



# Application Development for Mobile and Ubiquitous Computing

## Supermarket Bill

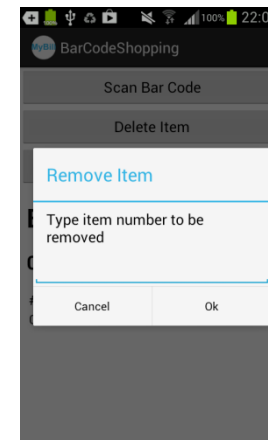
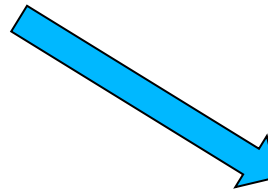
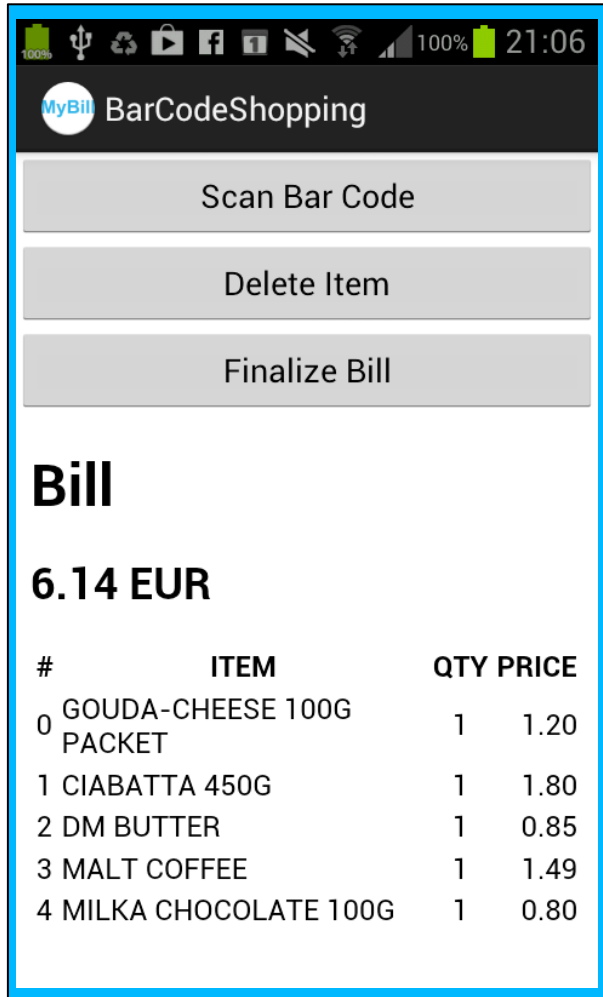
### Second Presentation

