



Application Development for Ubiquitous Computing

SocialCourses

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First Presentation, 08.11.2019

Agenda

- General Idea
- Application Scenario
- Mockups
- Challenges
- Technologies
- Work plan





General Idea

- Students usually have a lack of information regarding who their course mates are.
 - Communication and interaction between them is beneficial and desired by all parties.

- Approach:
 - Develop an app to give such a service that easily provides information sharing between students of the same course.





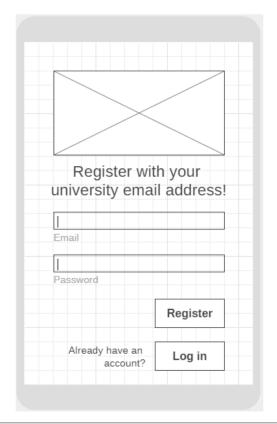
Application Scenario

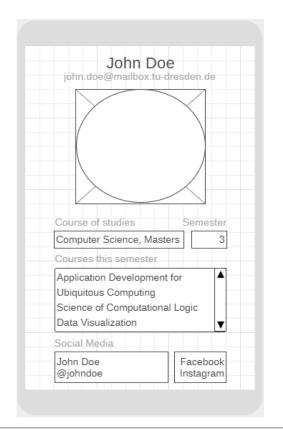
- 1. Register with TU mail address
- 2. Login with TU mail address
- 3. Create Profile / Decide on information you want to publish
 - a. Optional:
 - i. exclude certain courses (or people) from seeing certain parts of your information
- 4. Enter course groups
 - a. Enroll for course in ¡Exam
 - b. Receive Token
 - c. Search for Course in Search Bar in App / Find it in Overview Section
 - d. Enter Token to enroll for course group in App
- 5. Course group Overview
 - a. Students enrolled in this course have access to their course mates profile
 - b. Optional:
 - i. Private Chat function for each student
 - ii. Public Chatroom for the course





Mockups

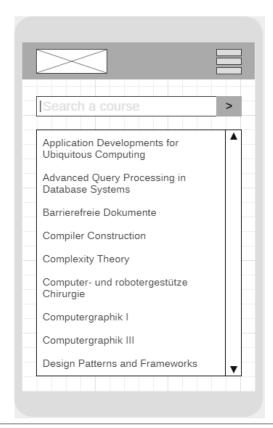


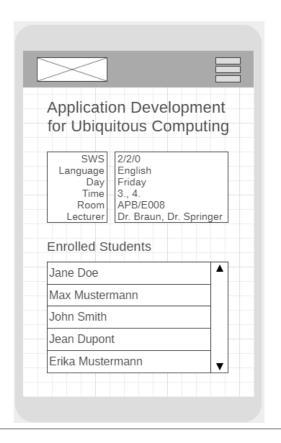






Mockups









Challenges

- Offline Challenges
 - Make the app functional in offline mode.
 - Fetch data locally when offline and update when connection available
- Energy Challenge
 - Tackle the problem to design the app in such a way that uses minimalist energy consumption
- Connectivity Challenge
 - Local caching for important and small amount of data
- Usability Challenge
 - User profile personalization

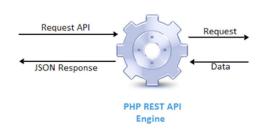




Technologies

Client-Side Technologies & Tools Technologies & Tools Server-Side















Work Plan

November

- Presenting different app ideas
- Deciding on the final app idea
- Discussing the technologies to be used
- Defining the scenarios and the mockups
- o **08.11.2019 -** First Presentation
- Getting familiar with the new technologies
- Component and architecture discussion
- Starting implementation

December

- Working on implementation
- Tackling the defined challenges
- 13.12.2019 Second Presentation
- Finished first prototype

January

- Testing first prototype
- Minor enhancement and optional features
- o **31.01.2020 -** Final Presentation





Thank you for your attention!



