

# Application Development for Mobile and Ubiquitous Computing

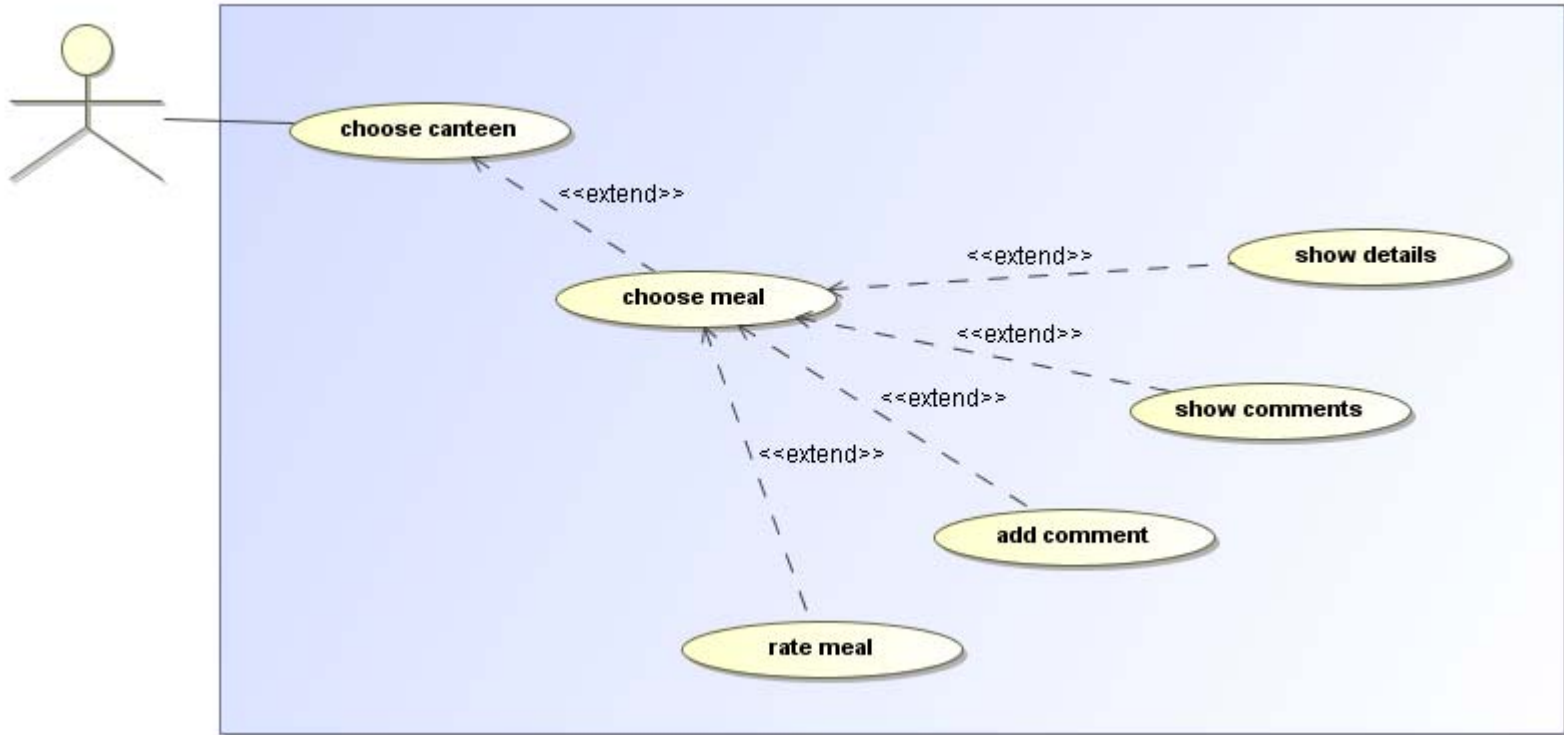
