteman 63 75 255
test 75
tile deed 75 101
tile.dvd
tile.wanted
visited.indicator
visited.page
votes.my
feed
Atom 155, 156
RSS 154
feedback
feedback.form (feature)
font family
font shape 22
fonts 91–99
footor 59
100161 90

Index

G

guest book	250-253
guestbook.page (feature)	75, 251
guestbook.public (feature)	75

Н

help	223-	-230
hints		. 44
home page		. 93
hyphen		. 23

1
i18n
icons
account
locked
unlocked
attribute
account
author \dots 34
ctan-ann
email
feedback
filter
guestbook
license
lug
message
mirror 35
pkg
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stopword
tex-archive-notes
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attribute value
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2

3	37
dark	38
empty 37	38
onabled false	37
onabled true	37
orror	30
erior	00 90
exists	30
I	37
full	38
g	37
halt	38
light	38
locked.false	37
locked.true	37
m	37
new	38
off	37
ok	38
on	37
type free	37
type nonfree	37
type unknown	37
v	37
hreadammh	51
breadcrumb	49
sep	42
button	90
account.delete	38
author.confirm	38
back	38
backward	38
browse	38
clear	38
close	38
create	38
ctrl.next	38
ctrl.pause	38
ctrl.play	38
ctrl.previous	38
delete	38
download	39
feedback	39
filter	39
foreward	39
guestbook add	30
help off'	30
help on	39
link	30
login	20
login	39
logout	39
menu.down	39
menu.left	39
menu.right	39
menu.search	39
menu.search.close	39
menu.search.open	39
mirror.submit	39
no	39
pkg.docs.src	39
$\operatorname{reset} \ldots	39
save	39
search	39
search.close	39

search.help	39
search.history	39
search.open	39
search.reset	39
settings	39
upload	39 20
	39
user.cards	40
user.settings	40
view-cards	40
view.iist	40
view.settings	40
	40
yes	40
distribution intro	91
distribution master	01 91
distribution miktor	21
distribution tayliyo	01 91
distribution.texnive	01 91
	31
licenses	01 91
lugs	31
message	31
mirrors	31
раскаде	31
password	31
statistics.upload	31
tex	31
tex-archive	31
topics	32
11DIO20	~ /
upioud	02
wanted	$32 \\ 32$
wanted	32
delimiter	32 32 42
delimiter	32 32 42
wanted carousel delimiter dialog confirm	 32 32 42 42 42 42
wanted carousel delimiter dialog confirm guestbook.add	 32 32 42 42 42 42 42 42 42
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wanted carousel delimiter dialog confirm guestbook.add login password	 32 32 42 42 42 43 43 42
wanted carousel delimiter dialog confirm guestbook.add password refresh	 32 32 42 42 42 43 43 43 43
wanted carousel delimiter dialog confirm guestbook.add password refresh register	 32 32 42 42 42 43 43 43 43 43
wanted carousel delimiter dialog confirm guestbook.add login password refresh register reset	 32 32 42 42 42 43 43 43 43 43
wanted	 32 32 32 42 42 42 43 43 43 43 43
wanted	 32 32 32 42 42 43 43 43 43 33 22
wanted	 32 32 32 42 42 43 43 43 43 33 33 32
wanted	 32 32 42 42 42 43 43 43 43 33 33 33 32
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wanted	 32 32 32 42 42 43 43 43 43 33 33 33 33 33 33 33 33
wanted	 32 32 32 42 42 43 43 43 43 33
wanted	 32 32 32 42 42 43 43 43 43 33 34 35 36 37 38 39 39 30 31 32 34 35 35 36 37 36 37 38 39 39 30 30 31 32 34 35 36 37 38 39 39 30 30 31 32 34 35 35 36 37 38 39 39 30 30 31 32 34 35 35 36 37 36 37 38 39 39 30 30 31 32 34 35 36 37 38 39 39 30 30 31 32 34 35 35 36 36 36 37 38 39 39 30 30 31 32 34 35 35 36 36 37 38 39 39 30 30 31 32 34 35 36 <
wanted	 32 32 32 42 42 43 43 43 43 33 34 35 36 37 38 39 39 30 30 31 32
wanted	32 32 42 42 43 43 43 43 43 43 33 33 33 33 33 33 33
wanted	32 32 42 42 43 43 43 43 43 43 43 33 33 33 33 33 33
wanted	32 32 42 42 43 43 43 43 43 43 43 43 33 33 33 33 33
wanted	32 32 42 42 43 43 43 43 43 43 43 43 43 33 33 33 33
wanted	32 32 42 42 43 43 43 43 43 33 33 33 33 33 33 33 33
wanted	32 32 42 42 43 43 43 43 33 33 33 33 33 33 33 33 33
wanted	32 32 42 42 43 43 43 43 43 43 43 33 33 33 33 33 33
wanted	32 32 42 42 43 43 43 43 43 43 33 33 33 33 33 33 33
wanted	32 32 32 42 43 43 43 43 43 33 43 43 43 43 43 4
wanted	32 32 32 42 43 43 43 33

