Application Development for Mobile and Ubiquitous Computing

Supermarket Bill
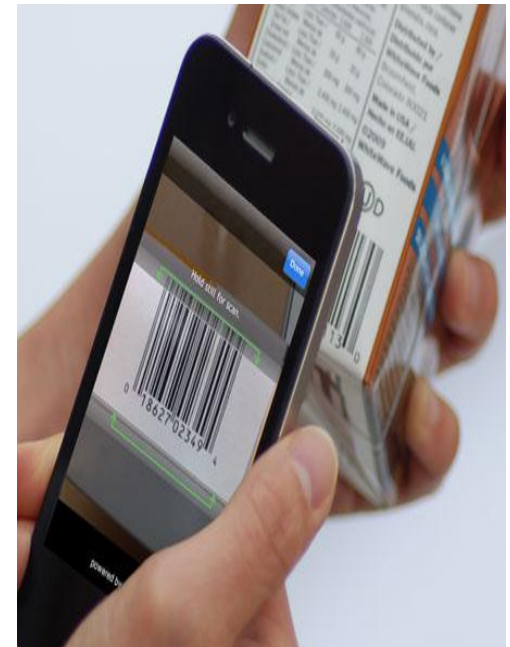
First Presentation

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Outline

- **Application Scenario**

- **Technologies**

- **Challenges**

- **Work Plan**

Application Scenario

- **Shopping in a Supermarket**
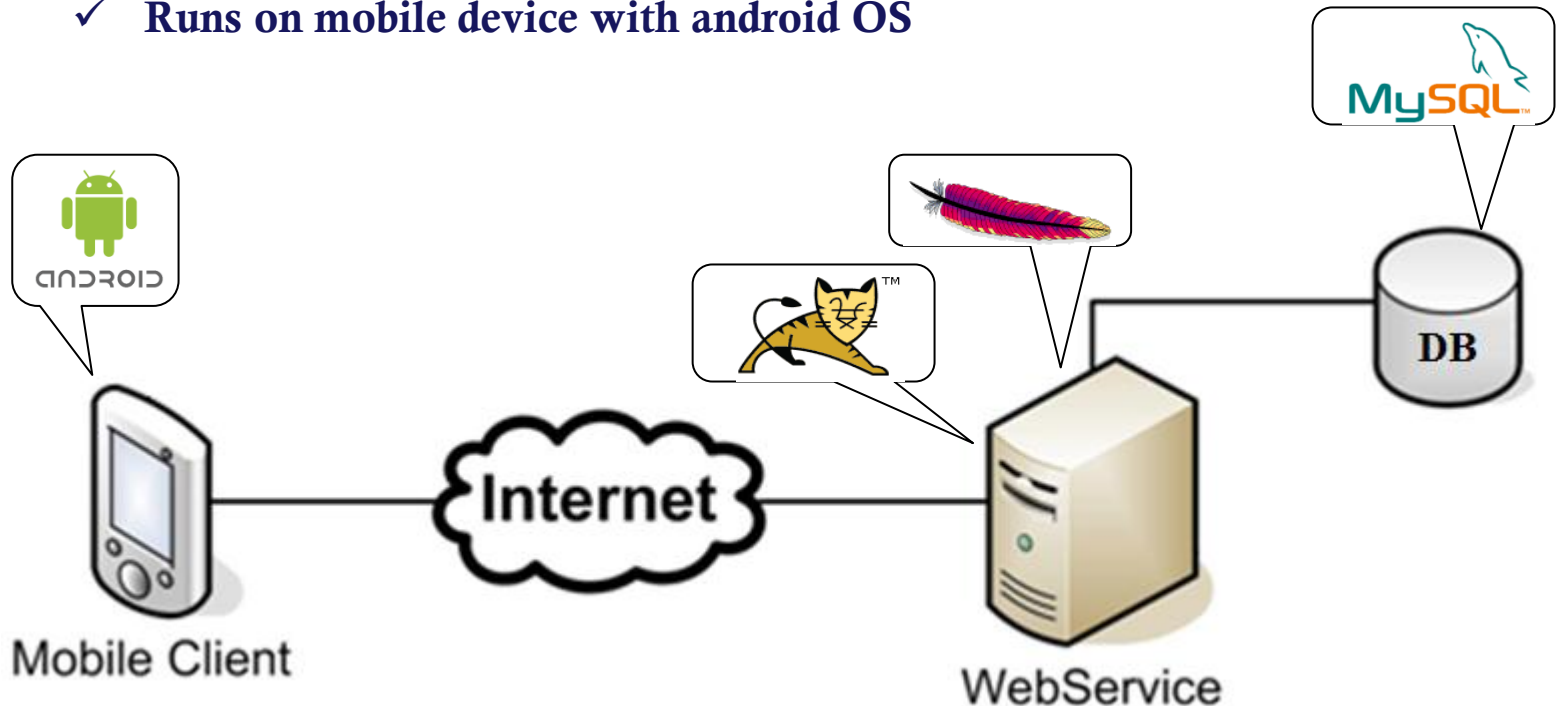
Technologies

