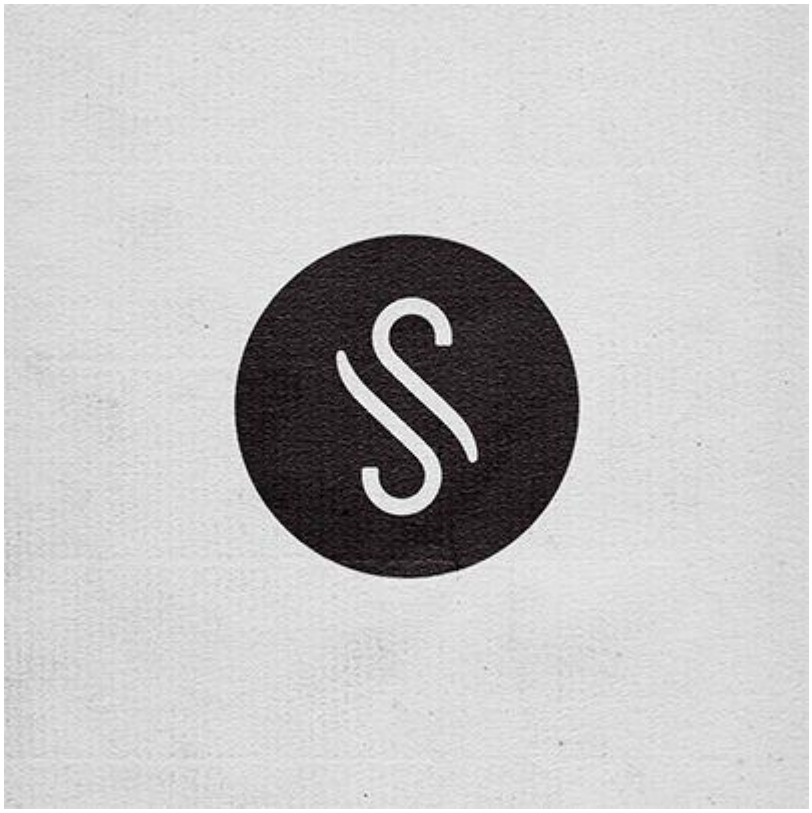
Second Increment Report-Fall 2016



TEAM - 6

- Kona, Lakshmi Nikitha – 22
- Ramesh, Sibi Chakravarthy – 45
- Natesan Arumugam, Bharath Kumar – 37
- Natarajan, Balaji - 36

Table of Contents

I. Introduction

Share up is a multi-platform application which saves the lot of bucks you spend in buying grocery items by searching for the cheaper and precise deals, for the people who want to shop together. Most of the groceries people tend to buy will probably be similar. So, if they buy those things in bulk they are likely to save a lot of money. They likely to face problems in sharing household expenses due to lack of understanding. In order to overcome these problems, we planned to create this application which significantly overcomes the above mentioned problems in an efficient way. Each person who signs up has the credentials to create a group and add members to it. Each group will have a shopping list which any member can access and modify. So, for all the common things you can find cheaper deals, as our idea is to find one in bulk. The unnecessary portion which is yet to be bought can be shared with other members of any group by posting in a common forum visible to all other users who can contact the user to buy. The application also contains features to keep track of the money people owe each other, their monthly expenses and prediction of monthly as well as yearly expenses.

II. Project Goal and Objectives

Overall goal

The goal of this project is to create an android application which is useful for people living together in shared rooms/apartments for spending money smartly and share wisely.

Objectives

- To reduce cost of buying items by smart spending feature.
- To get price of grocery items using API call(s).
- To provide common shopping list for all the members in a group.
- To test the application before deploying in order to uncover bugs.

