TECHNISCHE UNIVERSITÄT DRESDEN

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

Application Development for Mobile and Ubiquitous Computing

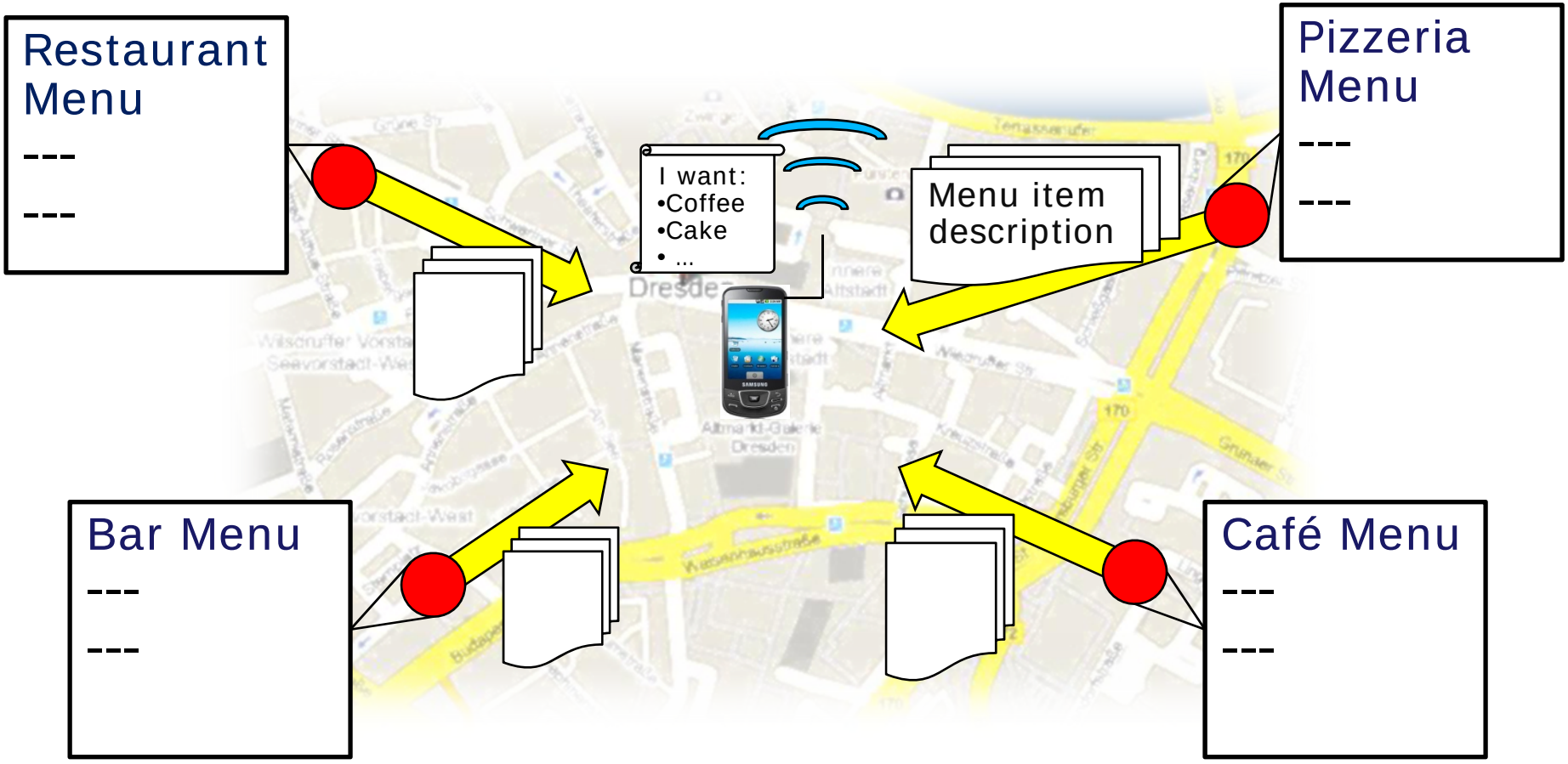
Seminar Task - MobileEatFind First Presentation