## Seminar Task

## Second Presentation

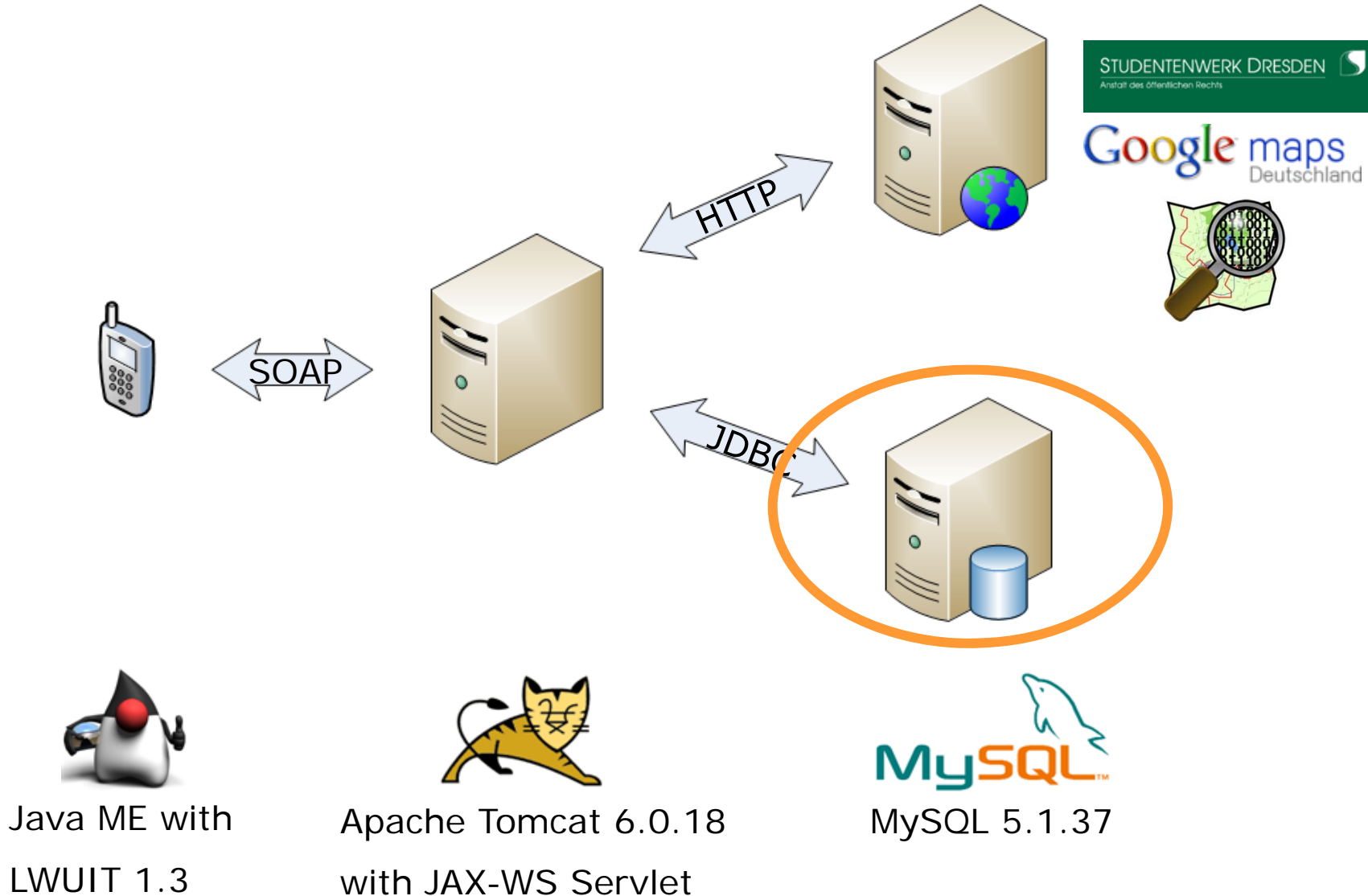
Group 12  
Dana Henkens  
Franz Josef Grüneberger

