

Kieler Kaffee Klub K³ Project*

Witzany, Jan

first1.last1@xxxxxx.com

Luick, Bastian

first2.last2@xxxxxx.com

Boottawong, Juti

first2.last2@xxxxxx.com

2019

July

Zusammenfassung

Dies ist eine kurze Zusammenfassung der Inhalte des in deutscher Sprache verfassten Dokuments.

*No procrastination

Inhaltsverzeichnis

1	Requirement	3
1.1	User Requirements	3
1.1.1	User Types	3
1.1.2	User Stories	4
2	System Requirements	10
3	Mini-Stories	11
4	SiteLang Specification	12
5	HERM-SCHEMAS	16
6	BPMN of Mini-Stories	19
7	Technology Stack	19
8	Framework	19
9	Obstacles	19
10	Outlook	19

WORKING TITLE::KAFFEESATT

Bastian Luick(1018266), Jan Witzany(1011713),
Juti Boottawong(1030476).

Scope and Specifications of the Project

To provide miscellaneous information about coffee localities through a web application with students, inbound tourists and coffee fanatics in Kiel.

VISION

Our Vision is that everyone know where they can find their suitable beverage place.

MISSION

Provide a sophisticated web application for students, inbound tourists or coffee fanatics to discover a place to relax and enjoy their favorite coffee and supply themselves with coffee making utensil.

W*H

Who will be using the system?

Students, coffee fanatics and inbound tourists that are in Kiel.

When will be the system be used?

Breaks and Lunches.

Where is the information system used?

Desktop and Mobile at home, at work, on the go, in the city, near sights.

What is represented in the system?

Available coffee sorts, price-range, picture gallery, ratings from *Google* etc., direct links to places, misc. information about coffee (fair trade, preparation process, quality criteria, provenance etc..)

How will the system be used?

Desktop and Mobile via web browser.

Why is the system used?

To find the place to enjoy coffee or buy coffee accessories.

What is the policy, intention, goal, and aim of the provider?

To share our love and knowledge of coffee with coffee drinkers, coffee providers and coffee makers in Kiel.

User & Scenarios Outline

Students much free time, high mobility in the area of Kiel (Student Ticket), bicycle routes, price sensitive
Student thirst for coffee at the university during lectures.

Inbound Tourist no knowledge of Kiel, high price tolerance.
Tourist is in the middle of the city during a day trip and want to relax with a coffee.

Coffee fanatics want to know everything about the coffee or the coffee supplements high expectation, high demand of information,
At home and want to explore novel coffee localities.

1 Requirement

1.1 User Requirements

1.1.1 User Types

Possible properties of every user type: vegan, possibility to use own mug, reusable mug, can speak and read German, every user can pay by cash, age 16-35.

Roles {Content Provider(Admin, ContentManager), User (All user types) }

Admin

Preferences: List of registered user and List of content

Behavior: Interact through desktop with web application for various task

Constraints:

Demands: Access to all content and user information possibility to delete user and add content manager.

Tasks: {CRUD of all content and user account}

Content Manager

Preferences: Concrete and specific input options.(saved options)

Behavior: Want to upload a bulk of content and previews his inputs. Watch out for changes in the coffee shops.

Constraints: must have preview of create or edit content

Demands: Input pages for various content.

Tasks: {CRUD content}

Students

Preferences: Cheap coffee, place with wlan, near bus station, buy with bitcoin

Behavior: User for orientation mobile devices and get to the locations mainly with bicycle or bus

Constraints: low funds, short on time.

Demands: Student wants to drink coffee and possibly a place to work.

Tasks: {filtering, search, look up, navigation, delete own profile, change own mail, rate shops}

Coffee fanatics

Preferences: High quality coffee, parking lot, wlan, preferable possibility to see coffee making process, have a list of favorites

Behavior: User desktop and mobile devices to find misc. information about coffee shops in Kiel. Is content with paying more than average coffee price for high quality coffee.

Always looking for new shops and coffee beverages.

Constraints: No big companies or franchises.

Demands: Fanatics to experience novel coffee specialities in kiel and buy coffee making utensils.

Tourists

Preferences: Nearby current location, card payment

Behaviour: Use mobile devices to find coffee shops in Kiel to relax and drink coffee. Is usually near sights.

Constraints: Low mobility, doesn't know localities, short on time, no big companies or franchises.

