Application Development for Mobile and Ubiquitous Computing

CampusSurfing

Group 12

Antonio Pietzsch, Maximilian Vollstädt

Application Scenario / Idea

Where to go when you need a free seat to **study**
relax   **?**
discuss

Application Scenario / Idea

Where to go when you need a free seat to **study**
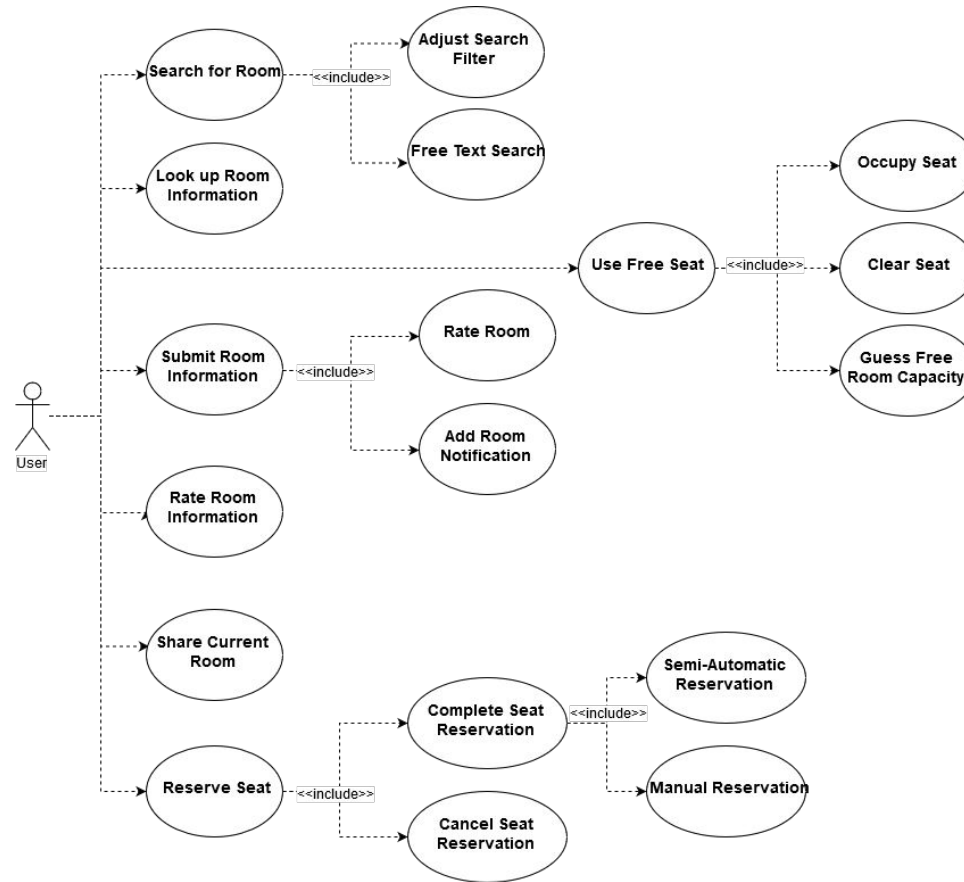   **relax**   **?**
                                         discuss

→ Use CampusSurfing to find available rooms on campus based on:

