TECHNISCHE UNIVERSITÄT DRESDEN

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

Application Development for Mobile and Ubiquitous Computing

Seminar Task 3
First Presentation

GroupNo. 9
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Mobile „university career manager”

Our mobile application offers you the following features for managing university career:

- Enroll for various lectures, such as exercise courses, seminars, practical courses etc.
- Check your personal timetable showing all your lectures you are enrolled to.

Application Scenario

How does it work so far:

- logs in with university e-mail and password
- Enters the URL of the server
- Syncronize with database
- Look up throught the list of owned courses on given semester
- possibility to add/remove course
- display details of subject

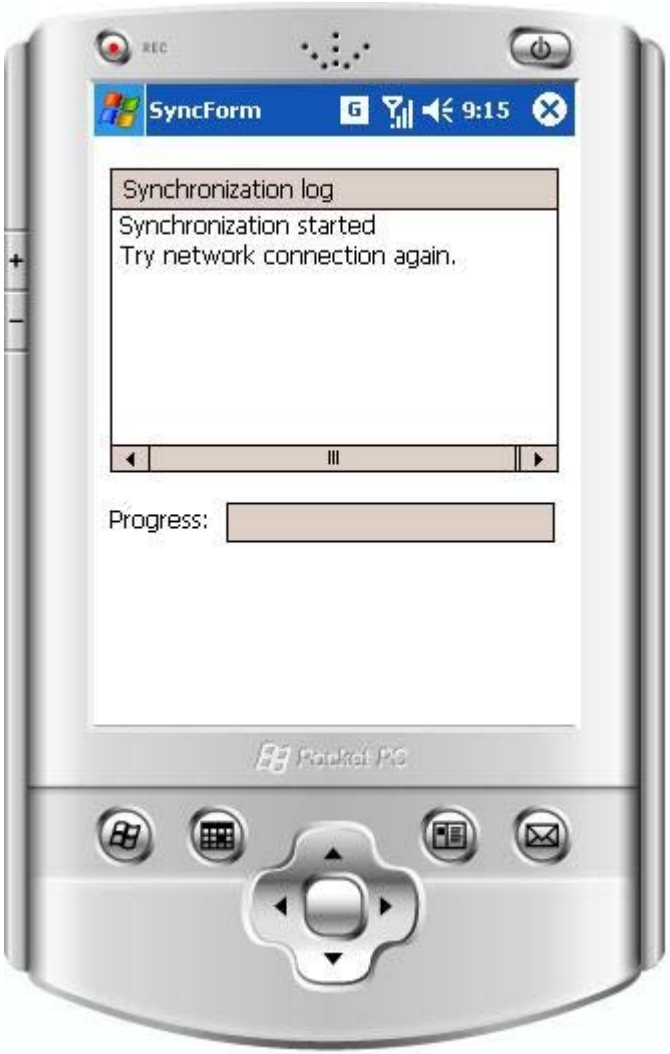
Use Case

- Log in - Student logs in with university e-mail and password

Use Case

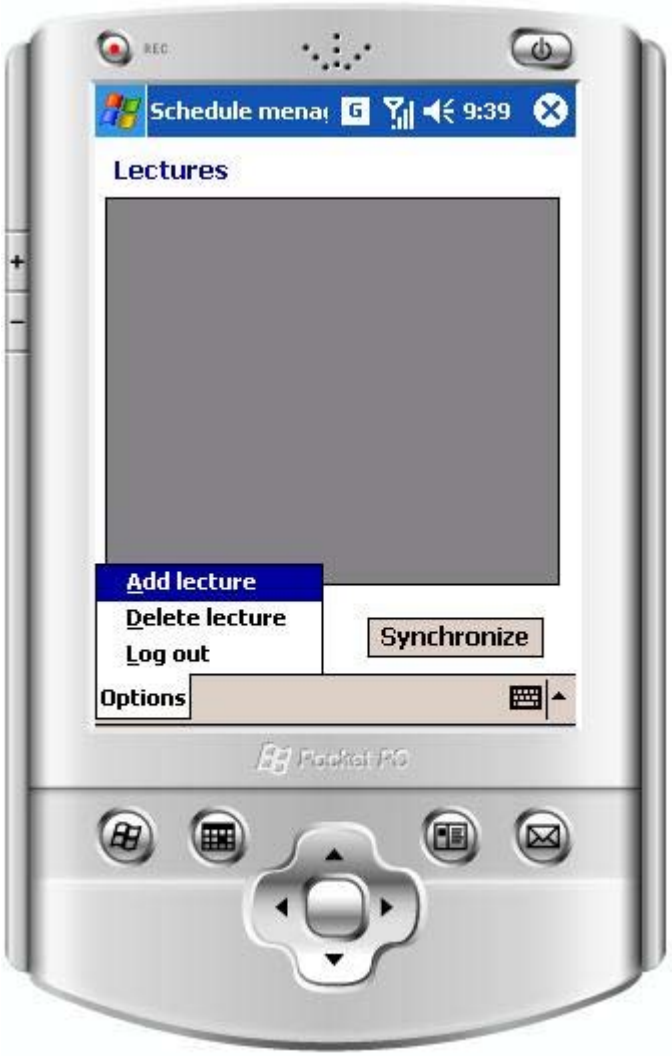
- Log in - student logs in with university e-mail and password
- Server URL – address of the server with Database

