TECHNISCHE UNIVERSITÄT DRESDEN

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

Application Development for Mobile and Ubiquitous Computing

Bike riding guide
First Presentation

GroupNo. 17
Team:
Nong, Yu
Li, lili

Outline

- Application Scenario
- Technologies
- Challenges
- Workplan

Application Scenario

Problems:

Bikers who want to ride bike in a new area.

- They are not familiar with the topograpy of this area
- They do not know where they can find a bicycle stand
- Sometimes they may forget where they parked
- They may get lost
- ...

Application Scenario(contd)

- Aim of our application:

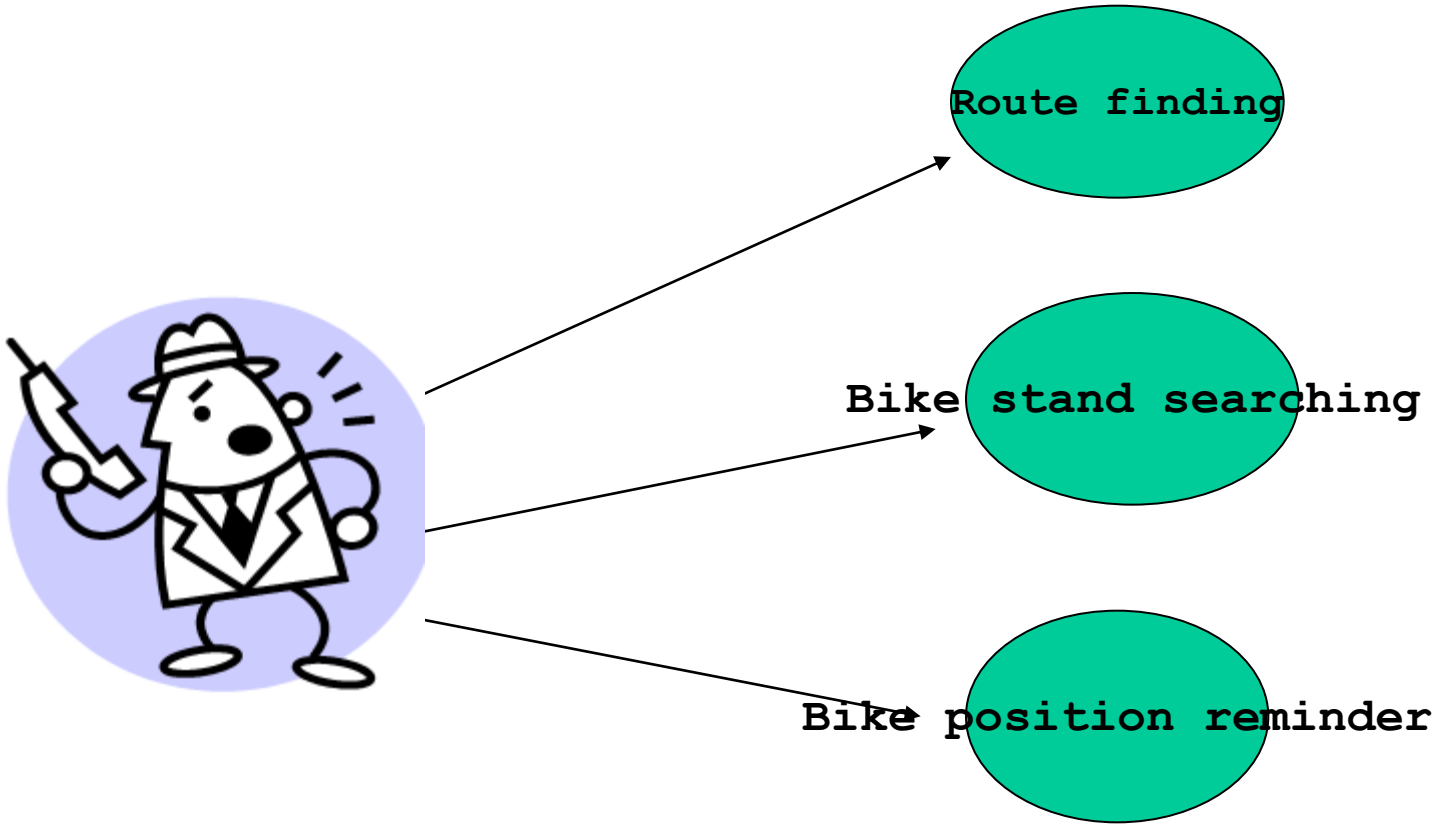
  Making a route from A to B, depending on the bikers' wishes.

  GPS location to prevent them from getting lost.