Specific Features

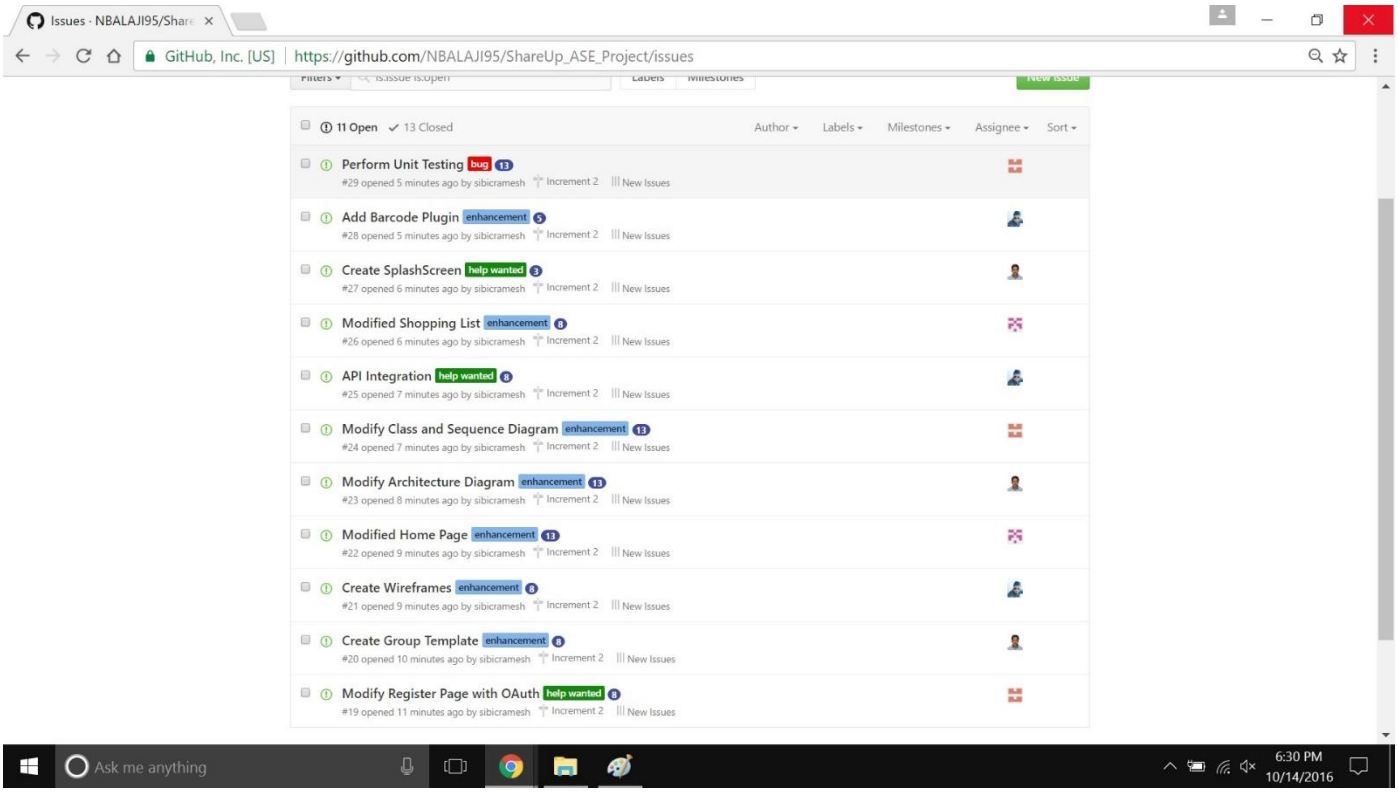
- Smart spending feature - which finds match for the required product with required quantity.
- Shopping list - which contains things that need to be purchased in the near future.
- Expense Manager - to manage bills and shared expenses among roommates.
- Common forum for sharing the product to be bought (quantities specified by the hosting group).
- Scanning items with barcode plugin.

