TECHNISCHE UNIVERSITÄT DRESDEN

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

Application Development for Mobile and Ubiquitous Computing

Seminar Task
First Presentation

GroupNo. 4
Team: Xiaoyu Chen, Oscar Albrecht

Application Scenario

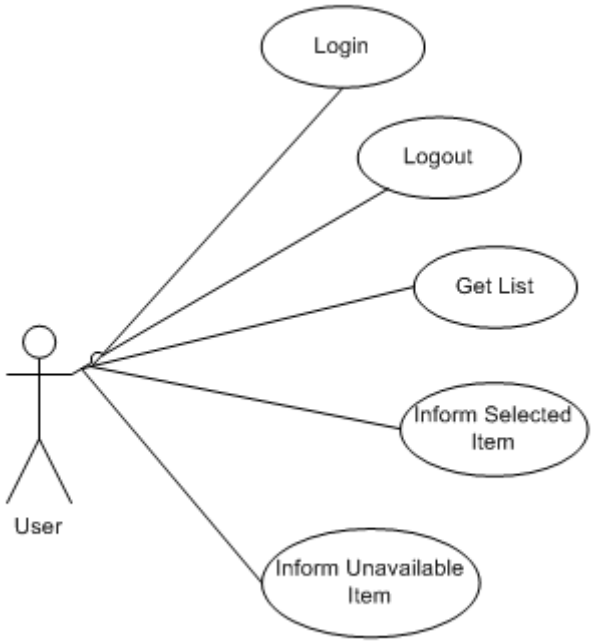
- Supermarkets!!!
- Small local storage, but big central storage
- The store has to require items to the central storage and these must be selected and sent
- Workers in the central storage receive a list of items regarding each request, select all the items and send it to the requesting store

Application Scenario

- Objective:
  - Enable more productivity by giving a mobile device that will get the information about the items to be selected and will be able to read the barcode in order to remove the list once it was selected, supporting the user in any “exception case” that may happen

Use Cases

- User should be able to login and logout
- User has to be able to get information about the order (list)
- User selects an item and informs the system, so it is removed from the list
- User informs unavailable items

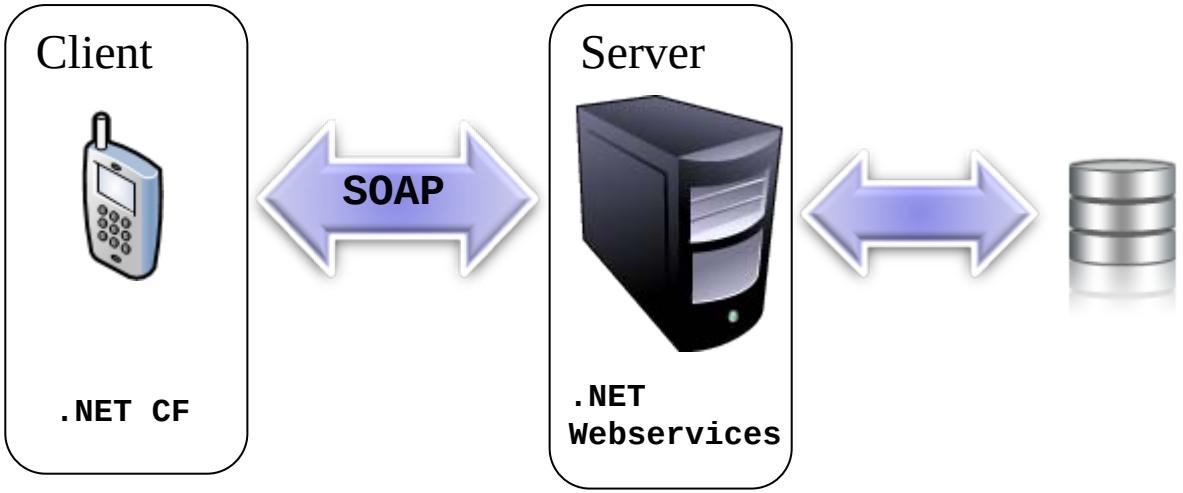


GUI Mockup

Login
Username
Password
Button

Main Form
Items
Beer
Beer2
Beer3
Item Selected
Get List
N/A Item
Logout

- How to do it?
  - Mobile devices using a .NET application and wireless LAN connection
  - Servers running .NET WebServices
  - Database
  - SOAP for communication between client and server



Challenges

- Mobile devices restrictions due to:
  - Small screen
  - Maximize usability
  - Low processing power (to process big lists coming from the Web Services)
  - Data security/safety regarding transmission and use of the device by others

Work plan

Date	Activity
30.10.2010	Learning
15.11.2010	Setting up the Environment
30.12.2010	Connection of client with server
15.12.2010	First Prototype
17.12.2010	Second Presentation
10.01.20100	Creation of webservice logic
20.01.2011	Client UI and logic
	„security time“
28.01.2011	Final Presentation
04.2.2011	Submission