Group 10
Team:
Dang Khoa Tran, Denis Naletov

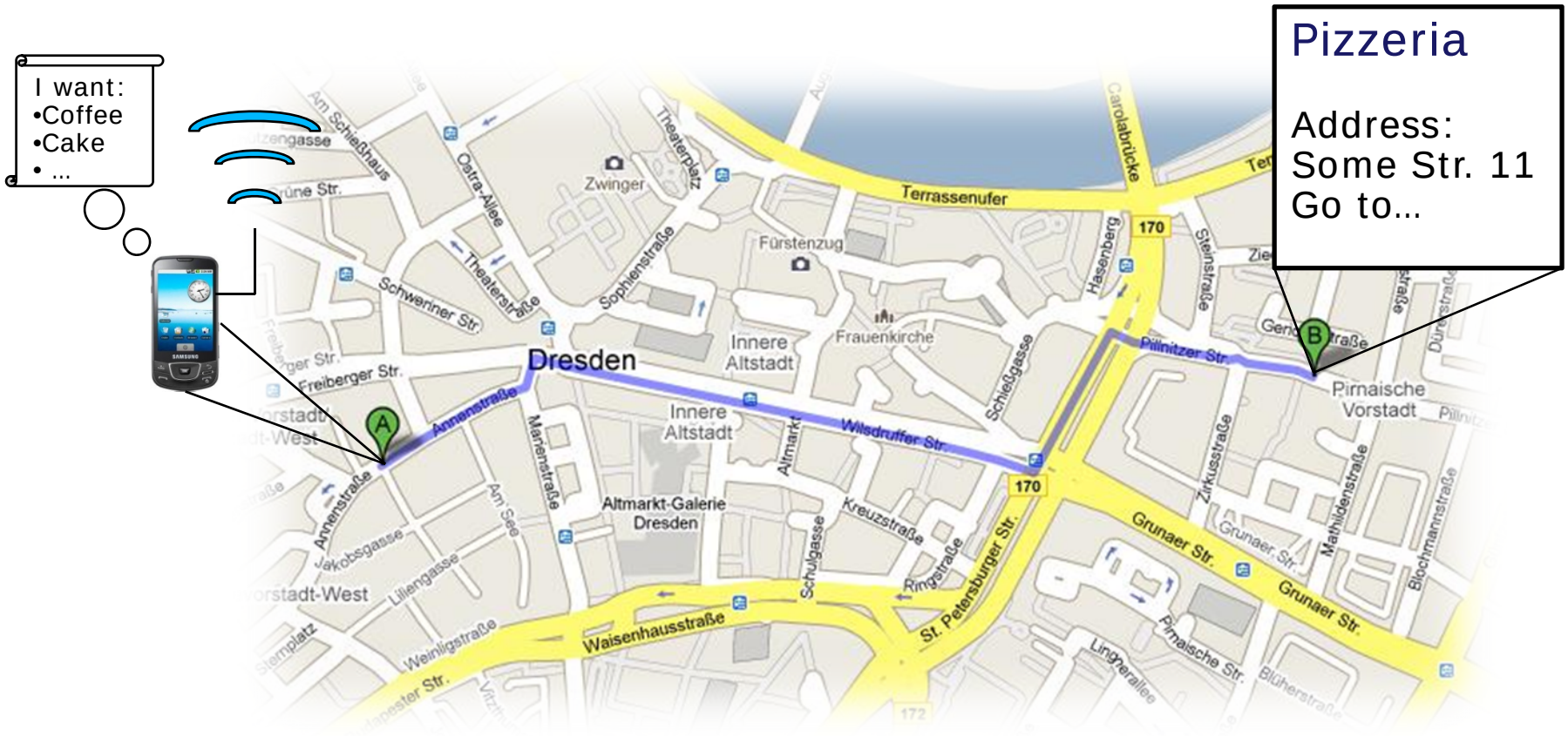
Application Scenario

- Historical city center with lots of cafes, restaurants, bars...
- Customer is thursty/hungry/tired/lasy and has no wish to enter any queues or check menus and prices „on-foot“
- Instead he has a mobile device with application capable to check menus, compare prices, check free tables amount...
- ... and when suitable offer has been found, there is a possibility to find the place via navigation