Significance

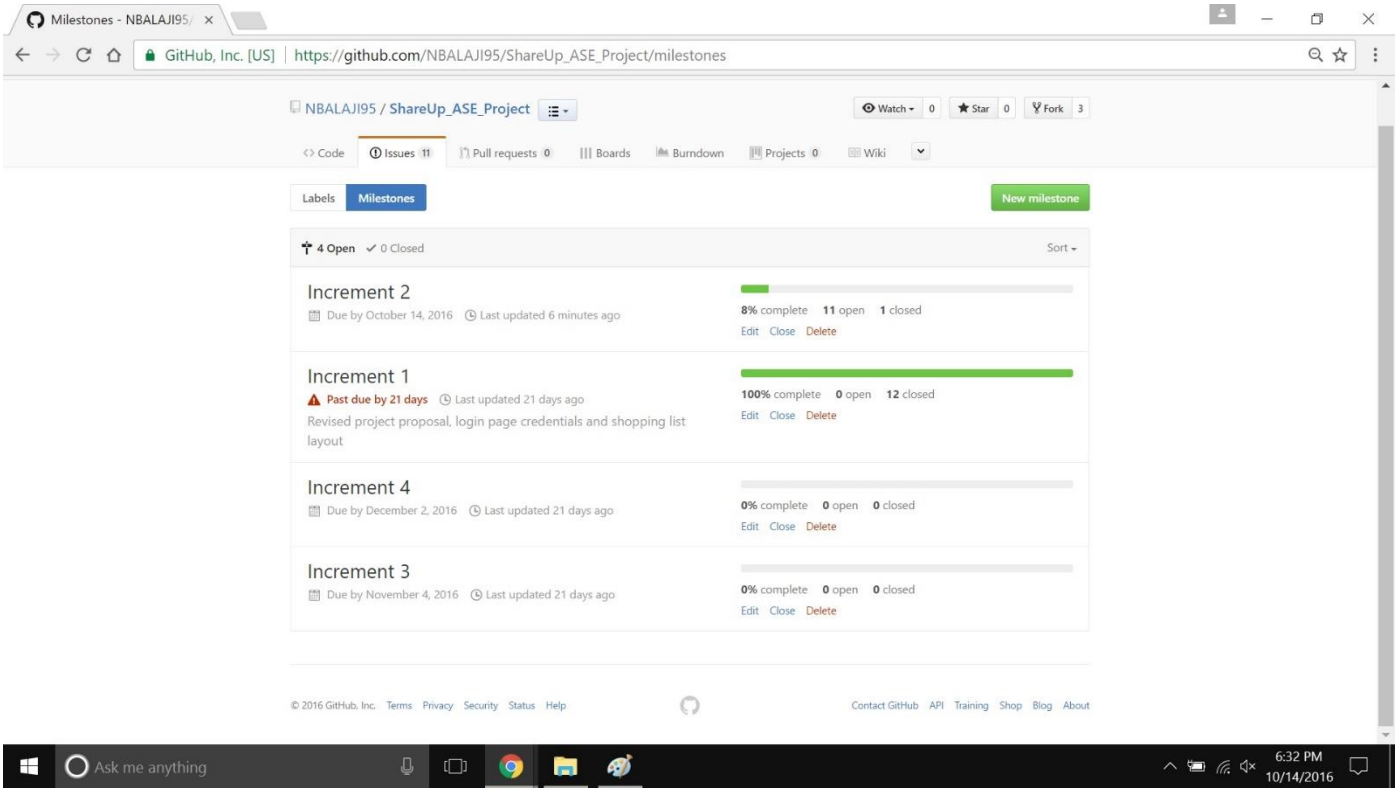
Smart spending and sharing will definitely change the way people spend for buying grocery items and manage their expenses. There may be many applications which offer similar features, but this application performs these tasks in a single user interactive application.