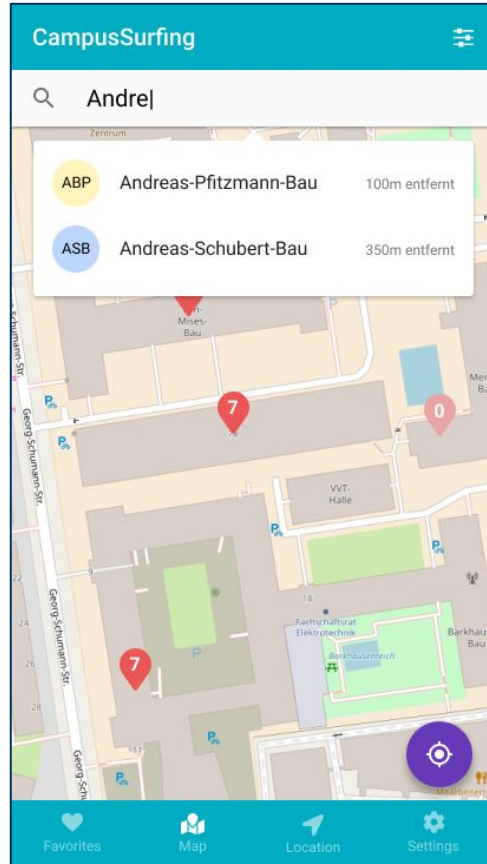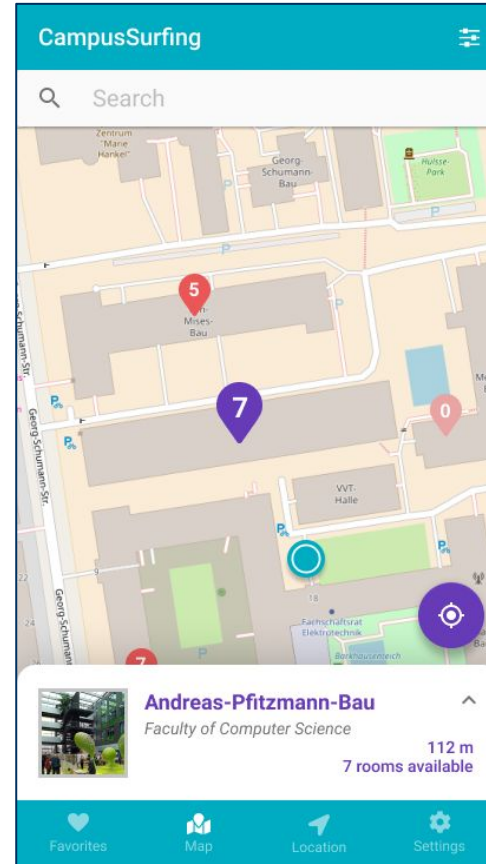- current location
- desired time
- individual preferences

TECHNISCHE
UNIVERSITÄT
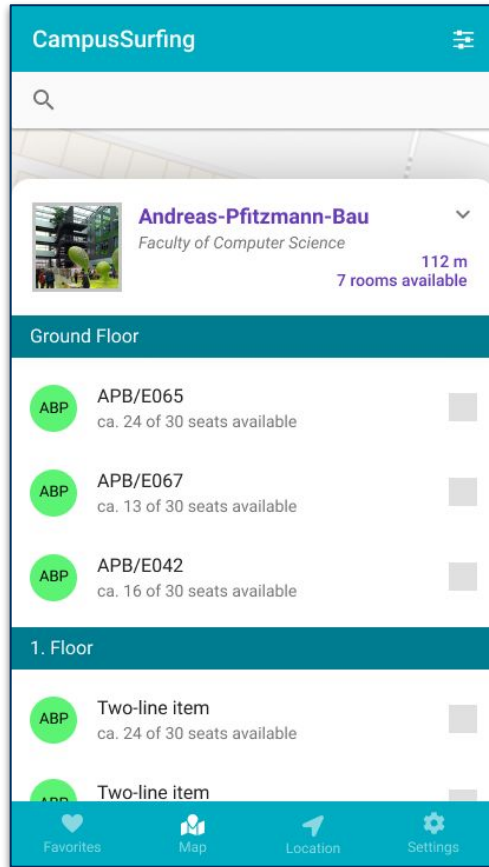DRESDEN

DRESDEN
concept

Use Cases

TECHNISCHE UNIVERSITÄT DRESDEN

DRESDEN concept

Mockups

Search for a *Location*

Select the *Desired Location*

CampusSurfing
Application Development for Mobile and Ubiquitous Computing / Group 12
First Presentation // 02.11.2018

