Presentation Group 12

App: Dresden Student Club Guide

Julian Striegl, Jasmin Delling
TU Dresden 04.11.2016

Table of contents
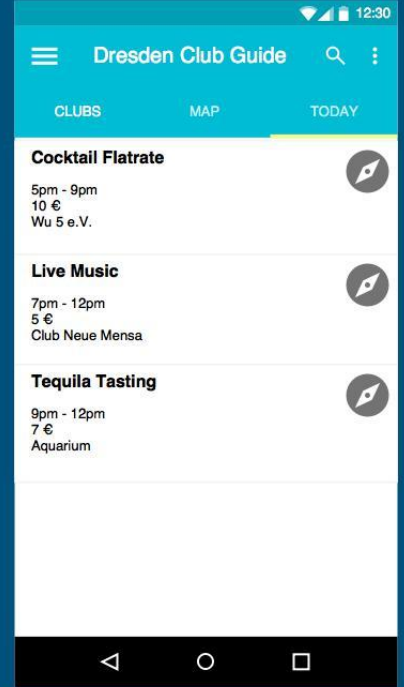
- App idea
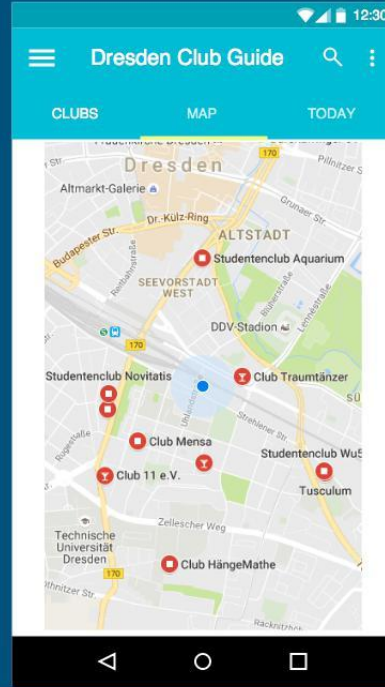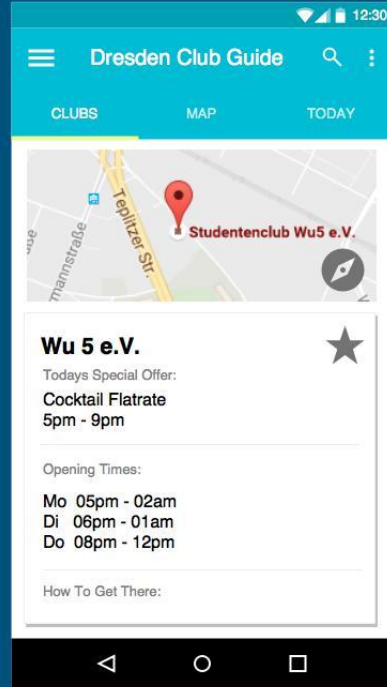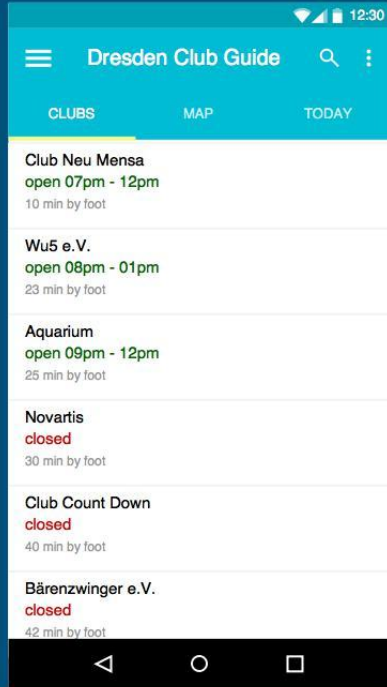- Mockups
- Challenges
- Technology
- Work plan

App idea

Dresden has a number of different student clubs.

The application makes it easier to decide which club to visit, by:

- Showing the user which clubs are currently open
- Letting the user know of any special offers
- Guiding the user to the next club

Mockups

Challenges

- Battery saving
  - The application should not use too much battery, if the battery state is low
- Context:
  - Detect battery state
- Adaptation:
  - Change used UI theme to black and white to minimize display battery consumption
  - Switch from GPS based position tracking to UMTS triangulation
  - Stop any app cron jobs (for example crawlers to retrieve data from student club websites)

Challenges

- Localisation based push notifications
  - The app should trigger a push notification, if the user is next to an open student club
- Context:
  - Track the smartphone position via GPS or UMTS triangulation
- Adaptation:
  - Check in database whether the club is open
  - Trigger a push notification

Technology

- Native Android application
- Android Studio 2 is used as integrated development environment
- Material Design
- GPS / UMTS for location tracking
- Jsoup to retrieve data from student club websites

Work plan

- 27.10.2016 - 04.11.2016 **Concept and mockups**
- 04.11.2016 **First presentation**
- 07.11.2016 - 21.11.2016 **First working prototype**
    - First basic design
    - Implementation
    - Testing on different smartphones
- 28.11.2016 - 05.12.2016 **Implementation of context adaptation**
- 16.12.2016 **Adaptation concept presentation**
- 19.12.2016 - 22.01.2017 **Final implementation and testing**
- 27.12.2016 **Final presentation**

The End