- **Client/Server architecture**
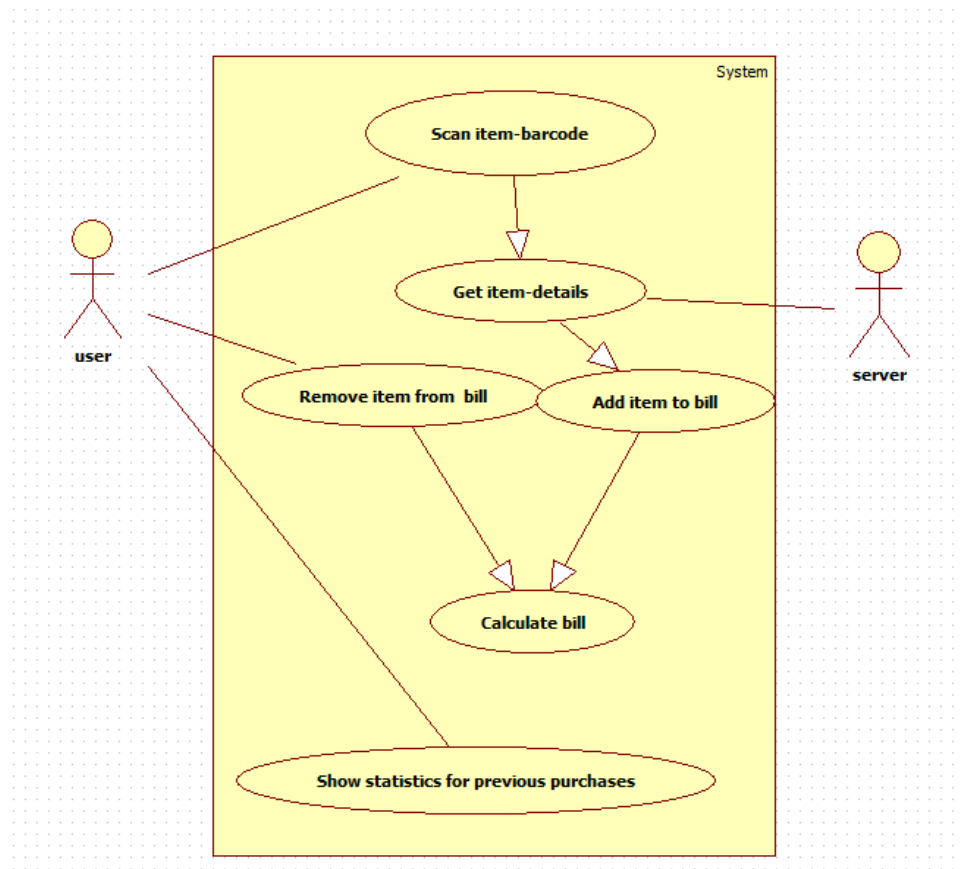 - **Server**
    - ✓ **Implemented using Apache Axis Web Services**
    - ✓ **Runtime environment used is Apache Tomcat 7.0.32**
    - ✓ **Connected to MySQL Server 5.5**
  - **Client**
    - ✓ **Runs on mobile device with android OS**

- Client – use case diagram

Challenges

- **Create an application for a mobile phone environment.**
  - ➢ **Barcode reading via camera => high battery consuption**
  - ➢ **Should be supported to various barcode systems**
  - ➢ **MobileImageViewer**
    - ✓ **Device Resourece – Small Diplay**

- **Connectivity – Low bandwidth/High delay**
  - ➢ **Should be used very simple and fast technology => difficult to wait more than 2s after scaning the barcode.**

Work plan

Task	Start	End	Done by
Developing the Android application	26.10.2012	14.12.2012	Chinthaka
Implement the Web Service connected to a database	26.10.2012	14.12.2012	Luiz
Access the server functionality and testing	15.12.2012	31.12.2012	Chinthaka & Luiz

Thanks for your attention.