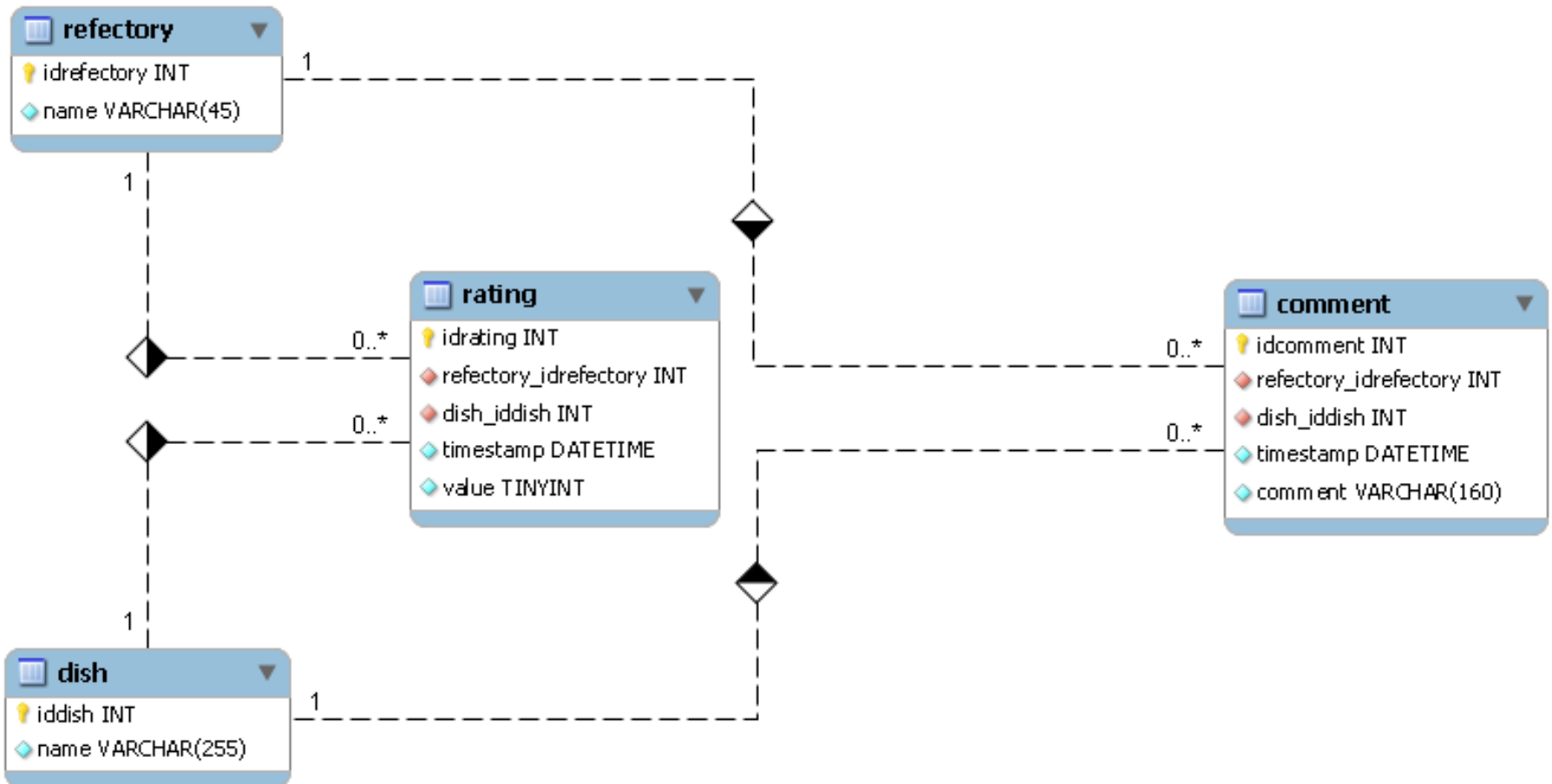
- Introduction / Application Scenario
- Use Case Diagram
- Mockups
- Technologies
- Challenges
- Work Plan

