TECHNISCHE UNIVERSITÄT DRESDEN

Department of Computer Science Institute for System Architecture, Chair for Computer Networks

Application Development for Mobile and Ubiquitous Computing

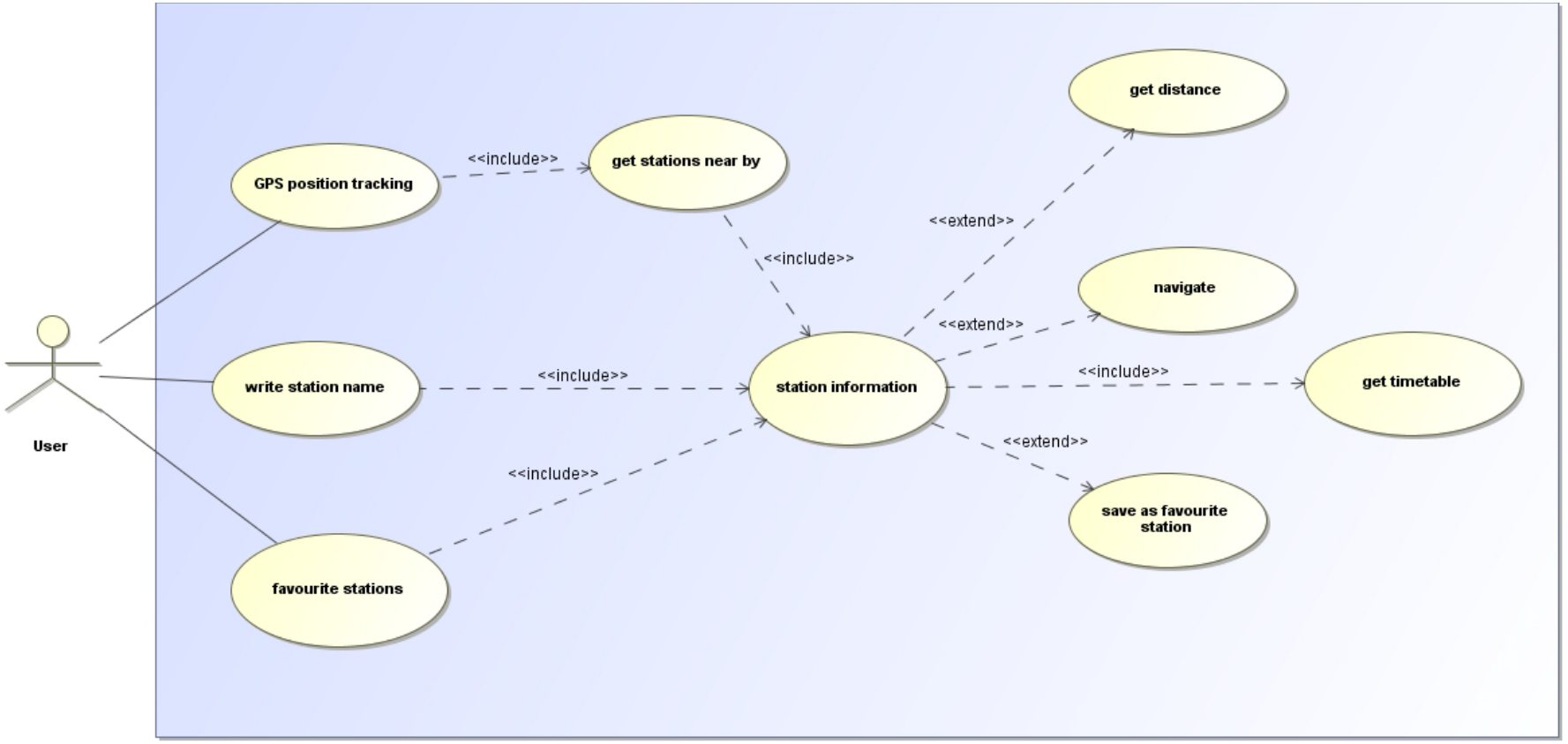
DVB Timetable Monitor
First Presentation