TECHNISCHE UNIVERSITÄT DRESDEN
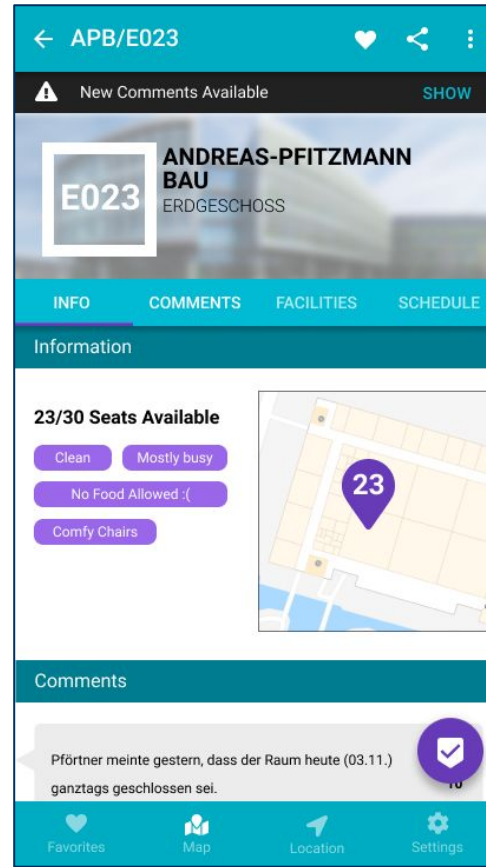
Slide 5

DRESDEN concept

Look up *Building Details*

Look up *Room Details*

Challenges I

ENERGY CHALLENGE

- Toggling GPS location dependent

OFFLINE CHALLENGE

- Downloading (indoor) maps
- Local caching/prefetching of room schedules and allocation plans