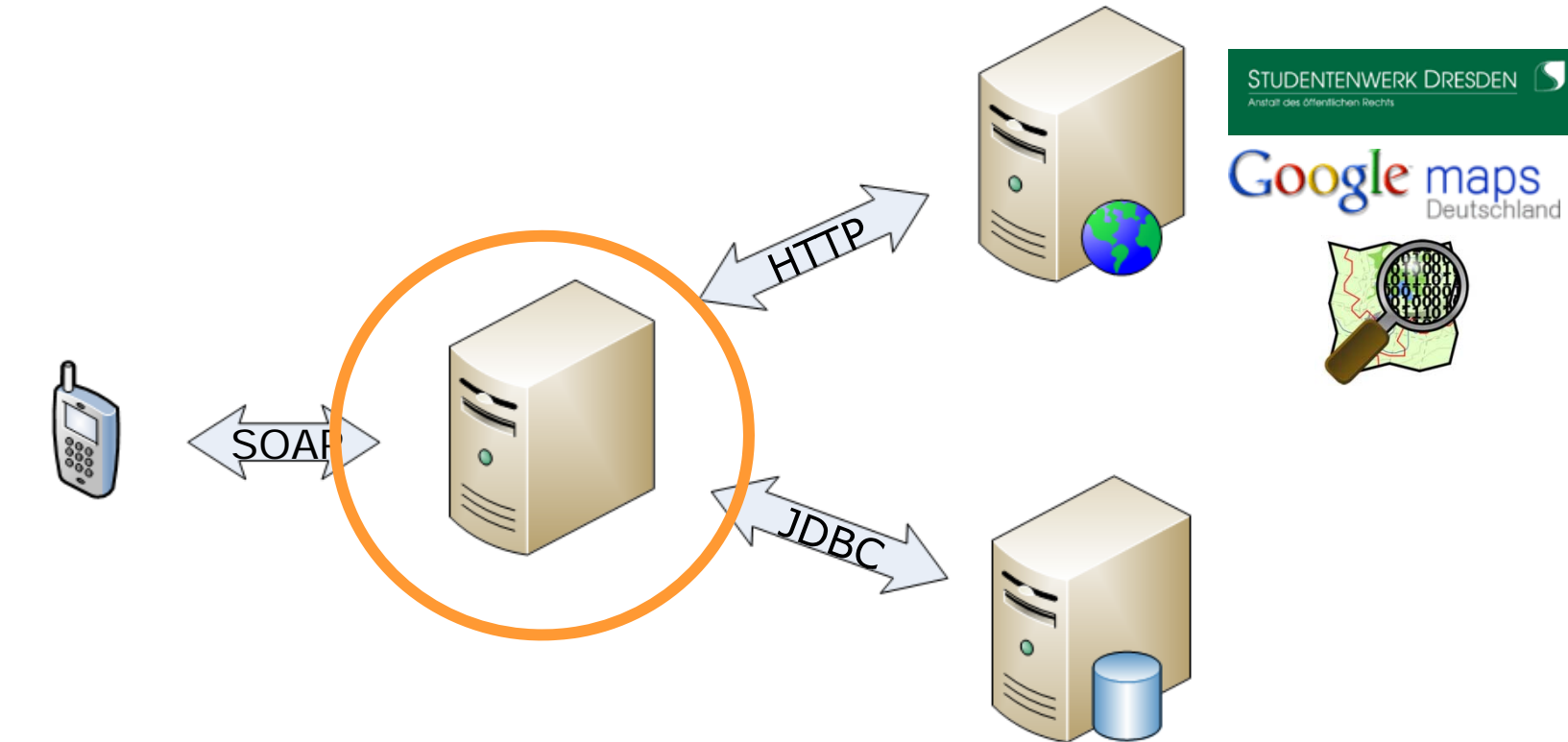
- target group:
  - students thinking about having lunch at the refectory
  - research assistants using the refectory of our university
  
- questions:
  - Where should I go to have lunch?
  - Which meals should I avoid? Which ones are recommendable?
  - Whats about the price?
  
- our solution:
  - mobile application providing information about the meals at the refectories including ratings