GroupNo. 8
Team: Marc Göbel, Thilo Gürtler

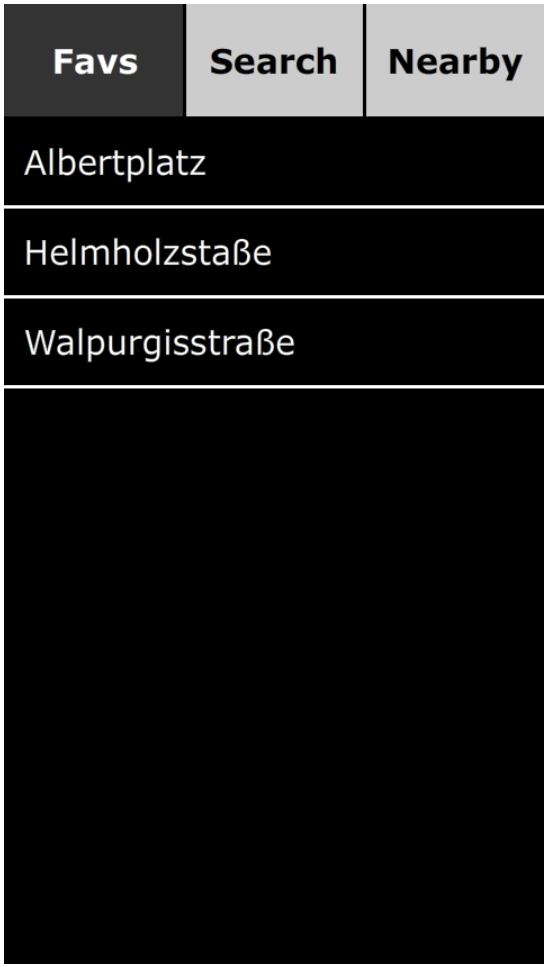
Application Scenario

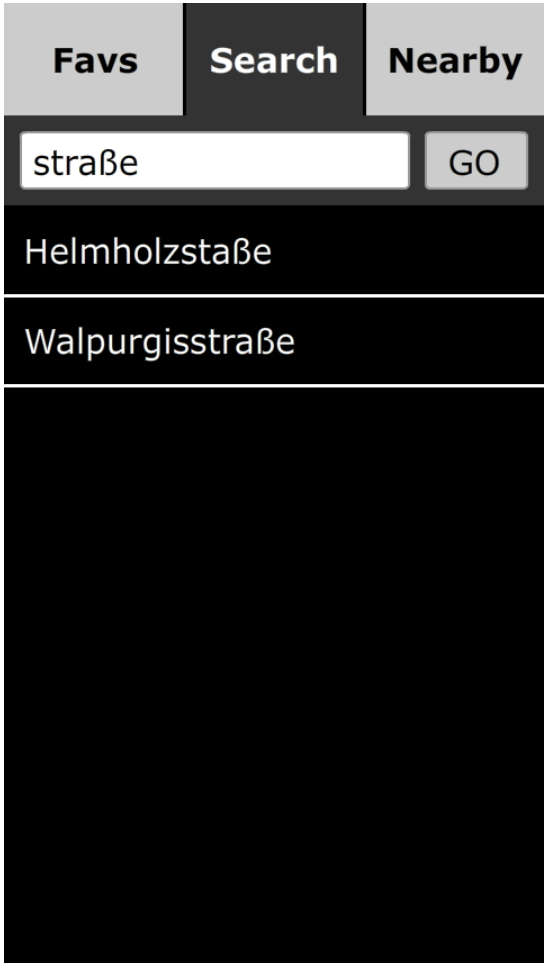
- Get information about next departures of transportation vehicles (busses, trams, trains) for any DVB station
  - Search for stations via text input
  - Get nearby stations for current position
  - Save favourite stations for quick select
- Get information about how much time a user need to get to the selected station
- Get information about how long the distance to the selected station is
- The user can navigate from his current position to the selected station with a navigation application (e.g. Google Maps)

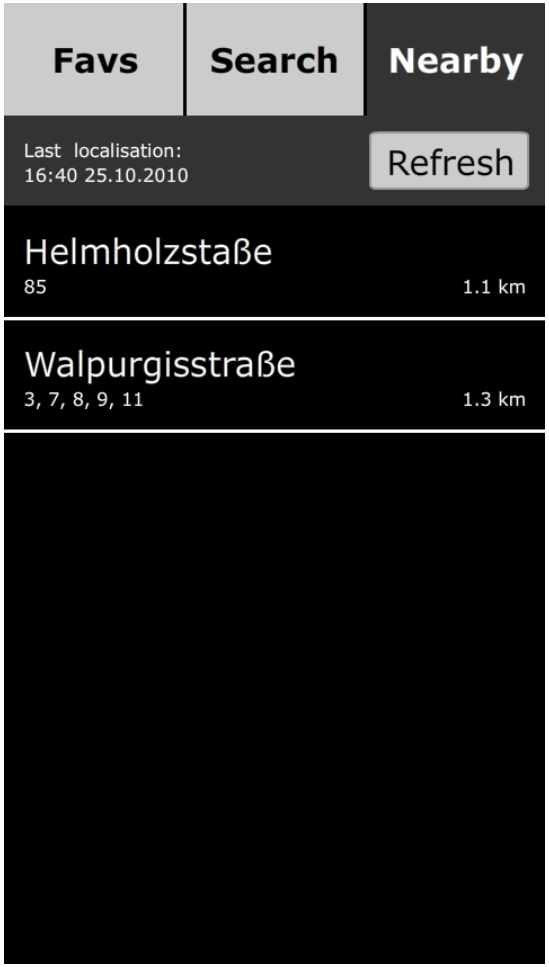
Application Scenario



Application Scenario - Mockups







Application Scenario - Mockups

OS: Android

Application Ports:

- Intern:
  - Get current location (GPS, Wireless Location)
- External:
  - DVB live data for departure times
  - DVB live data for all available station names
  - Location data for stations
  - Google Maps for navigation and distance calculation

Challenges

- Real time
  - Request/Response Delays
  - Network bandwidth
- Usability
  - Quick station selection
  - Easy to use
- OS compatibility
  - Android Version as low as possible

Work plan

13.12.2010	First prototype
17.12.2010	Second presentation
17.01.2011	Final version
26.01.2011	Bug fixing and improvements
28.01.2011	Final presentation