TECHNISCHE UNIVERSITÄT DRESDEN

Mensa Buddy

Application Developement for Mobile and Ubiquitous Computing

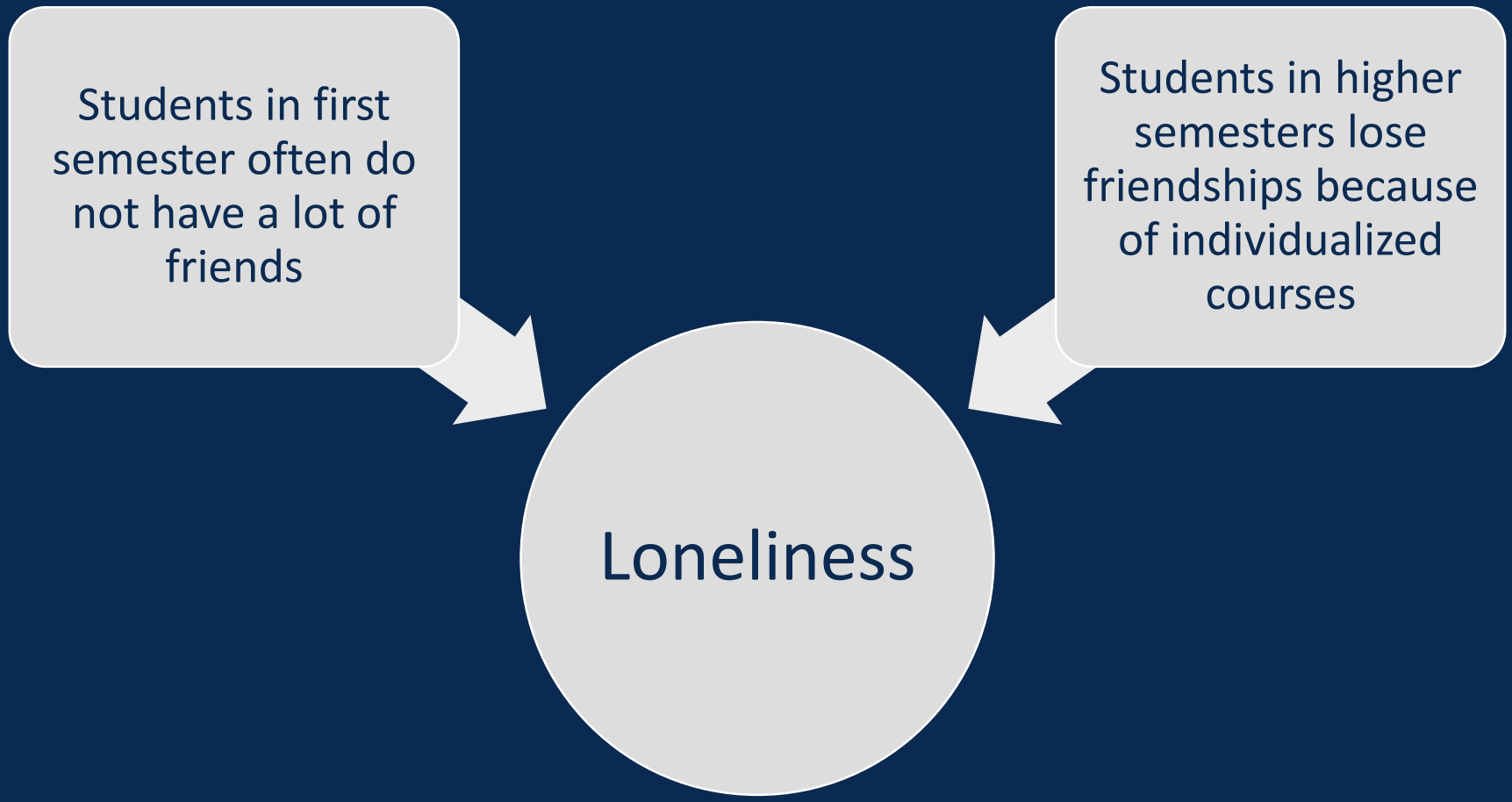
Group 7 - Max Vorhauer and Christopher Utsch