Use Case:



- Log in- student logs in with university e-mail and password
- Server URL – address of the server with Database
- Syncronization with the server

Use Case:



- Log in- student logs in with university e-mail and password
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- Syncronization with the server
- Overview of owned lectures

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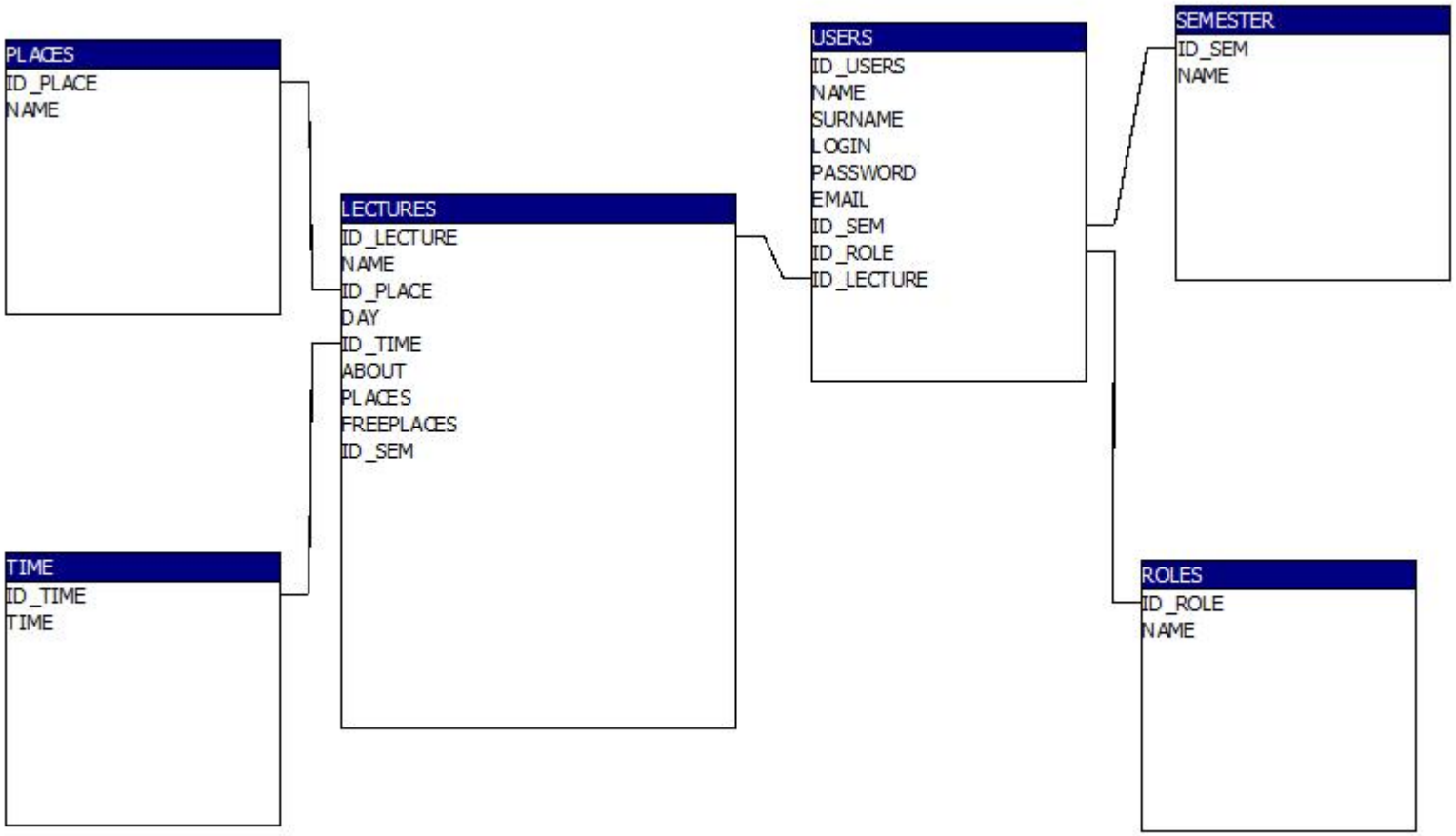
- Deteiled view of course