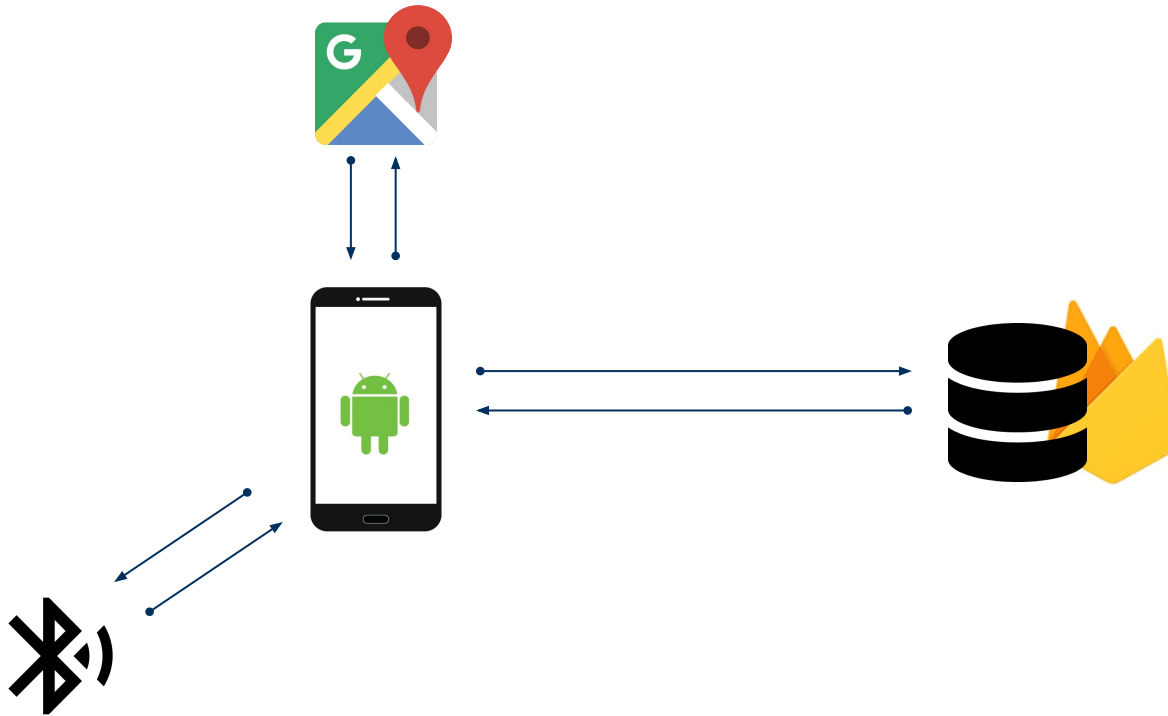# Challenges II

USABILITY CHALLENGE

- Personalisation according to user preferences
- Familiarity with Google Maps and Material Design Guidelines
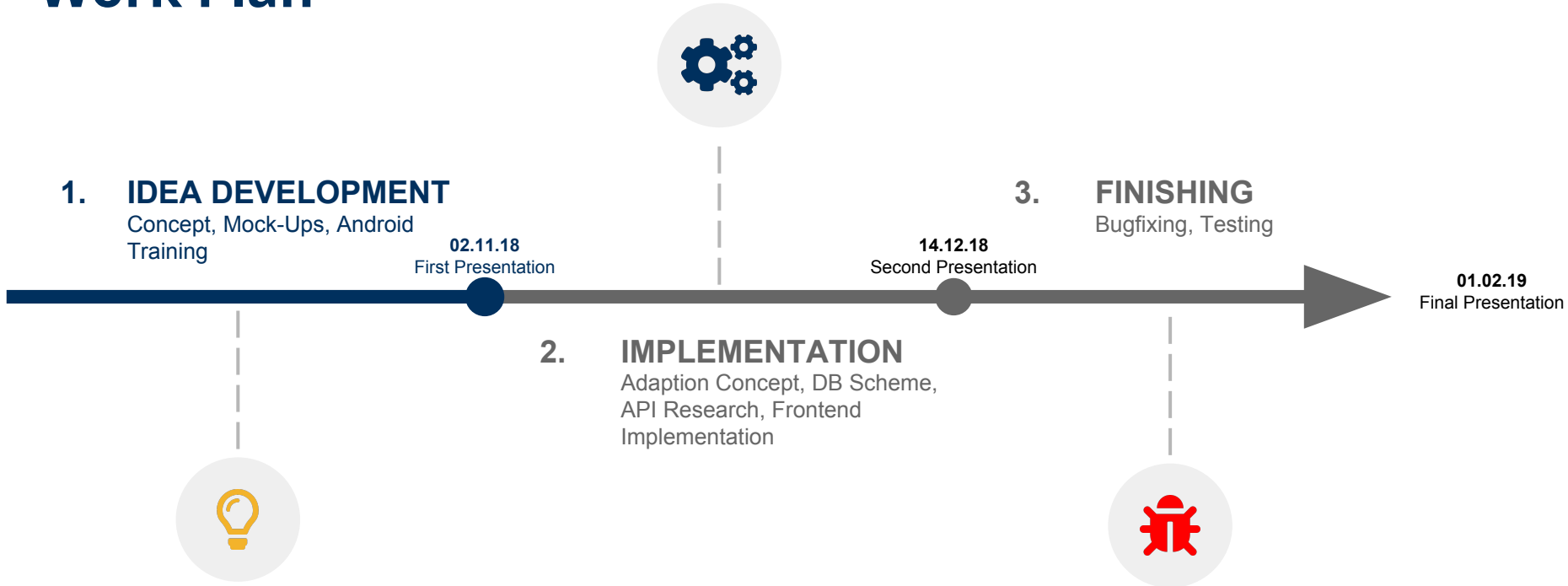
CONNECTIVITY CHALLENGE

- Network dependent information download

Technologies and Architecture

Work Plan

1. **IDEA DEVELOPMENT**
    Concept, Mock-Ups, Android
    Training

02.11.18
First Presentation

2. **IMPLEMENTATION**
    Adaption Concept, DB Scheme,
    API Research, Frontend
    Implementation

14.12.18
Second Presentation

3. **FINISHING**
    Bugfixing, Testing

01.02.19
Final Presentation

TECHNISCHE
UNIVERSITÄT
DRESDEN

CampusSurfing
Application Development for Mobile and Ubiquitous Computing / Group 12
First Presentation // 02.11.2018

Slide 10

DRESDEN
concept

Any Questions?