

Bachelorthesis

Titel der Abschlussarbeit

zur Erlangung des akademischen Grades

Bachelor of Science

eingereicht im Fachbereich Mathematik, Naturwissenschaften und Informatik an der Technische Hochschule Mittelhessen

von

Dieudonne Timma Meyatchie

25. Oktober 2013

Referent: Prof. Dr. Peter Kneisel

Korreferent: Herr Dennis Priefer

Erklärung der Selbstständigkeit

Hiermit versichere ich, die vorliegende Arbeit selbstständig verfasst und keine anderen als die angegebenen Quellen und Hilfsmittel benutzt sowie die Zitate deutlich kenntlich gemacht zu haben.

Gießen, den 25. Oktober 2013

Dieudonne Timma Meyatchie

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1 Einführung

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1.1 Motivation

Et harum quidem rerum facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnis voluptas assumenda est, omnis dolor repellendus.

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- 1.2 Problembeschreibung
- 1.3 Ziele dieser Arbeit
- 1.4 Abgrenzung
- 1.5 Vorgehensweise
- 1.6 Struktur der Arbeit

2 Hintergrund

3 Konzept

4 Realisierung

5 Zusammenfassung

- 5.1 Fazit
- 5.2 Auswertung
- 5.3 Weitere Ansätze
- 5.4 Nächste Schritte
- 5.5 Ausblick

Literaturverzeichnis

Abbildungsverzeichnis

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Listings

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A Anhang 1

Menu

Page

In der Untersuchung von MenuItems in Joomla stellen wir fest, dass es verschiedene Page Type existiert, die dieselbe Elementen enthalten. Diese Elemente kommen zwar nicht in allen Items, aber so oft genug, damit wir sie eine extra Entität Menuentry options in der Grammmatik widmen. Sie besteht aus selbst den Entitäten "Link type Options", "Page Display Options", "Metadata Options". Ihre Abbildungen sehen folgenden aus:

CJSL	JOOMLA
• Link Title Attribute	• menu-anchor_title
• Link CSS Style	• menu-anchor_css
• Link Image	• menu_image
Add Menu Title	• menu_text
- no yes	- 0 1

Tabelle A.1: Link Type Options

CJSL	JOOMLA
Browser Page Title Show Page Heading - no yes	page_titleshow_page_heading - 0 1
 Page Heading Page Class	page_headingpageclass_sfx

Tabelle A.2: Page Display Options

CJSL	JOOMLA
 Meta Description Meta Keywords Robots use global index, follow noindex, follow index, nofollow noindex, nofollow 	 menu-meta_description menu-meta_keywords robots Leer index,follow noindex, follow index,nofollow noindex,nofollow
• Secure - off on ignore	• secure1 1 0

Tabelle A.3: Metadata Options

Articelpage

In dem Contianer CJSL_Articlepage enthält verschiene Entitäten, die im Joomla Menuitem Type darstellen:

- Archived Articles
- Single Article
- List All Categories
- Category Blog
- Category List
- Featured Articles
- Create Article

Sie besitzen nicht nur die obengenannte Itemoptions gemeinsam, sondern auch verschiedene Entitäten, die nur bei Article Page vorkommen:

- Category Options
- Categories Options

- Blog Layout Options
- Ordering and Pagination Options
- Article Layout Options
- Integrations Options
- ArticleSettingtype
- OptionSettingtype
- MaxLevel Setting

Hier haben wir die Abbildung von den obengenannten Elemente: Die ArticleSettingtype -> ArticleStettingvalue, die ArticleOptiontype -> ArticleOptionvalue, und optionSettingtype -> optionSettingValue