Demands: Local cafe shops that are nearby

1.1.2 User Stories

Tabelle 1: User Story: User filtering options

User Story ID:	1		
User Story Name:	Search coffee place through filtering		
Created by:	KKK	Date created: 16. Mai 2019	
Roles	Students Coffee fanatic Tourists		
Description:	The User is on the website and use the presented filtering options to look up shops.		
Preconditions:	1. Know what filtering options mean.		
Postconditions:	Is presented list of shops		
Trigger:	Search button		
Flow:	1. Click on available filtering options 2. filtering results are showed 3. browse through list		

Tabelle 2: User story detail

User Story ID:	2		
User Story Name:	User quick search		
Created by:	KKK	Date created: 16. Mai 2019	

Tabelle 2 – Continued on next page

Tabelle 2 – *Continued from previous page*

Roles	Student Tourist
Description:	User is on a break and are looking for a nearby coffee shop and use quick search function
Preconditions:	<ol style="list-style-type: none"> 1. Is on our landing page 2. Click quick search button
Postconditions:	Get a list of nearby coffee shops
Trigger:	Search button
Normal flow:	<ol style="list-style-type: none"> 1. the user clicked on the search button;

Tabelle 3: User Story Evaluation

User Story ID:	3		
User Story Name:	Evaluate coffee shop		
Created by:	KKK	Date created: 16. Mai 2019	
Roles	Student Coffee fanatic		
Description:	Evaluate Coffee shops and write a review		
Preconditions:	<ol style="list-style-type: none"> 1. The user is logged in. 		
Postconditions:	Can see his evaluation about the shop.		
Trigger:	Star symbol		
Normal flow:	<ol style="list-style-type: none"> 1. Click on a specific shop. 2. Click on star symbol. 		

Tabelle 4: User Story: Search equipment

User Story ID:	4
----------------	---

Tabelle 4 – Continued on next page

Tabelle 4 – *Continued from previous page*

User Story Name:	Search equipment		
Created by:	KKK	Date created: 16. Mai 2019	
Roles	Coffee fanatic		
Description:	Is on the equipment subpage and select filtering options.		
Preconditions:	1. Is on the equipment subpage		
Postconditions:	Show shops that fits the selected filtering options.		
Trigger:	Filtering options		
Flow:	1. Select filtering options		

Tabelle 5: User story detail

User Story ID:	5		
User Story Name:	Edit review		
Created by:	KKK	Date created: 16. Mai 2019	
Roles	All		
Description:	User edit reviews		
Preconditions:	1. The user is logged in 2. He has given reviews		
Postconditions:	Review was edited		
Trigger:	Star symbol on the shop page		
Normal flow:	1. User clicked on star symbol.		

Tabelle 6: User Story Manage Content

User Story ID:	6
User Story Name:	Manage Content

Tabelle 6 – *Continued on next page*

Tabelle 6 – *Continued from previous page*

Created by:	KKK	Date created: 16. Mai 2019	
Roles	Content-Manager Admin		
Description:	The Actor can add, edit or remove content {shop, equipment, informations, events} (do CreateReadUpdateDelete operations on content)		
Preconditions:	<ol style="list-style-type: none"> 1. The user is logged in. 2. Is on the input page. 		
Postconditions:	Selected CRUD executed on database		
Trigger:	CRUD button		
Flow:	<ol style="list-style-type: none"> 1. Fill the input forms. 2. Click either on save, delete or publish. 		

Tabelle 7: User story detail

User Story ID:	7		
User Story Name:	Login		
Created by:	KKK	Date created: 16. Mai 2019	
Roles	Student Coffee fanatic Tourist Content-Manager Admin		
Description:	The user give in the account information and presses the login button.		
Preconditions:	<ol style="list-style-type: none"> 1. user is not logged in 2. user is registered 3. account data is correct 		

Tabelle 7 – *Continued on next page*

Tabelle 7 – *Continued from previous page*

Postconditions:	User is logged in the system and is redirect to account last page. And has access to the corresponding functionality.
Trigger:	Login button
Normal flow:	<ol style="list-style-type: none"> 1. Give account data 2. click on login

Tabelle 8: User story detail

User Story ID:	8		
User Story Name:	Registration		
Created by:	KKK	Date created: 16. Mai 2019	
Roles	Student Tourist Coffee fanatic		
Description:	User register on the website.		
Preconditions:	<ol style="list-style-type: none"> 1. Is on the registration page. 2. Fill out formula with correct data 		
Postconditions:	Is registered		
Trigger:	Register button		
Flow:	<ol style="list-style-type: none"> 1. Fill out input forms 2. system checked input 3. click on registration button 		

Tabelle 9: User story detail

User Story ID:	9		
User Story Name:	Delete account		
Created by:	KKK	Date created: 16. Mai 2019	

Tabelle 9 – Continued on next page

Tabelle 9 – *Continued from previous page*

Roles	User Admin
Description:	User delete account
Preconditions:	<ol style="list-style-type: none"> 1. User has account 2. User is logged in
Postconditions:	Is automatic logged out of application and all reviews of the user are deleted.
Trigger:	Delete button
Flow:	<ol style="list-style-type: none"> 1. User clicked on delete button. 2. Verify in popup his deletion request. 3. Click delete button.