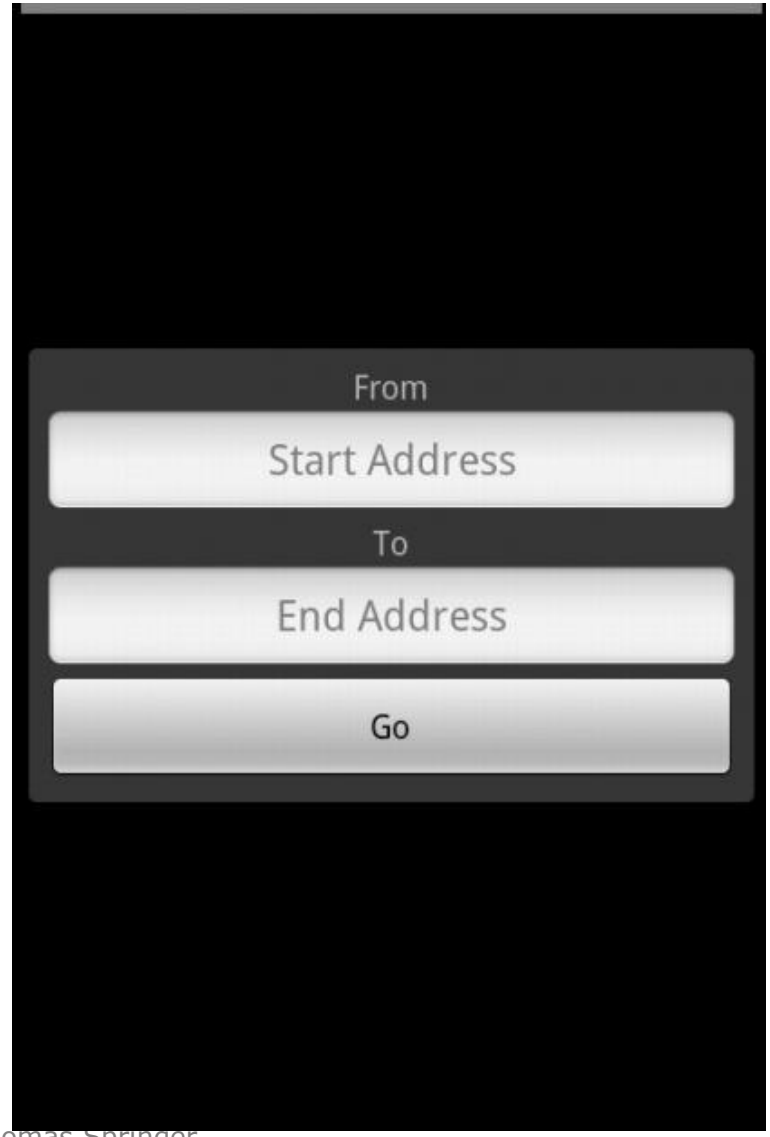
  Bicycle stand finder

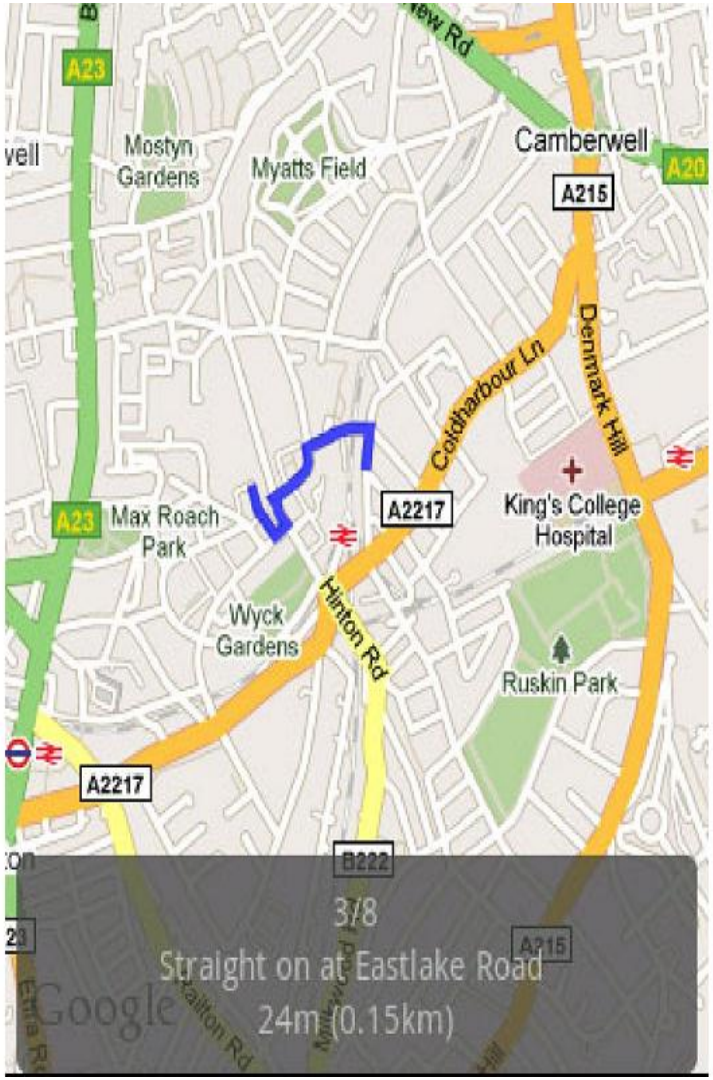
  Remind them where they parked

Use cases


Route finding
Bike stand searching
Bike position reminder

Mockups


From
Start Address
To
End Address
Go


A23
Mostyn Gardens
Myatts Field
Camberwell
A215
A20
Coldharbour Ln
Denmark Hill
A23
Max Roach Park
A2217
King's College Hospital
Wyck Gardens
Hinton Rd
Ruskin Park
A2217
B222
3/8
Straight on at Eastlake Road
24m (0.15km)
Google