view
file readmo 43
file by extension
arc
bib 41
boo 41
bst
dty 41
dvi
eps
gif 41
gz
hqx
ist 42
jpeg
jpg
latex
ltx
pdf
prig
stv
tex
tif 42
xz
zip
nie by name
LICENSE 41
Makefile
makefile
README 41
ReadMe 41
Readme
README md 41
file by type
d 40
d.open
directory
directory.open
1 40
other
plain
symlink 40
x
indicator
visited
error 43
i
passwd.fail
passwd.ok
item
team.tormer
team role 43
label

$my.rating \dots 43$
pkg.bibtex.key 43
list
end 43
markdown
input (3
11 mput
tab.preview 43
tab.source
page
about
account
admin
admin.catalogue
admin guestbook 29
admin guestbook stops 20
admin.guestbook.stops
admin.jobs
admin.logs 29
admin.message
admin.messages 29
admin.notifications
admin.run
admin.search
admin_tickets 29
admin uploads 20
admin.uploads
admin.user-stops
admin.users 29
announcement 29
api
api.json
api.xml
browse
cdn
cdn become 29
cdn list 20
cdn monitor 20
cdn.register
changelog 30
changelog.item
$\operatorname{community}$
$contact \dots 30$
cover
credits
ctan-ann
filter list
filter none 30
ruestbook 30
holp 20
1 l l /
nelp.ctan
help.faq
help.lion
help.lion.files 30
help.markdown 30
home
incoming 30
item 30
licenses 30
luos 20
markdown 20
mu data 20
my.uata
my.packages
packages 30
privacy 30

search	30
sitemap	30
team	30
tex-archive	31
tickets	31
topics	31
upload	31
upload.file	31
upload.incoming	31
user.home	31
user.public	01 91
pkg	51
orphaned	13
role	40
admin	43
search	10
message E	43
message.L.	44
section	
contributions	44
ison	44
my settings	44
note	44
nackages	44
plickages	44
ratings all	44
ratings my	13
etar	40
empty	44
full	11
half	11
tab	44
download	30
files	32
inctall	32
install nkg	32
markdown	32
markdown	32
my packages	32
my pages	32
my.pages	32
my visited	32
nackage	32
nackages	32
nkg abstract	32
pkg.abbitact	32
nkg hibtey	32
pkg.bibtex	32
pkg.uoes	32
pkg.install download	32
pkg.install.uowinoad	32
pkg.install.inactex	32
pkg.install.inktex	22
nko ratinos	33
pkg.raungs nkg summary	33
ratings	33
readme	32
visited	33
tin	50
title	44
images	44
	1 .1

incoming	221 - 222
$internationalisation\ldots\ldots\ldots\ldots\ldots$	see $i18n$

K

key
Escape 197
Return 197
L
language
English
German
left navigation 59–63
license
license page 149
licenses page 146–149
links
local user groups
login button
logos
LŪG
lug see local user groups