Tabelle 10: User story detail

User Story ID:	10		
User Story Name:	Manage registered user		
Created by:	KKK	Date created: 16. Mai 2019	
Roles	Admin		
Description:	Admin create content-manager and delete every other account		
Preconditions:	<ol style="list-style-type: none"> 1. User has account 2. User is logged in 		
Postconditions:	DELETE operation on database on selected user account and his reviews.		
Trigger:	Button corresponding to the action		

Tabelle 10 – *Continued on next page*

Tabelle 10 – *Continued from previous page*

Flow:	<ol style="list-style-type: none"> 1. Select user account 2. Click delete button 3. Popup 4. Select yes
-------	---

Tabelle 11: User Story: Logout

User Story ID:	11		
User Story Name:	Logout		
Created by:	KKK	Date created: 16. Mai 2019	
Roles	All		
Description:	The User is on the website and use the logout button		
Preconditions:	<ol style="list-style-type: none"> 1. User is logged in 		
Postconditions:	Is logout		
Trigger:	Logout button		
Flow:	<ol style="list-style-type: none"> 1. user clicked on the logout button. 		

2 System Requirements

Speed

- Navigation < 30 second response time.
- Filtering shops and equipment categories < 1 min response time

Product Environment

- The client must be connected with the internet during use of application
- Application works only on the following browsers Firefox, Chrome, Edge, Safari.

Privacy Policy

- Delete permanently on request user account and his reviews.
- Must allow cookie to locate the user location.
- Passwords are encrypted.

Localizability

- User interface components are in German
- Accept German specific language as input

3 Mini-Stories

Search coffee shop through filtering(all)

Landing page, search page

Preconditions: free access

Actions: select preferences to filter the shops

PostCond: shop list is updated corresponding to the selected options

Evaluate coffee shop first time(registered user)

Every page

Preconditions: Free access

Actions: Skip to login, log as corresponding role

Postconditions: Is logged as user, stayed on shop site

Content/shop/

Preconditions: (Logged in)

Action: (Evaluate shop)

Postconditions: (Evaluation of user saved to user account and recalculate average rating)

Manage Content (admin, content manager)

Every page

PreCondition: Free access

Actions: Skip to login, log as corresponding role

PostCond: Is logged in, is on account management

Account Management

Preconditions(logged in)

Actions: (Skip to Content Management)
 Postconditions: (Is on content management)

Content Management

Preconditions: (Logged in)
 Actions: (CRUD action on content)
 Postcondition: (Corresponding crud action on content)

4 SiteLang Specification

The following figures show various and distinct flow, structure and behaviour of the web information system from KAFFEESATT web application. Specifications: On every page there is the navigation bar. Furthermore it is possible to login or logout on every page as well. If user is not log in and want to use a log in feature he will be directed to the login input form.