Technologies

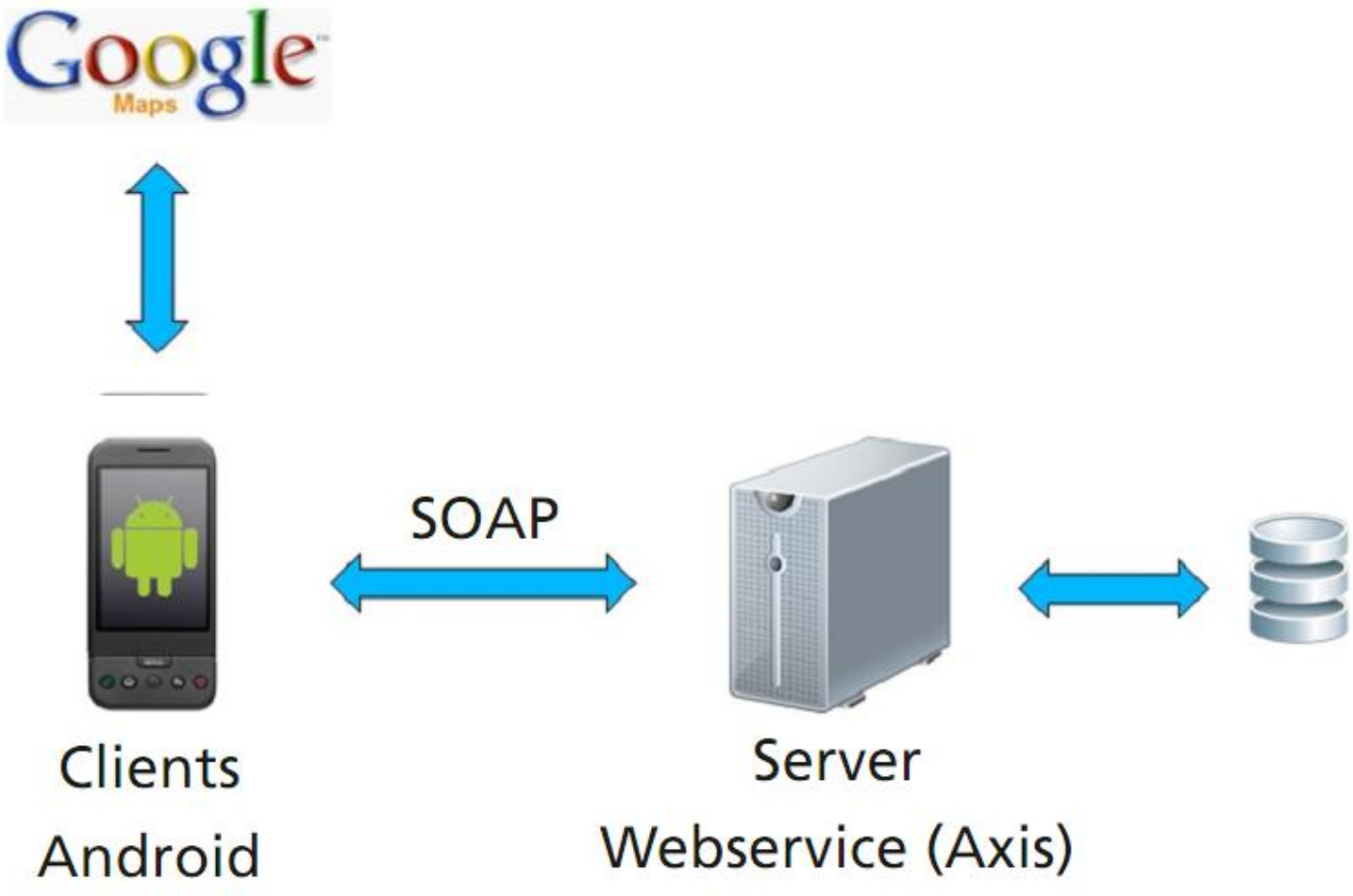
- Client

  Platform:
  Android

- Server:
  Application Server: Apache Tomcat
  Apache Axis
  Database: MySQL

  Google Maps API for rendering map data

Architecture



Challenges

- Conectivity between users and server
- Energy consumption
- GUI user friendly

Work plan

Today	First Pre.
2011.12.11	completion of first Prototype
2011.12.18	Sec. Pre.
2012.01.22	Debuging and testing
2012.01.29	Final. Pre.

The end!

Thank you for your attention~!