

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

Application Development for Mobile and Ubiquitous Computing

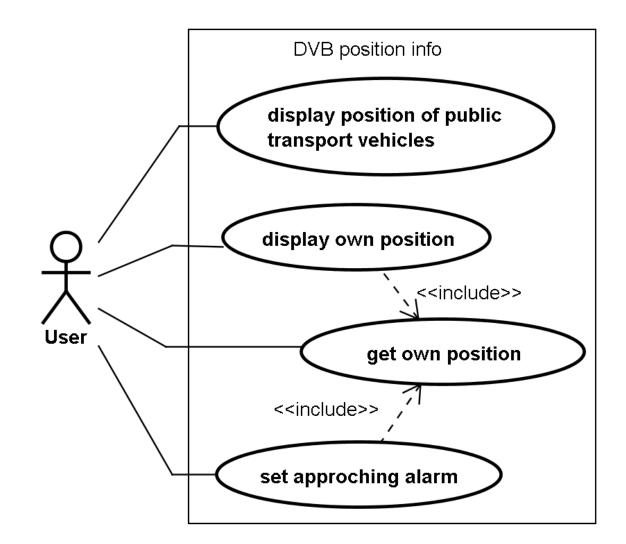
DVB position information First Presentation

Group #3 Team: Sven Fröhlich, Tobias Smolka



- User sees live map with public transportation vehicles (trams, busses)
- Map can be zoomed, scrolled, moved
- User can display his own position (from device's GPS or entered manually)
- User can see live distance between him and monitored vehicles
- User can set approaching alarm for radius and line number and be notified when the vehicle enters the radius









Map with moving signs for each bus/tram in monitored area





User's position and live distance between him and vehicles

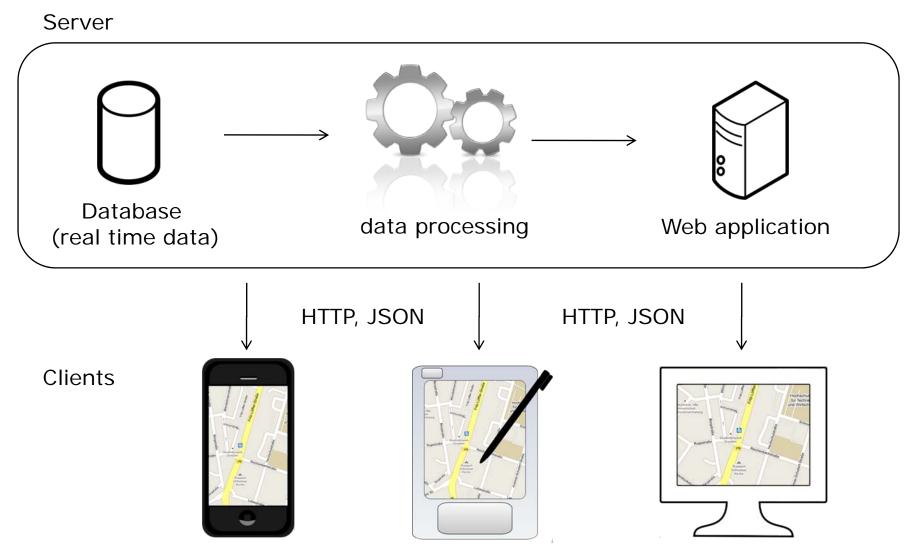


predictions

30.10.09 Design of communication protocol

- **13.11.09**Dummy prototype web
application with basic
web clientBasic data model:
put the real-time
data to objects
- **04.12.09**Features in user interfaceExtended data model:
computations and
- **18.12.09** Deployed on multiple platforms
- **21.01.10** Service and clients implemented, tested and optimized







Client

- XHTML, JavaScript, AJAX
- Google Maps API for rendering maps
- PhoneGap and Web Runtime (WRT)
 - Frameworks for integrating web applications with mobile devices (accessing GPS via JavaScript and more)

Server

- Java EE
- Application Server (JBoss)

Frontend

Java EE, JSP, XHTML



- Real-Time application
 - Request /Response Delays
 - network bandwidth
- Multiple clients
 - Different platforms, screen sizes, input interfaces
- Usability
 - Small screen size
 - User friendly interface