М

markdown tester 236
material design 16
material design guidelines 22
messages
minus
$\operatorname{mirror} \ldots \ldots \ldots \ldots \ldots \qquad \operatorname{see} \operatorname{cdn}$
motd

Ν

navigation	
admin	256
navigation control button	. 49
news 154-	-156

0

online help			223
Open Sans	$\mathrm{font}\ldots\ldots\ldots\ldots\ldots\ldots$. 21	, 22

Ρ

package 116–119
package pages 124–132
package rating 120
packages page 121–124
page
about
admin
authors
dashboard
file notes
guest book
guest book stop words 280–283
incoming
licenses
lugs
messages
packages
roles
tickets

	topics	• • • •	270
	upload		276
	user stop words	262-	-264
	users		259
	votes		283
	announcements		150
	author	137-	-139
	authors		134
	browse		107
	CDN		101
	becoming		165
	dealth aand	150	161
	dashboard	109-	101
	list	101-	-162
	monitor	1.05	162
	registration	165-	-167
	cdn	157 -	-167
	change log		228
	channels	216-	-217
	classification		215
	contact	-238,	241
	cover		. 93
	credits		240
	guest book	250-	-253
	help	223-	-230
	home		-03
	incoming		. 30 _ววว
	liconso	221	140
	l:	140	140
	ncenses	140-	-149
	markdown tester	• • • •	230
	ordinary		. 47
	package	124-	-132
	packages	121 -	-124
	privacy	242-	-243
	search	195 -	-207
	site map	254 -	-255
	submit	217-	-220
	team	238-	-240
	tex-archive	109-	-115
	topic	142-	-144
	topics	140-	-142
	upload	-214.	217
	upload addendum	220-	-221
	user dashboard	177-	-192
		23/-	_235
	user public	102	104
pago	content	130	63
page	content	• • • •	. 05 62
page	ICOII	••••	. 03
page	layout	••••	. 47
	content	• • • •	. 63
	error		. 69
	footer		. 58
	left navigation	59	9-63
	page icon		. 63
	page title		. 63
	tool bar		. 48
page	title		. 63
perso	ona	10)–13
•	LAT _F X user		. 12
	$T_F \widetilde{X}$ user		. 11
	Beginner		. 11
	CTAN visitor		11
	Experienced IATEX user		19
			· 14

Experienced T _E X user 12
Mirror system administrator
Package author 12
Upload manager 13
Web master 13
pkg see package
pkg.install.mactex (feature)
pkg.install.miktex (feature)
pkg.install.texlive (feature)
pkg.ratings (feature)
privacy 242–243

Q

-						
quotation	marks	• • • •	 	 	23	

R

range	23
responsive design	16
role	
admin	63
RSS 1	154

S

search bar 196–202
search button 51
search page 195–207
settings
logos
settings menu 56
site map 254–255
sitemap (feature) 63, 75, 255
statistics tile 103

Т

tables
team
test (feature)
test indicator 50
T _F X tile
tex-archive page 109–115
theme
dark 18
light
tickets
page
tile
CTAN ann
did-you-know 104
distributions 101
DVD 100
statistics 103
T _F X
title
upload
Wanted 106
tile.dvd (feature)
tile.wanted (feature)
title tile
tool bar
CTAN logo button 49
login button
navigation control button 49

search button $\ldots 51$
settings menu 56
test indicator $\dots \dots
user menu 53
tool tips
topic 140–141
topic page 142–144
topics page 140–142
typography 22–24

U

-	
upload	10
upload addendum 220–22	21
upload author	14
upload channels 216–22	17
upload classification	15
upload details	17
upload hints 2	11
upload package 2	13
upload submit 217–22	20
upload tile	99
ŪRL	47
user	59
user dashboard 177–19	92
user groups	35
user menu	53
user public page 193–19	94
user story	13

V

visited.indicator (feature)	75
visited.page (feature)	76
votes.my (feature)	76

W

Wanted tile 10)6
----------------	----