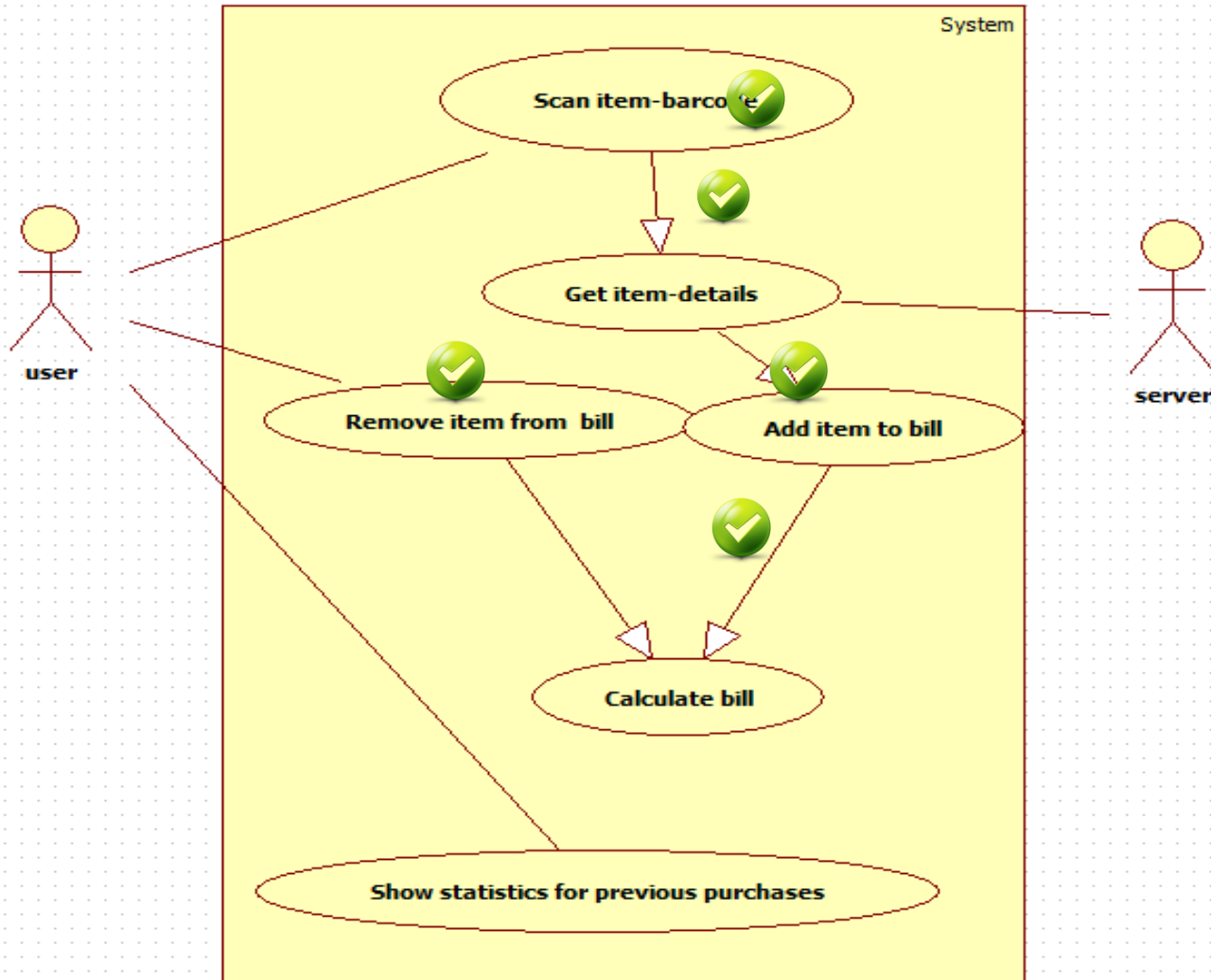
Group No: 2

Team: Luiz Alberto de Assis Borges  
Chinthaka Henadeera



Supermarket Bill





Supermarket Bill

## Client

- Scanning Bar Code
  - We use Zxing (Zeebra Crossing) library to barcode image processing.
  - An open source , multi-format 1D/2D barcode image processing library implemented in Java, with ports to other languages
  
- Unmarshelling Received XML
  - We use simple array based program to aquire the fields like „Item“ and „Unit Price“ from the xml.
  - No DOM or SAC libraries.
  
- Momory Structure
  - Records of the bill are kept in a linked list, untill finalize the bill.

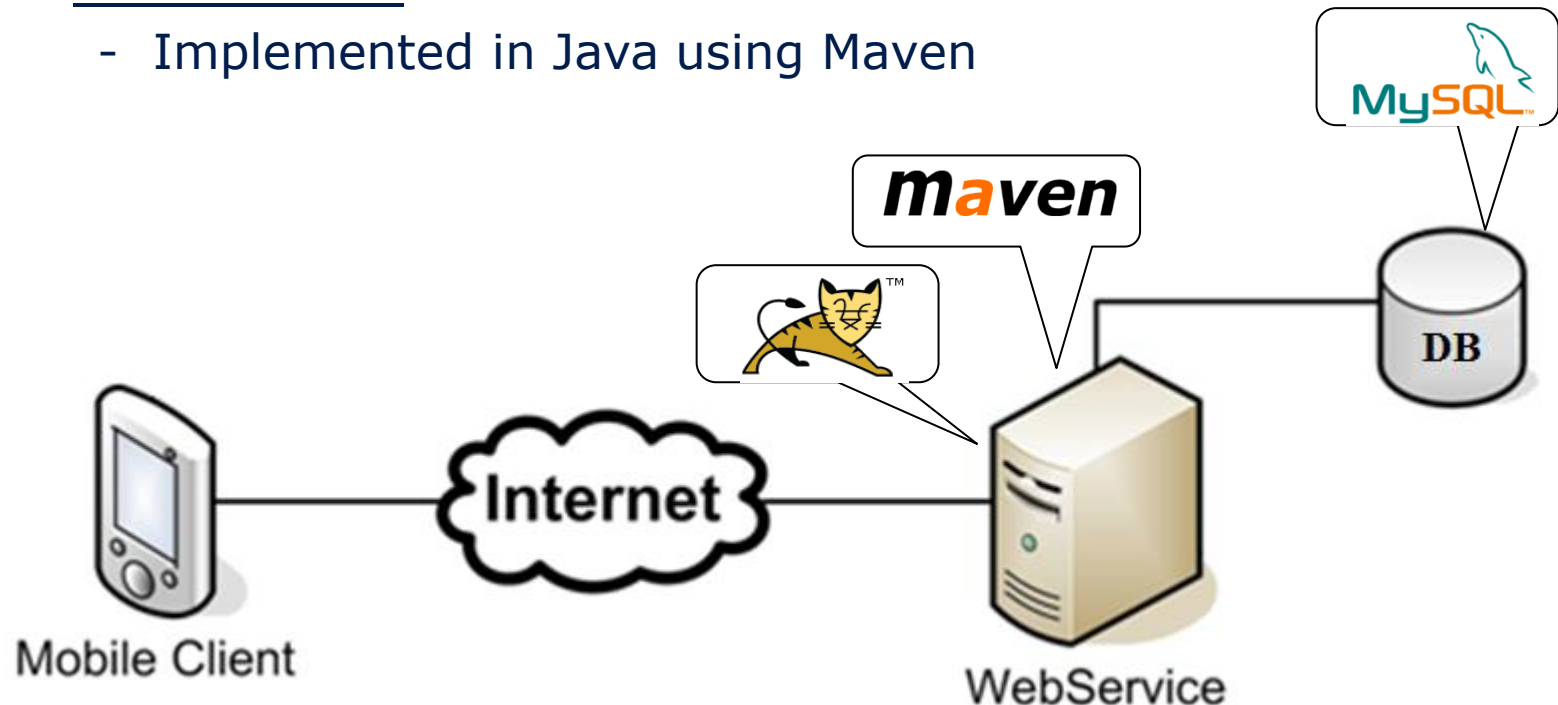
## Server

### ➤ Server

- Runtime environment used is Apache Tomcat 7.0.32
- Connected to MySQL Server 5.5

### ➤ Web Service

- Implemented in Java using Maven



- A method of input of quantity of a item (when more than 1).
  - should be a practical way.
- Have to learn how to deal with „SQLite“ to save bills to the persistent memory.
- Observed an unexpected stop of the program when WiFi connection drops in between sending and receiving data.

Task	Start	End	Done by
To show statistics about previous purchases	15.12.2012	30.12.2012	Chinthaka
Testing	15.12.2012	30.12.2012	Luiz
Access the server functionality and testing	02.01.2013	12.01.2013	Chinthaka & Luiz