Application Development for Mobile and Ubiquitous Computing

Seminar Task
First Presentation

GroupNo. 7
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"MobileChef"

- web application

- suitable for mobile browsers

- customizable interface to search and view recipes

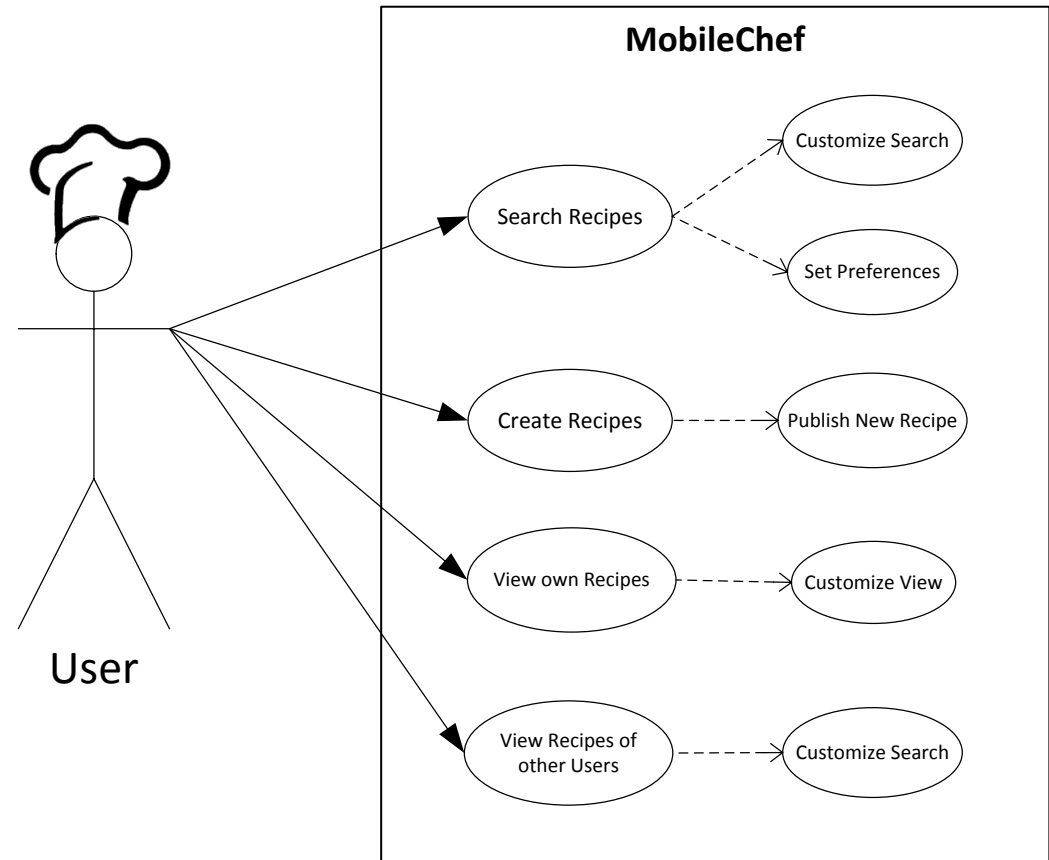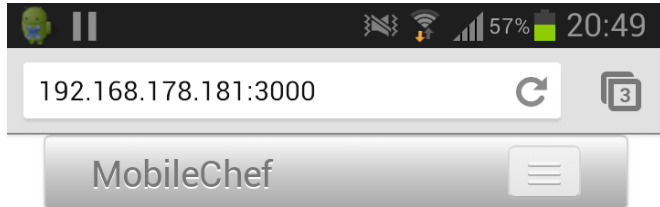- create and upload your own recipes

"MobileChef"

main feature :

- ° search for recipes
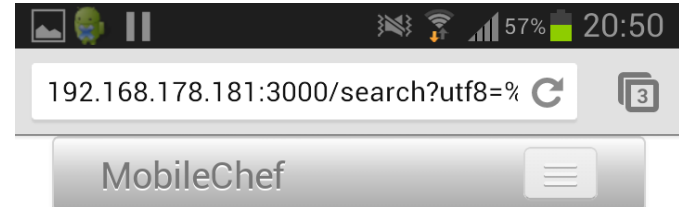- ° find suitable dishes for ingredients you already have

additional features:

- ° customize search
- ° customize views
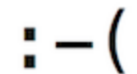- ° create recipes
- ° upload own recipes

MobileChef

User

Search Recipes — Customize Search

Search Recipes — Set Preferences

Create Recipes — — Publish New Recipe

View own Recipes — — Customize View

View Recipes of other Users — — Customize Search

TECHNISCHE UNIVERSITÄT DRESDEN

Homescreen

Search View

Desktop - Homescreeen

Desktop – Search View

Ruby on Rails

- web application framework for Ruby language

- fast web development

- easy to maintain and extend

Twitter Bootstrap

- framework for front-end development

web services as a recipe database

- using popular websites for sharing recipes

using the web service of ***chefkoch.de*** (main goal)

- HTTP-GET Interface
- JSON data as response

creating our own web service to share recipes (optional)

- REST-service for uploading and retrieving recipes

using location to view shopping possibilities

- Google Maps API

support device and connection
- scale images to a proper size
- image filesize should be small
- cache recent queries to reduce response time
- support commonly used web browsers

usability features
- search preferences
- view customization

- context awareness
  - get matching recipes depending on existing ingredients
  - find shopping possibilites based on your location

iterative development method

- cycles of two weeks
- test driven development
- defining tasks which suit one cycle
- working software at the end of each cycle

testing on several mobile devices

using git for version control

Questions