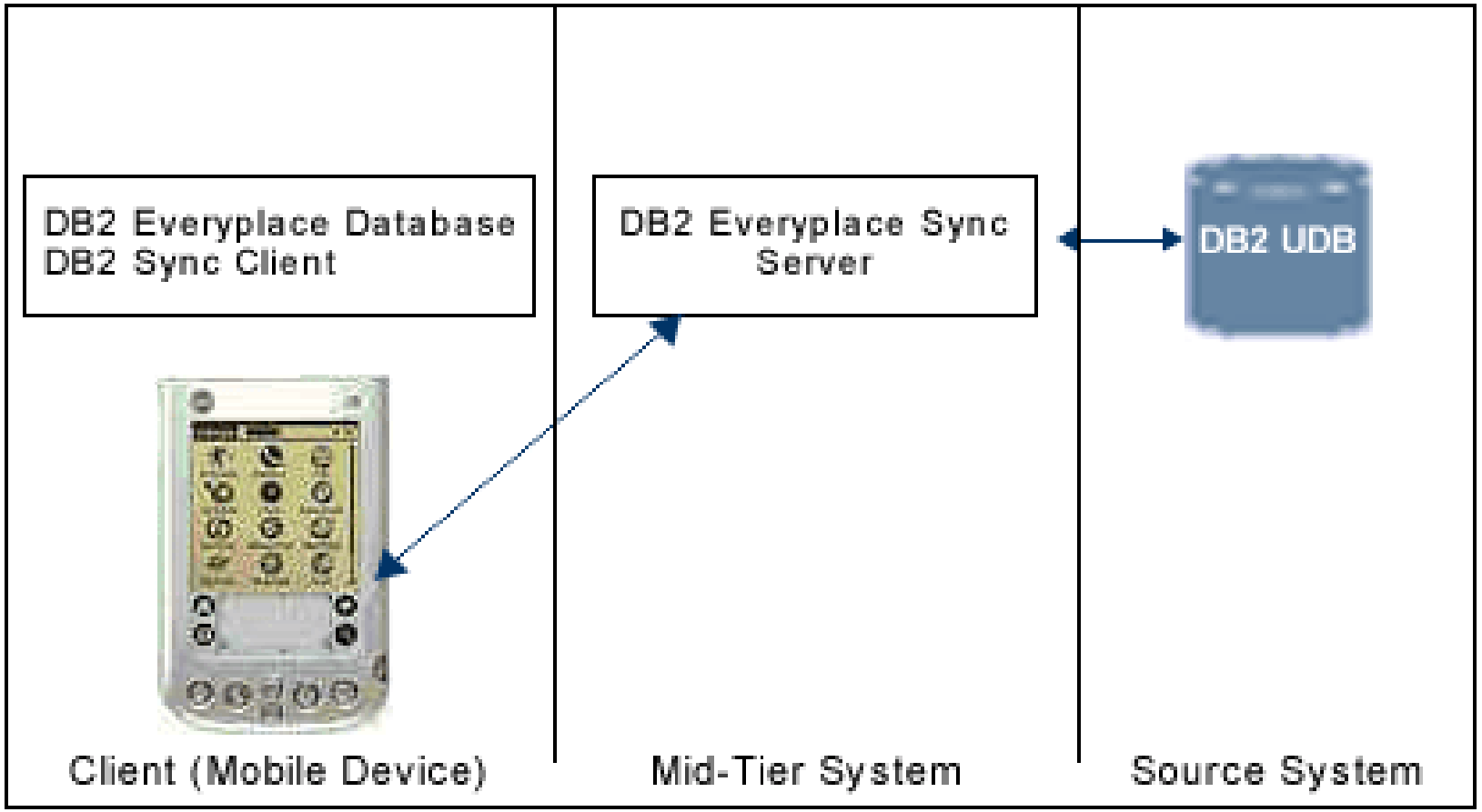
Technologies

- Microsfot .NET Compact Framework
- IBM DB2 Everyplace v9
- WLAN

Diagram of Database



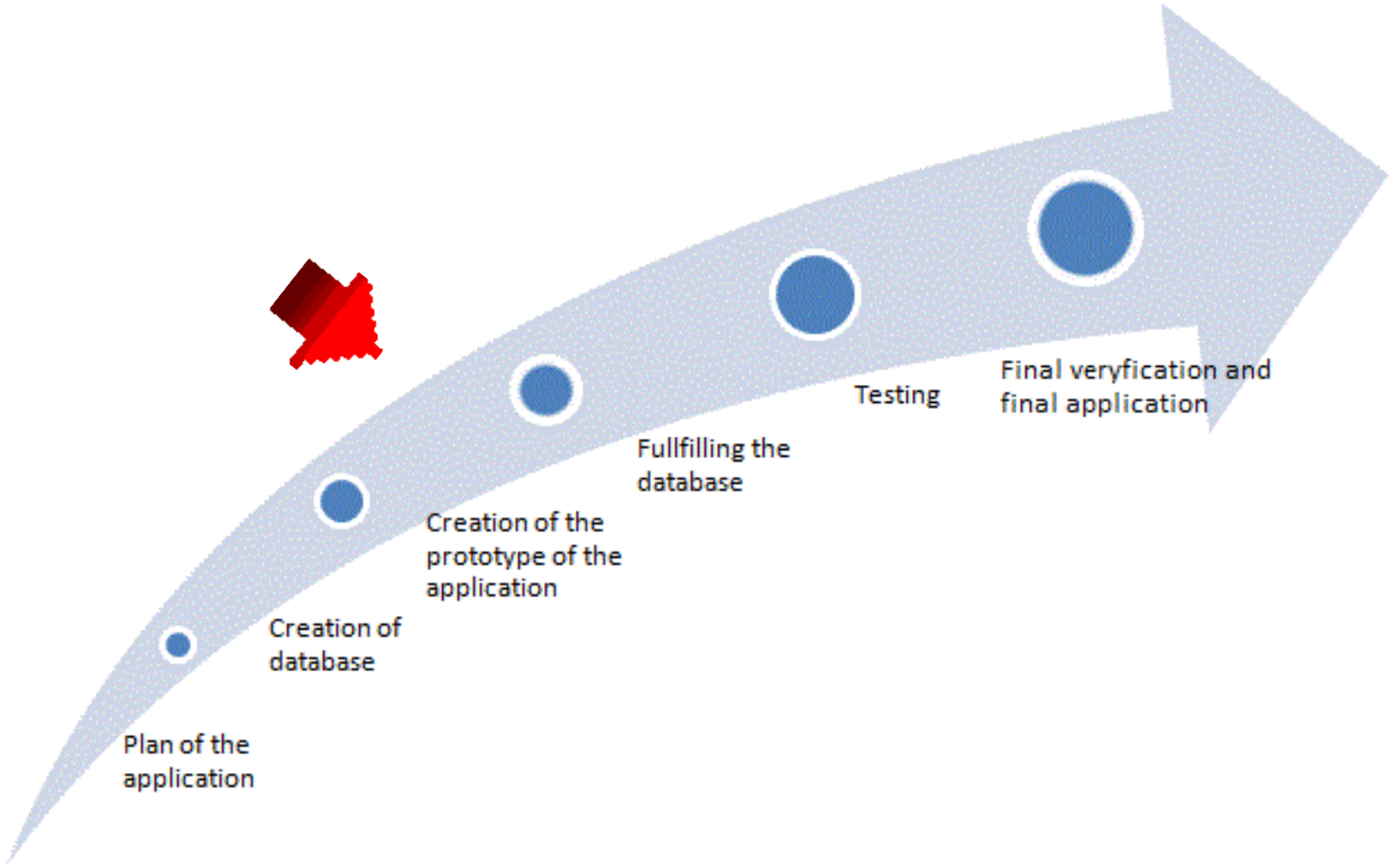
Technologies



Chalanges

- Privacy:
  - only student is able to manage his timetable via his account ☑
- Disconnections:
  - synchronization with other clients
- Synchronization (Client): ☑
  - courses in offer (Add/Delete)
  - sign in for course -> takes one place from the list
  - sign out from the course ->returns one place to the list
  - when the list is full subject is not available
- Our challenges:
  - Know and better understand enviroment of .Net compact framework and IBM DB2
  - check its usability on mobile devices

Work Plan


Plan of the application
Creation of database
Creation of the prototype of the application
Fullfilling the database
Testing
Final veryfication and final application

The end

Thank you for your attention!