CSL	Joomla
use global	leer
use article setting	use-article
hide	0
show	1

Tabelle A.4: ArticleSettingtype

CSL	Joomla
use global	leer
hide	0
show	1

Tabelle A.5: OptionSettingtype

CSL	Joomla
use global	leer
all	-1
none	0
1-5	1-5

Tabelle A.6:
MaxlevelSettingtype

CSL	Joomla
Show Feed Link - OptionSettingtype For each feed item show - use global - intro text - full text	 show_feed_link - OptionSettingvalue feed_summary - leer - 0 - 1

Tabelle A.7: Integration Options

CSL	Joomla
• Leading Articles	• num_leading_articles
• Intro Articles	• num_intro_articles
• Columns	• num_columns
• Links	• num_links
Multi Column Order	• multi_column_order
- use global	- leer 0 1
down across	

Tabelle A.8: Blog Layout Options

CSL	Joomla
 Show Top Level Category Description OptionSettingtype Subcategory Levels MaxlevelSettingtype 	 show_base_description OptionSettingvalue maxLevelcat MaxlevelSettingvalue
 Empty Categories OptionSettingtype Subcategories Descriptions OptionSettingtype 	 show_empty_categories_cat OptionSettingvalue show_subcat_desc_cat OptionSettingvalue

Tabelle A.9: Categories Options

CSL	Joomla
 Category Title OptionSettingtype Category Description OptionSettingtype 	 show_category_title OptionSettingvalue show_description OptionSettingvalue
• Category Image	• show_description_image
- OptionSettingtype	- OptionSettingvalue
• Subcategory Levels	• maxLevel
- OptionSettingtype	- OptionSettingvalue
• Empty Categories	• show_empty_categories
- OptionSettingtype	- OptionSettingvalue
• Subcategories Descriptions	• show_subcat_desc
- OptionSettingtype	- OptionSettingvalue

Tabelle A.10: Category Options

CSL	Joomla
 Display Select OptionSettingtype Filter Field OptionSettingtype Table Headings OptionSettingtype Show Date 	 show_pagination_limit OptionSettingvalue filter_field OptionSettingvalue show_headings OptionSettingvalue list_show_date
 OptionSettingtype Date Format Show Hits in List OptionSettingtype Show Author in List OptionSettingtype 	 OptionSettingvalue date_format list_show_hits OptionSettingvalue list_show_author OptionSettingvalue

Tabelle A.11: List Layout Options

CSL	Joomla
• Category Order	• orderby_pri
- Use Global No order	- leer* none
- Title Alphabetial	- alpha
- Title Reverse Alphabetical	- ralpha
- Category Manager Order	- order
Article Order	• orderby_sec
- Use Global	- leer*
- Featured Article Order	- front
- Most Recent First	- rdate
- Oldest first	- date
- Title Alphabetical	- alpha
- Title Reverse Alphabetical	- ralpha
- Author Alphabetical	- author
- Author Alphabetical Reverse	- rauthor
- Most Hits	- hits
- Leasts Hits	- rhits
- Article Manager Order	- order
Date for Ordering	• order_date
- use global created modified published	- leer created modified published
• Pagination	• show_pagination
- use global hide show auto	- leer 0 1 2
• Pagination Results	• show_pagination_results
- use global hide show	- leer 0 1

Tabelle A.12: Ordering and Pagination Options

CSL	Joomla	
• Show Title	• show_title	
- ArticleSettingtype	- ArticleSettingvalue	
• Link Titles*	• link_titles*	
• Show Intro*	• show_intro*	
• Show Category*	• show_category*	
• Link Category*	• link_category*	
• Show Parent Category*	• show_parent_category*	
• Link parent category*	• link_parent_category*	
• Show Author*	• show_author*	
• Link Author*	• link_author*	
• Show create Date*	• show_create_date*	
• Show Modify Date*	• show_modify_date*	
• Show Publish Date*	• show_publish_date*	
• Show Item Navigation*	• show_item_navigation*	
• Show Vote*	• show_vote*	
• Show Readmore*	• show_readmore*	
• Show Readmore Title*	• show_readmore_title*	
• Show Icons*	• show_icons*	
• Show Print Icon*	• show_print_icon*	
• Show Email Icon*	• show_email_icon*	
• Show Hits*	• show_hits*	
• Show Unauthorised Links*	• show_noauth*	

Tabelle A.13: Article Settings Options

 $^{\ ^*}$ bedeudet, dass der Element Article Settingtype B.z
 Aticle Settingvalue als Parameter hat.

