

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

Application Development for Mobile and Ubiquitous Computing

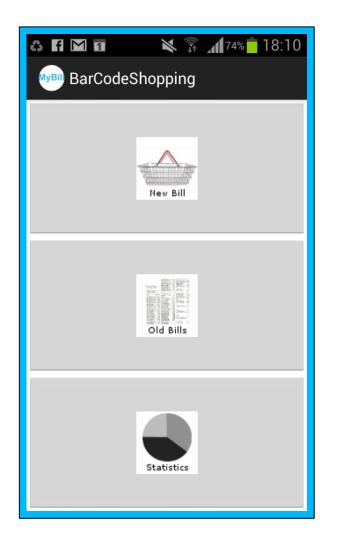
Supermarket Bill

Second Presentation

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Application Scenario



Supermarket Bill

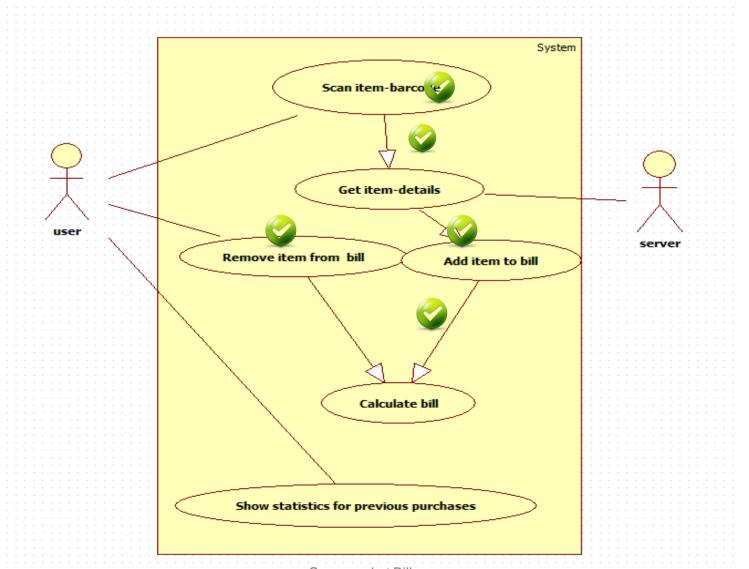


Application Scenario Cont.

Scan Bar Coo	de		
Delete Item			S010002
Finalize Bill			
Bill			61≣ ∳610 ×?⊪
6.14 EUR			Scan Bar Code
# ITEM	QTY	PRICE	Delete Item Remove Item Type item number to be
0 GOUDA-CHEESE 100G PACKET	1	1.20	removed
	1	1.80	Cancel
1 CIABATTA 450G		0.85	
1 CIABATTA 450G 2 DM BUTTER	1		
	1 1	1.49	



Application Scenario Cont.





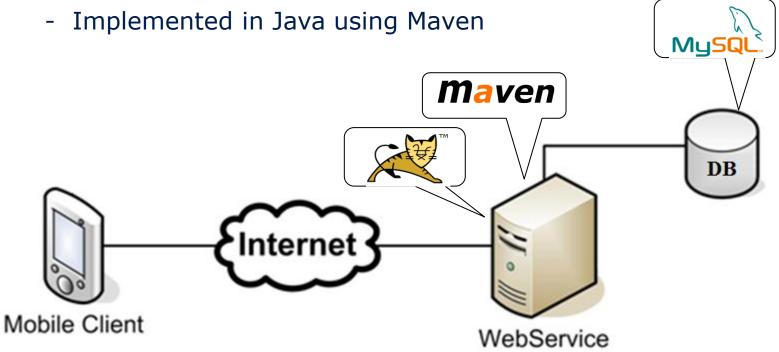
Client

- Scaning Bar Code
 - We use Zxing (Zeebra Crosssing) 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





- A method of input of quentity 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 persistant memory.
- Observed an unexpected stop of the program when WiFi connection drops in between sending and reciving data.



Task	Start	End	Done by
To show statistics about previos perchases	15.12.2012	30.12.201 2	Chinthaka
Testing	15.12.2012	30.12.201 2	Luiz
Access the server functionality and testing	02.01.2013	12.01.201 3	Chinthaka & Luiz