Application Scenario

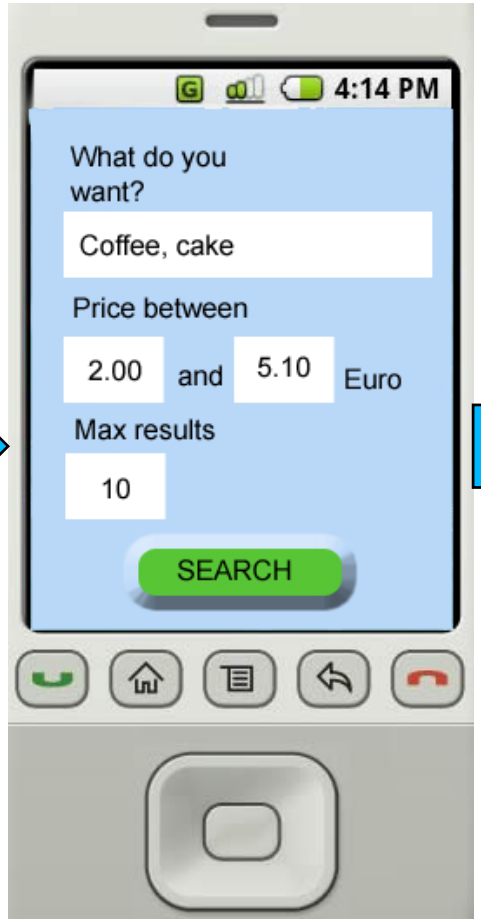


Application Scenario

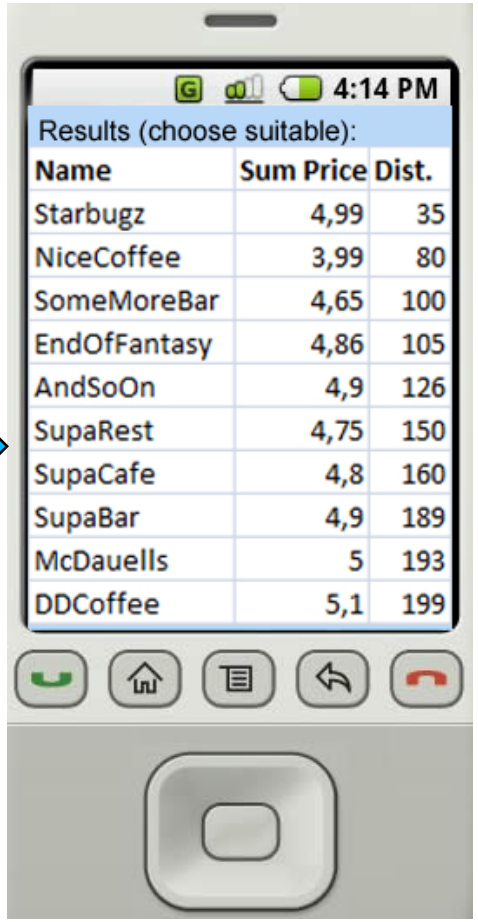


Application GUI Mockup

Activate program



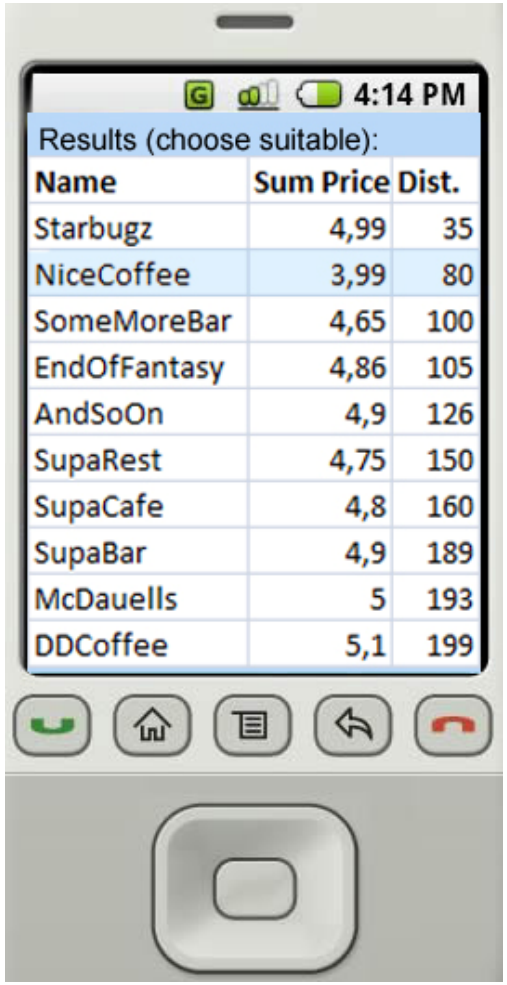
Choose, then press search

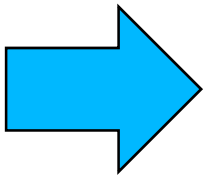


Enjoy results

Application GUI Mockup

Let's try NiceCoffee as cheapest:)