III. Project Plan

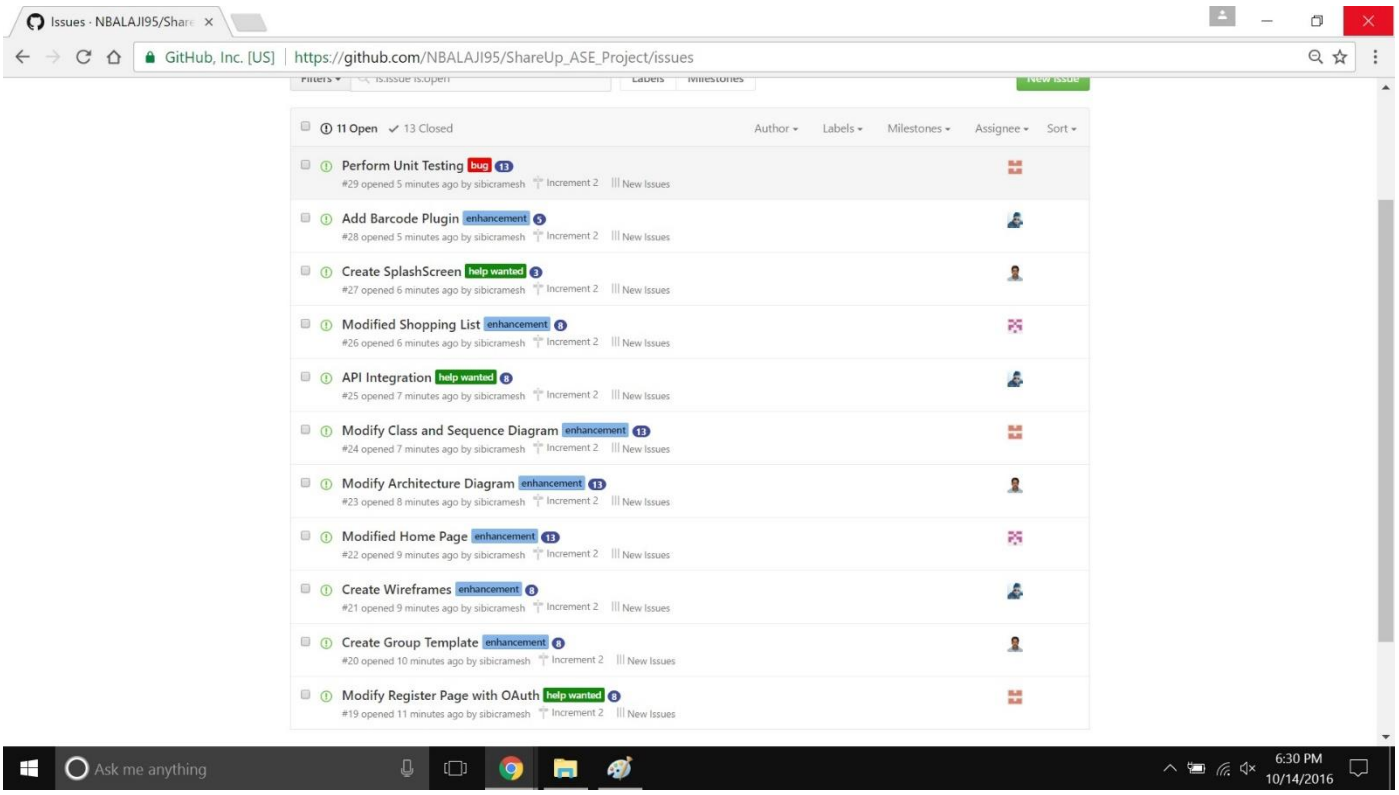
Stories(Issues)