Java ME with  
LWUIT 1.2.1

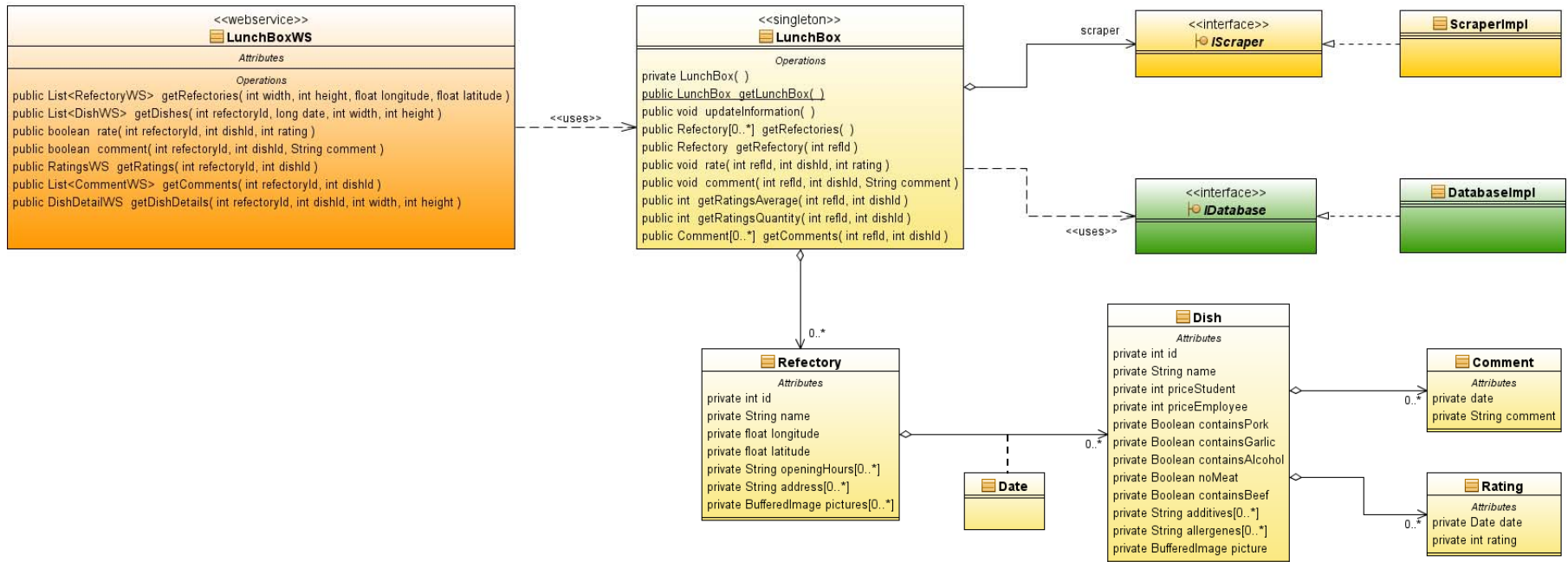


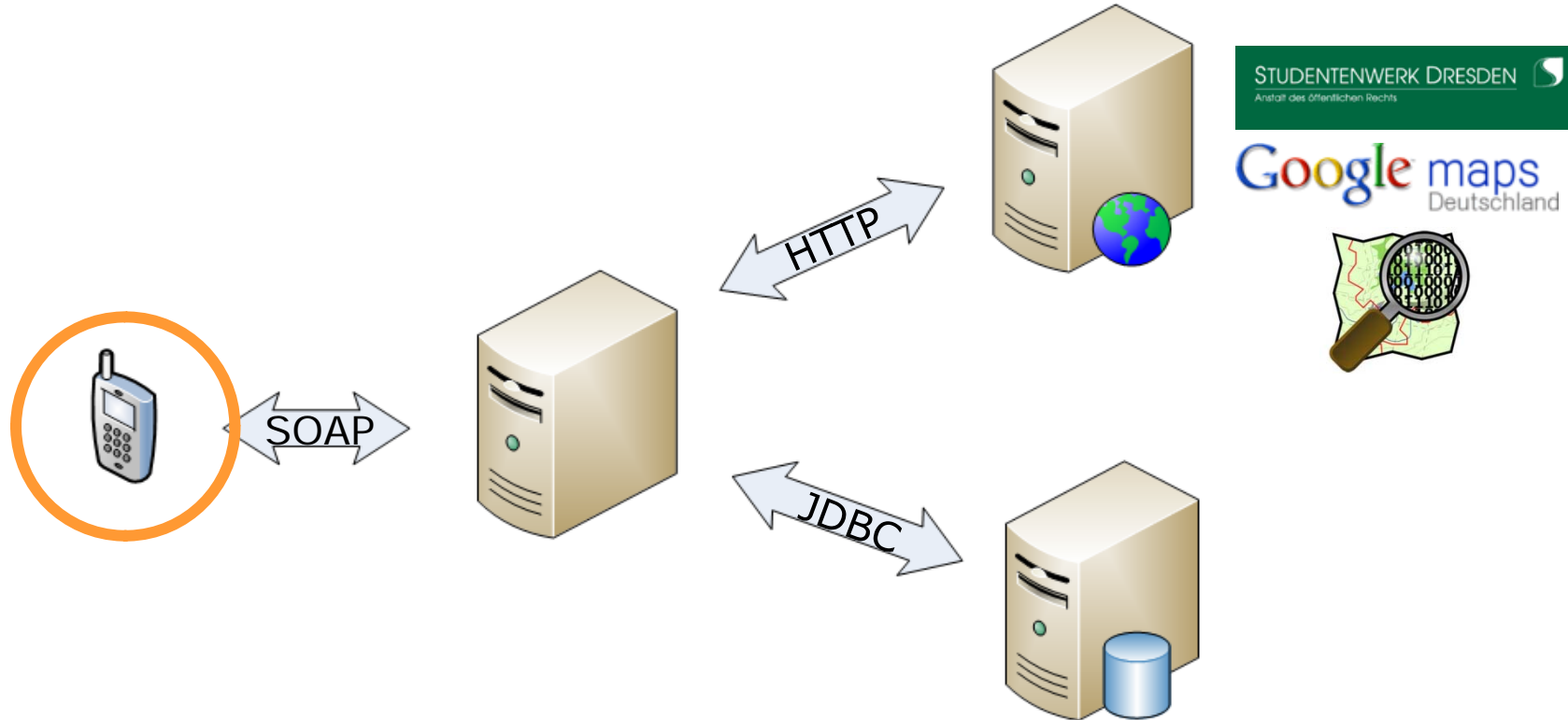
Apache Tomcat 6.0.18  
with JAX-WS Servlet