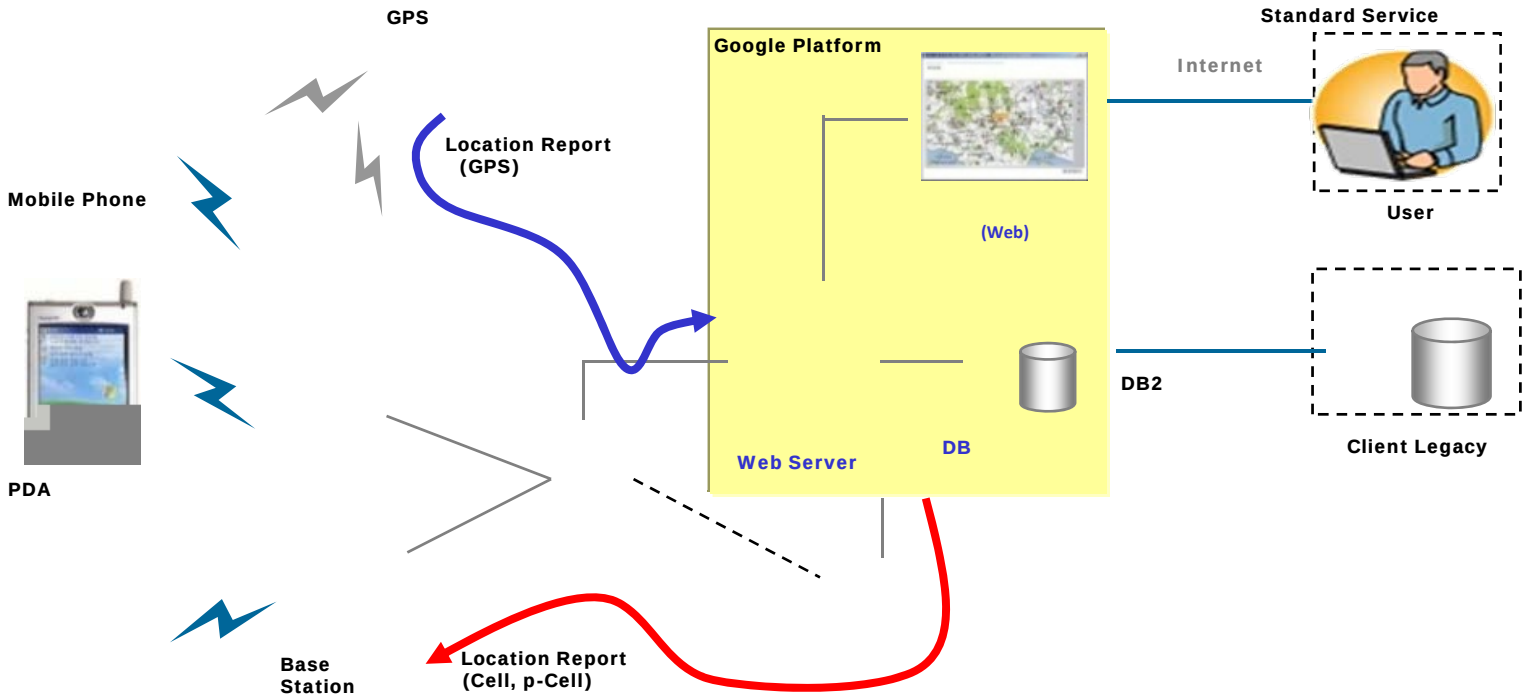




Technologies

- Eclipse Framework with Android Development Tools extension
- Google SDK
  - *The Google SDK provides the tools and APIs necessary to begin developing applications on the Android platform using the Java programming language.*
- IBM DB2 Everyplace
  - *a small-footprint relational database and high-performance data synchronization solution*
- WLAN Connection
- 3G Internet Connection