TECHNISCHE UNIVERSITÄT DRESDEN

Outline

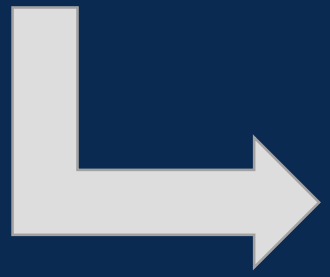
1. Scenario
2. Concept
3. Use Cases
4. Context
5. Technologies
6. Architecture
7. Challenges
8. Work Plan

Scenario


Students in first semester often do not have a lot of friends
Students in higher semesters lose friendships because of individualized courses
Loneliness

Result

→ People eating lunch alone



Not anymore: Mensa Buddy

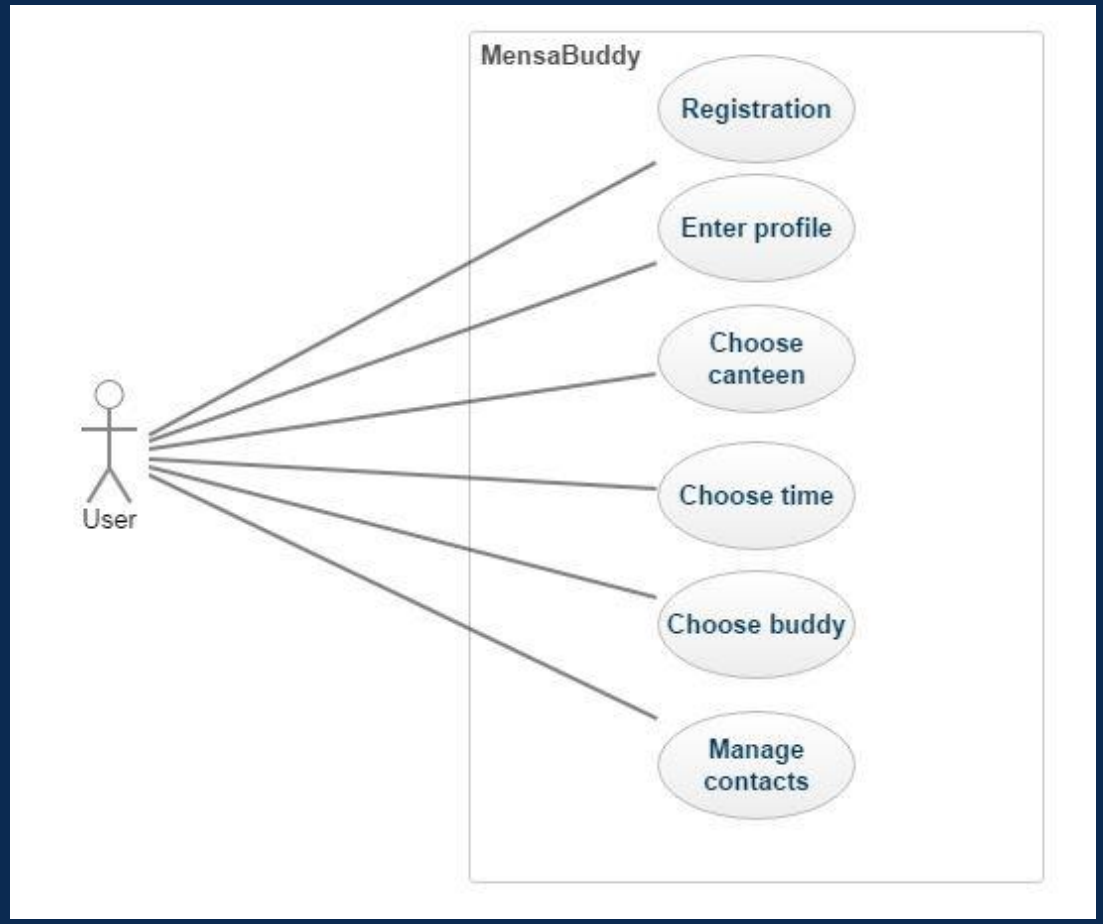
Mensa Buddy helps to match with other lonely-lunchers → Nobody has to eat alone anymore