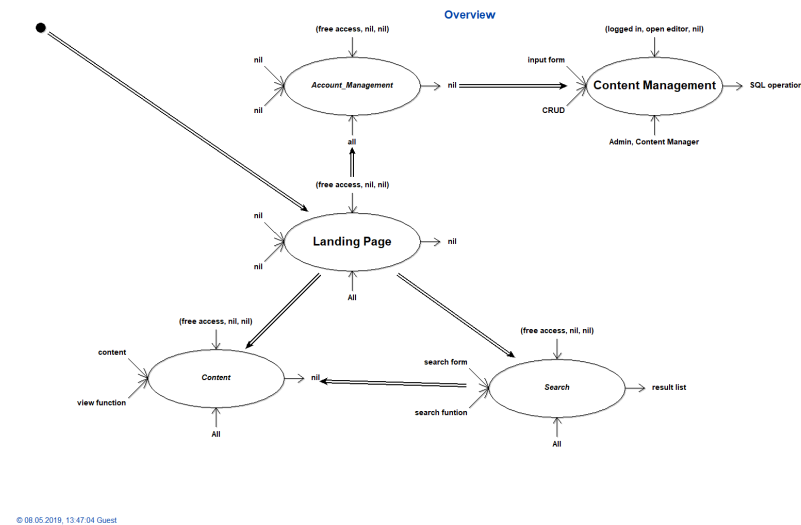


Abbildung 1: Overview of KAFFEESATT

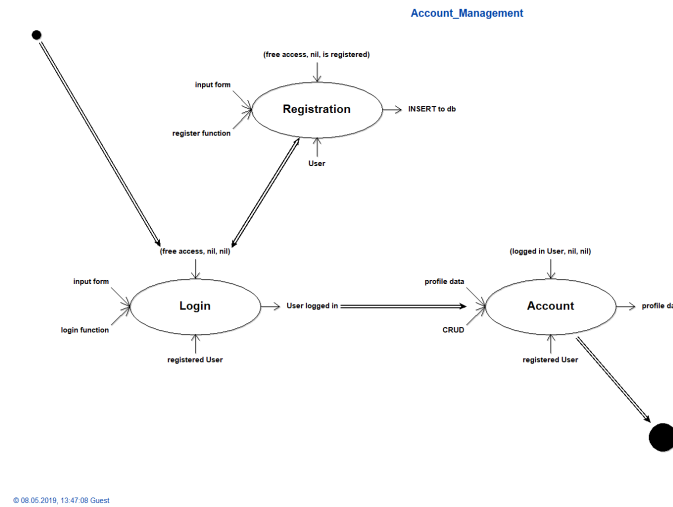


Abbildung 2: Account Management of KAFFEESATT

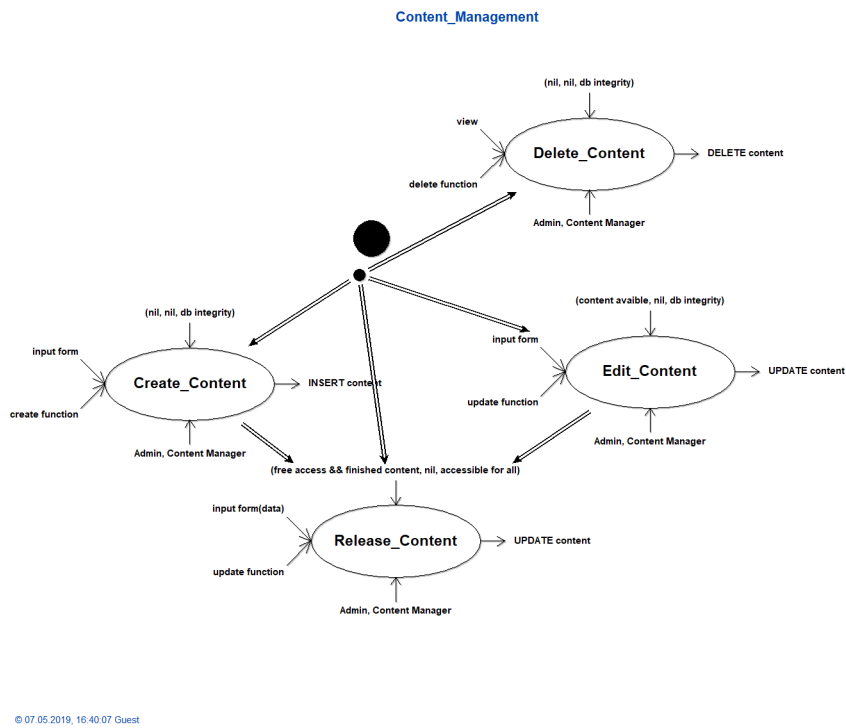
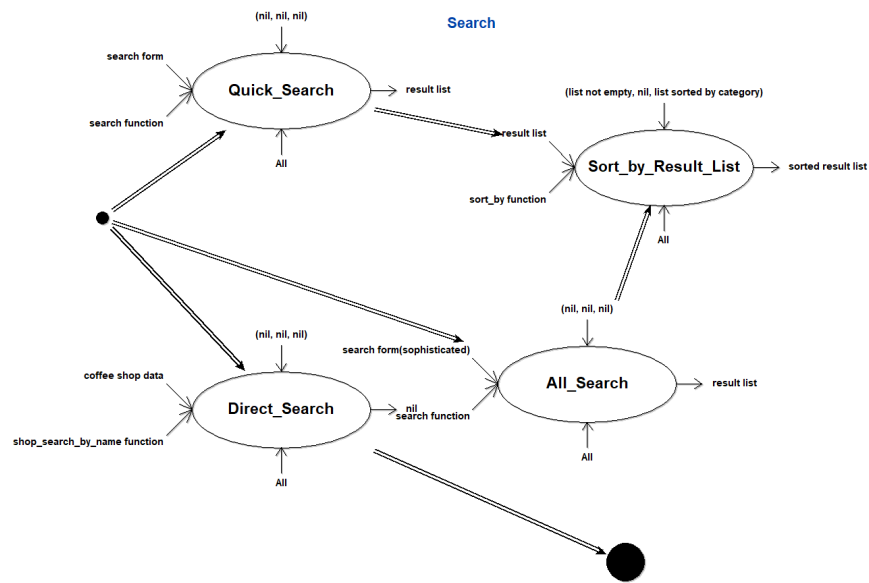
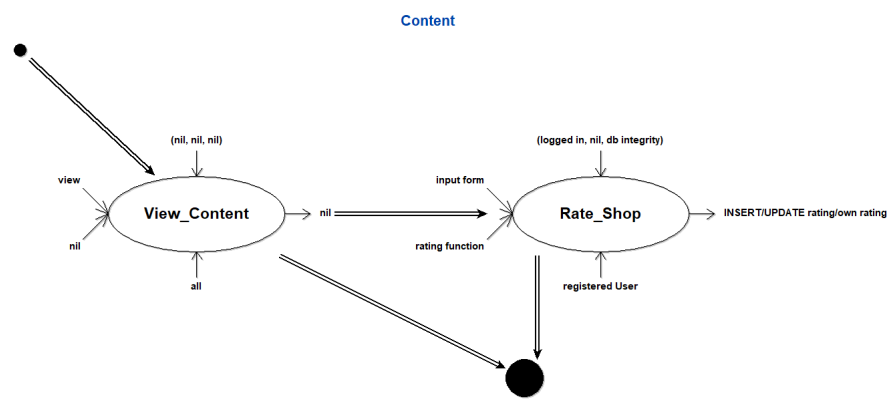