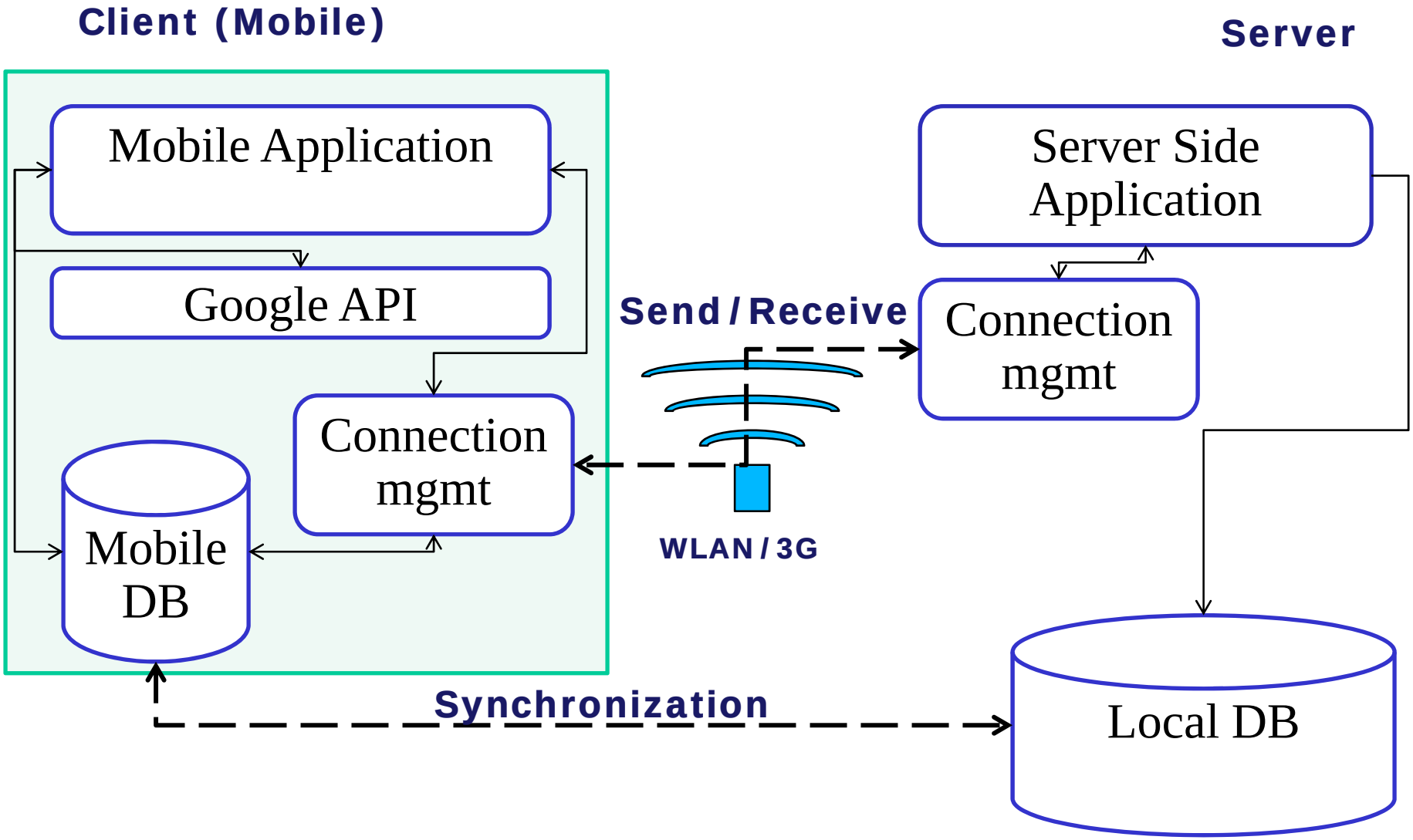
Architecture - basic



- **Features**

Terminal Location Reporting: The location data periodically sent to the central server from the terminal can be monitored by the administrator over the Web

Architecture - refined



Challenges

- Simple, but informative GUI
- (fast) Synchronization with (possibly) several DBs
- Google Maps
- Pre-ordering functionality (maybe…)
  - “please, begin making my coffee, while I’m walking…”

Work plan

- Refined task description on 30.10.2009
- Sprint meetings each week
  - Discussions, info and ideas exchange, programming prototype
- Ongoing development status presentation on 18.12.2009
  - Version 0.1, some screenshots
- Sprint continues
  - Optimizations, a bit testing
- Final presentation on 29.01.2010