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

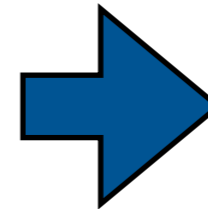
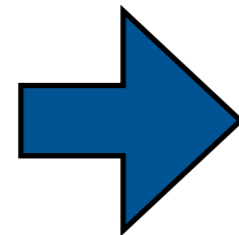
Application Development for Mobile and Ubiquitous Computing

“iGrocShop”

Seminar Task - First Presentation

Group 2

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ROSSMANN



Existing Problems:

- time consuming in making the list
- time consuming in finding items
- may missed out items
- difficult to share your knowledge

Proposed Solution:

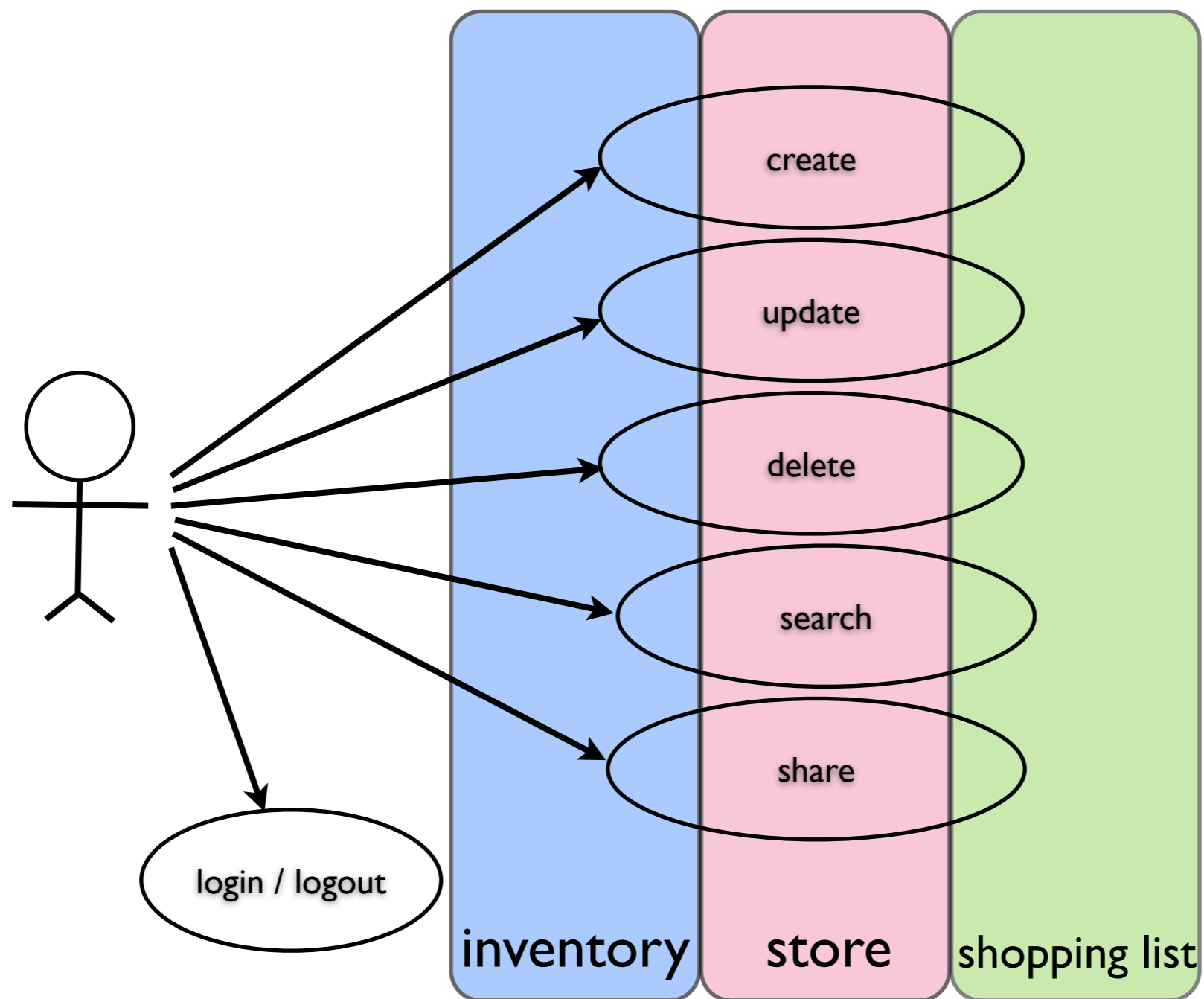
“iGrocShop”