Abbildung 3: Content Management of KAFFEESATT



© 07.05.2019, 16:42:14 Guest

Abbildung 4: Search of KAFFEESATT



© 07.05.2019, 16:35:00 Guest

Abbildung 5: Content KAFFEESATT

5 HERM-SCHEMAS

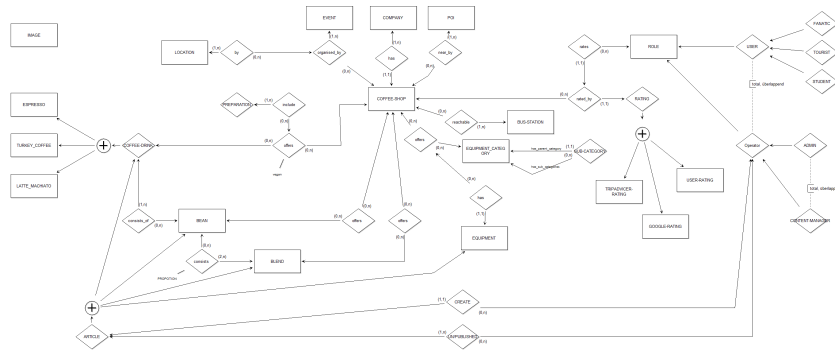


Abbildung 6: Simplify domain model

COFFEE_SHOP - <Name, ADDRESS>
rating(google, own(total, coffee_selection, facilities, feelgood_factor, service),
tripsadviser)
wlan
name
address
opening_time
vegan
disabled-friendly
fair_trade
price_range
accessory
eco_sustainability(seal)
website
event
seats
child_friendly
workstation
coffee_types
art
pets_friendly
food(warm, cold)
branch
blend
beans
equipment
founding_year
description
facility_category

franchise Onkel Tom Laden

EVENT -<eventID>
eventID
date
name
description
LOCATION
access_fee

COMPANY
company_name

POI -<Name, ADDRESS>
name
address
description

BUS_STATION -<NAME>
name
line

EQUIPMENT -<MANUFACTURER, NAME, YEAR>
name
category
price_range
manufacturer
description
year

LOCATION -<ADDRESS>
address
description

COFFEE_DRINK -<NAME>
name
warm/cold
description

PREPARATION -<schwacher Entity: COFFEE_DRINK + NAME>
type(press_style,roasting,filtering)
description

BEANS -<NAME, MANUFACTURER>
name
provenance

sort
fair_trade
manufacturer
description
price_range

 BLENDS <NAME, PROVIDER>
name
provider
description
provenance
price_range

 ROLE -<EMAIL>
email
password
name

 EQUIPMENT_CATEGORY -<NAME>
name

 ARTICLE -<ARTICLEID>
articleID

- 6 BPMN of Mini-Stories
- 7 Technology Stack
- 8 Framework
- 9 Obstacles
- 10 Outlook