CJSL

- 1- List all Categories
 - Basic Setting
 - Select a Category
 - Categories Options
 - + Top Level Category Description
 - + Articles in Category
 - OptionSettingtype
 - Category Options
 - + Articles in Category
 - |- OptionSettingtype
 - + No Articles Message
 - OptionSettingtype
 - Blog Layout Options
 - + Include Subcategories
 - |- MaxlevelSettingType
 - Ordering and Pagination Options
 - List Layout Options
 - + Articles to List
 - |- 5 bis 100 | all
 - Artikel Layout Options
 - Integration Options
 - Menuentry Options

JOOMLA

- .List all Categories
 - Required Setting
 - featured_categories
 - Categories Options
 - + categories_description
 - + show cat num articles cat
 - |- OptionSettingvalue
 - Category Options
 - + show cat num articles
 - |- OptionSettingtype
 - + show no articles
 - |- OptionSettingvalue
 - Blog Layout Options
 - + show subcategory content
 - |- MaxlevelSettingvalue
 - Ordering and Pagination Options
 - List Layout Options
 - + display_num
 - |- 5 bis 100 | 0
 - Artikel Layout Options
 - Integration Options
 - Menuitem Options

2- Archived Article

- Basic Setting
 - Article Order (A.12)
 - Date for Ordering (A.12)
 - Articles to List (A.11)
 - Filter Field (A.11)
 - Intro text Limit
- Artikel Layout Options
- Menuentry Options

2- Archived Article

- Required Setting
 - orderby_sec (A.12)
 - order_date (A.12)
 - display_num (A.11)
 - filter_field (A.11)
 - introtext limit
- Artikel Layout Options

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• Menuitem Options

CJSL	JOOMLA		
4- Featured Articles	4- Featured Articles		
• Required Setting	• Required Setting		
- Select Categories	- featured_categories		
	- layout_type		
• Blog Layout Options	• Blog Layout Options		
• Ordering and Pagination Options	• Ordering and Pagination Options		
• Artikel Layout Options	Artikel Layout Options		
• Integration Options	• Integration Options		
• Menuentry Options	• Menuitem Options		
5-Category Blog Article	5- Category Blog Article		
• Basic Setting	• Basic Setting		
- Select Categories	- featured_categories		
	- layout_type		
• Category Options	• Category Options		
+ Show Subcategories Text	+ show_category_heading_title_text		
- OptionSettingsType	- OptionSettingsValue		
+ Page Subheading	+ page_subheading		
+ Articles in Category	+ show_cat_num_articles		
- OptionSettingtype	- OptionSettingtype		
+ No Articles Message	+ show_no_articles		
- OptionSettingtype	- OptionSettingvalue		
• Blog Layout Options	• Blog Layout Options		
+ Include Subcategories	+ show_subcategory_content		
- MaxlevelSettingType	- MaxlevelSettingValue		
• Ordering and Pagination Options	Ordering and Pagination Options		
• Artikel Layout Options	Artikel Layout Options		
• Integration Options	• Integration Options		
• Menuentry Options	• Menuitem Options		