A mobile application that:

- allow users to **manage inventory** of their grocery lists
- allow users to **keep track** of available goods by aisles in certain shop of their choice
- allow users to **manage shopping lists** from previously saved list or new one from an existing inventory
- allow users to **share** their shopping lists to others



Application Scenario - use cases





Size and weight

- Height: **4.5** inches (115.5 mm)
- Width: **2.4** inches (62.1 mm)
- Depth: **0.48** inch (12.3 mm)
- Weight: **4.8** ounces (135 grams)

Cellular and wireless

- UMTS/HSDPA (850, 1900, 2100 MHz)
- GSM/EDGE (850, 900, 1800, 1900 MHz)
- 802.11b/g Wi-Fi
- Bluetooth 2.1 + EDR wireless technology

Display

- 3.5-inch (diagonal) widescreen Multi-Touch display
- 480-by-320-pixel resolution at 163 ppi
- Fingerprint-resistant oleophobic coating
- Support for display of multiple languages and characters simultaneously



Start Page

iGrocShop provides multi-user access and many functions such as inventory management, keep track of stores, shopping list, sharing, and account management.



Inventory Management

User can manage inventories that will be used in the application to be understood with the same name.

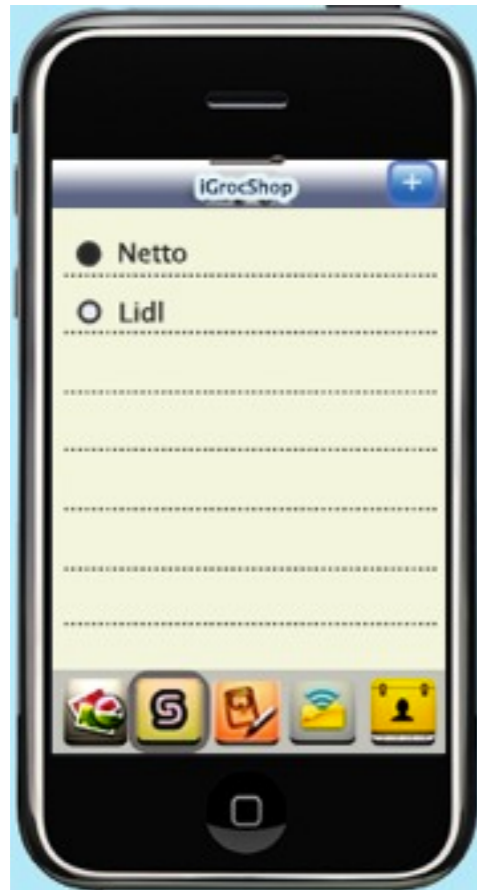
Shopping List

The list can be created very easy by selecting from inventory list and put more details such as weight or number



Keep track of stores

Each store in the list has many details inside. User can manage a store by creating aisles and putting inventories into the aisles. Moreover, the shopping list can be selected and shown inventories in each aisle.





Sharing

The stores in the list can be shared to other users by uploading data to the sever. On the other hand, user can see others' data as well.

Account Management

User can create a new account or change some information of the existing account.





Tool

- XCode

Framework

- Cocoa Framework

Programming Language

- Objective-C



Restricted Mobile Device Capabilities:

- memory disk
- data management

Customer Satisfaction

- usability
- data security & safety

Heterogeneity in user requirements

- personalization and individualization

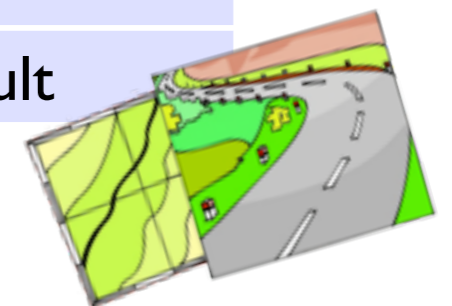


Heterogeneity of input and output device:

- input: keyboard, screen
- output: display, size, color depth, resolution



Date	Tasks
~ 31.10.2010	Literatures Review
29.10.2010	First Presentation
~14.11.2010	Database Setup
~21.11.2010	Implementation of LBS
~5.12.2010	GUI Prototyping
~12.12.2010	Server Setup
17.12.2010	Second Presentation
~16.01.2011	System & Usability Test
~22.01.2011	Documentation
28.01.2011	Final Presentation
4.02.2011	Submission of final result





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**Thank You
for
Your Attention**