TECHNISCHE UNIVERSITÄT DRESDEN

Concept

1. User creates a profile
2. User starts matching process
3. User gets a match/list and can contact his buddy
4. User can manage his matches

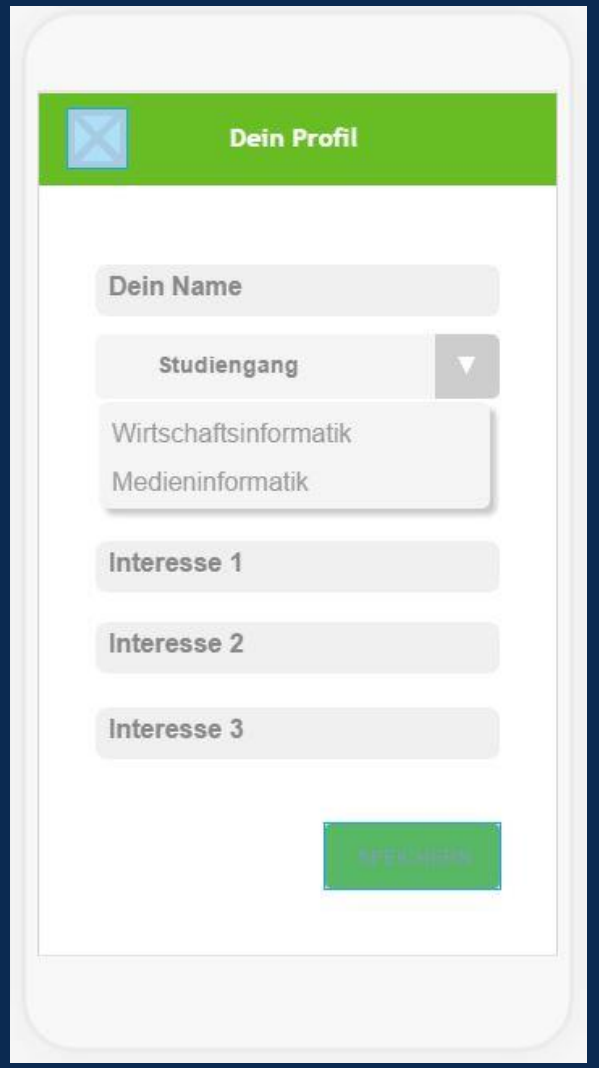
Use Cases


MensaBuddy
Registration
Enter profile
Choose canteen
Choose time
Choose buddy
Manage contacts
User

Mock Up


MensaBuddy
Alte Mensa
•Gericht 1
•Gericht 2
•Gericht 3
Mensa wählen
Zeltmensa
Siedepunkt
U-Boot Mensa


Deine Treffer
Max
... studiert Wirtschaftsinformatik
... mag Fußball
... mag klassische Musik
PASST!


Dein Profil
Dein Name
Studiengang
Wirtschaftsinformatik
Medieninformatik
Interesse 1
Interesse 2
Interesse 3

TECHNISCHE UNIVERSITÄT DRESDEN

Context

- Physical context: Location
  - Show nearest Mensa
- Personal Context: personal data
  - Profile information to match potential candidates
- External data
  - Information about currently available lunches

TECHNISCHE UNIVERSITÄT DRESDEN

Technologies

- Android Application
- OpenMensaAPI
- GPS-Sensor
- MySQL-database

Architecture

Front End

Middleware
→ manages matching process
→provides data to front end

Back end
→ MySQL database

TECHNISCHE UNIVERSITÄT DRESDEN

Challenges

- Offline Challenge
  - Contact information of matches
  - Date and time
- Technological Challenge
  - Usability of application with/without functionality of GPS

Work Plan

- Setup team organization
- Research on Middleware technology
- Develop database concept (ERM)

→ 11.11.16

- Implementation of database
- Implementation of context
  - OpenMensaAPI
- Start Development of Front End prototype

→ 01.12.16

→ First prototype: 9.12.16