CJSL	JOOMLA		
6-Category List Articles	6-Category List Articles		
• Basic Setting	Basic Setting		
- Featured Categories	- featured_categories		
• Category Options	• Category Options		
+ Show Category heading Title	+ show_category_heading_title_text		
- OptionSettingsType	- OptionSettingsValue		
+ Page Subheading	+ page_subheading		
+ Articles in Category	+ show_cat_num_articles		
- OptionSettingtype	- OptionSettingtype		
+ No Articles Message	+ show_no_articles		
- OptionSettingtype	- OptionSettingvalue		
• List Layout Options	• List Layout Options		
+ Articles to List	+ display_num		
- 5 bis 100 0	- 5 bis 100 0		
Ordering and Pagination Options	Ordering and Pagination Options		
Artikel Layout Options	Artikel Layout Options		
• Integration Options	• Integration Options		
Menuentry Options	• Menuitem Options		
7-Create Article	7-Create Article		
Basic Setting	Basic Setting		
- Default category	- enable_category		
- Choose a category	- catid		
Menuentry Options	Menuitem Options		
3-Single Article	3-Single Article		
Basic Setting	• Required Setting		
- Select Article	- id		
Artikel Layout Options	Artikel Layout Options		
• Integration Options	• Integration Options		
Menuentry Options	• Menuitem Options 31		

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UserPage

Der Container USerpage besteht aus verschiedene Entitäten, die sich um die Darstellung des User widmen:

- Login Form
- User Profile
- Edit User Profile
- Registration Form
- Username Reminder Request
- Password Reset

CJSL	JOOMLA
1- Login Form	1- Login Form
• Basic Options	Basic Options
- Login Redirect	- login_redirect_url
- Login Description	- logindescription_show
- hide show	- 0 1
- Login Description Text	- login_description
- Login Image	- login_image
- Logout Redirect	- logout_redirect_url
- Logout Text	- logoutdescription_show
- hide show	- 0 1
- Logout Description Text	- logout_description
- Logout image	- logout_image
Menuentry Options	• Menuitem Options
2- Login Form	2- Login Form
• Menuentry Options	• Menuitem Options

Tabelle A.21: Userpage I

CJSL	JOOMLA		
3- User Profile	3-User Profile		
Menuentry Options	Menuitem Options		
4- Edit User Profile	4-Edit User Profile		
Menuentry Options	• Menuitem Options		
5-Registration Form	5-Registration Form		
Menuentry Options	• Menuitem Options		
6-Username Reminder Request	6-Username Reminder Request		
Menuentry Options	Menuitem Options		
7-Password Reset	7-Password Reset		
Menuentry Options	• Menuitem Options		

Tabelle A.23: Userpages II

Contacts

Wie schon bei den Articlepage, stellen wir schnell fest, dass es verschiedenen wiederkehrende Elemente gibt, die in ENtitäten umwandeln kann :

- Categories Options
- Category Options
- List Layout Options
- Contact Display Options
- Form for Email Options

	how_email_form - OptionSettingvalue
- OptionSettingtype	how_email_copy - OptionSettingvalue canned_email canned_subject canned_text calidate_session - OptionSettingtype custom_reply - OptionSettingtype edirect

Tabelle A.25: Form for Email Options

Tabelle A.26: List Layout Options

 Display format - use Global sliders - tabs plain Contact Category - use Global hide - show without link show with link show_contact_category - leer hide - show_without_link show_with_link show_with_link show_contact_list - OptionSettingtype Name* Contact's Position* Show_name* show_position* show_position* show_email* show_street_address*

- City or Suburb*
- State or County*
- Postal Code*
- Country*
- Telephone*
- Mobile phone*
- Fax*
- Webpage*
- Misc. Information*
- Image*
- vCard*
- Show User Articles*
- Show Links*
- Link A Label
- Link B Label
- Link C Label
- Link D Label
- Link E Label

- $show_suburb*$
- show_state*
- show_postcode*
- show_country*
- show_telephone*
- show_mobile*
- $show_fax^*$
- show_webpage*
- show_misc*
- $show_image^*$
- allow_vcard*
- show_articles*
- $show_links*$
- linka_name
- linkb_name
- \bullet linkc_name
- linkd_name
- linke_name

Tabelle A.28: Contact Display Options

B Anhang 2