MySQL 5.1.37







Java ME with  
LWUIT 1.2.1



Apache Tomcat 6.0.18  
with JAX-WS Servlet



MySQL 5.1.37





## **data scraping**

- „Studentenwerk“ doesn't provide any API
- solved by means of *Cobra Java HTML Parser* and *HtmlCleaner*



## **usability and customer satisfaction**

- clear structured user interface e.g. filter for vegetarians
- use of LWUIT



## **restricted device capabilities**

- adaptation of images to the screen size (resolution)
- adaptation by means of functions provided by the JAVA API at the server



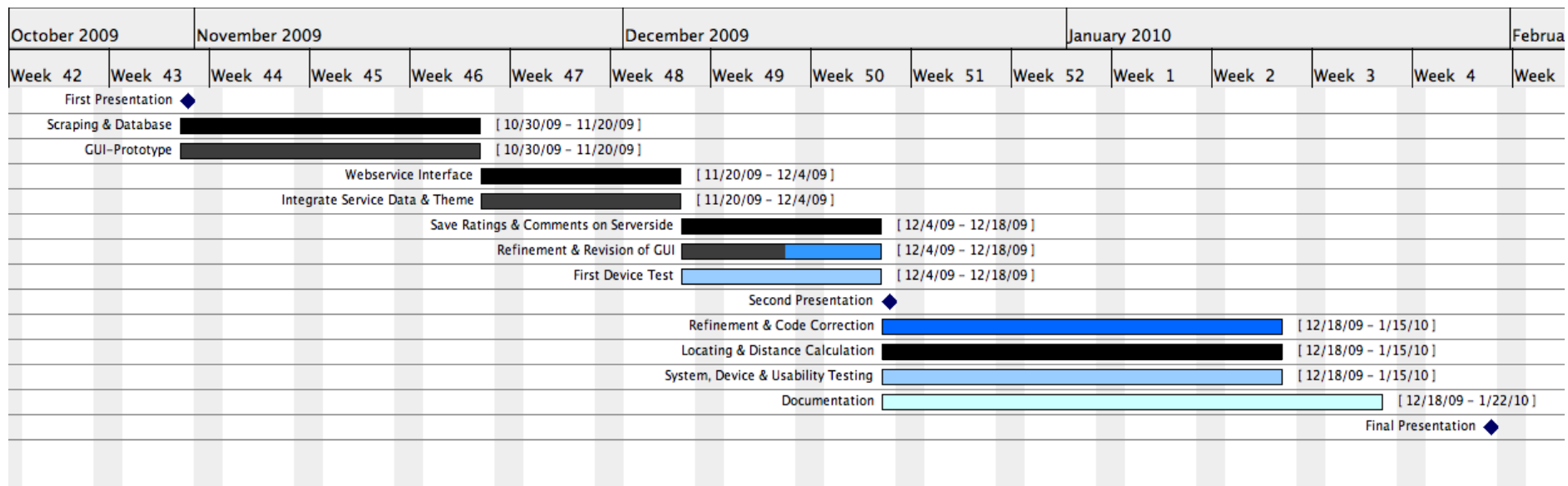
## heterogeneity

- usability at any devices supporting MIDP 2.0 and CLDC 1.1
- no tests on different devices done yet



## context awareness

- using location based information for calculating the distance to different refectories
- distance calculation to the different refectories at the server by means of google maps API and YOURS





**Thank you for your attention!**