Project Timelines

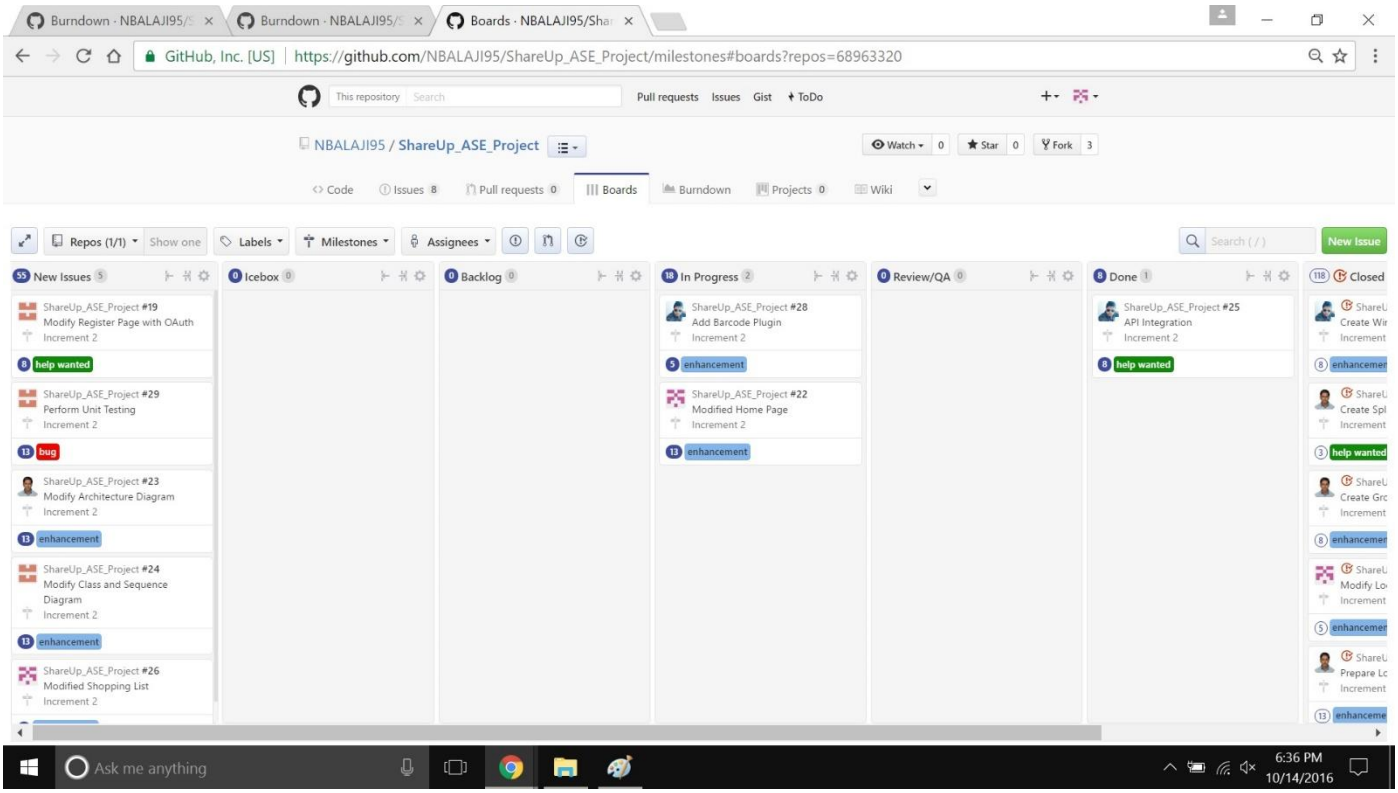


Task Responsibility



Burndown Chart

Board


Boards · NBALAJI95/Shar
GitHub, Inc. [US] | https://github.com/NBALAJI95/ShareUp_ASE_Project/milestones#boards?repos=68963320
Pull requests Issues Gist + ToDo
NBALAJI95 / ShareUp_ASE_Project
Watch 0 Star 0 Fork 3
Code Issues 8 Pull requests 0 Boards Burndown Projects 0 Wiki
Repos (1/1) Show one Labels Milestones Assignees
Search (/) New Issue
55 New Issues 5
0 Icebox 0
0 Backlog 0
18 In Progress 2
0 Review/QA 0
8 Done 1
110 Closed
ShareUp_ASE_Project #19
Modify Register Page with OAuth
Increment 2
8 help wanted
ShareUp_ASE_Project #29
Perform Unit Testing
Increment 2
13 bug
ShareUp_ASE_Project #23
Modify Architecture Diagram
Increment 2
13 enhancement
ShareUp_ASE_Project #24
Modify Class and Sequence Diagram
Increment 2
13 enhancement
ShareUp_ASE_Project #26
Modified Shopping List
Increment 2
ShareUp_ASE_Project #28
Add Barcode Plugin
Increment 2
5 enhancement
ShareUp_ASE_Project #22
Modified Home Page
Increment 2
13 enhancement
ShareUp_ASE_Project #25
API Integration
Increment 2
8 help wanted
Ask me anything
6:36 PM
10/14/2016

IV. Second Increment Report

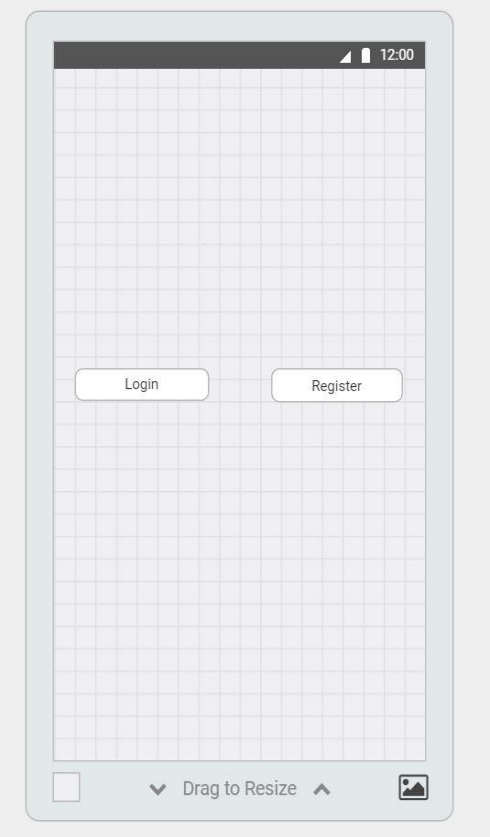
Existing Services/REST API

To get that particular product information, we use product lookup API from Walmart Open API by passing the barcode result as input. The product name and price are displayed.

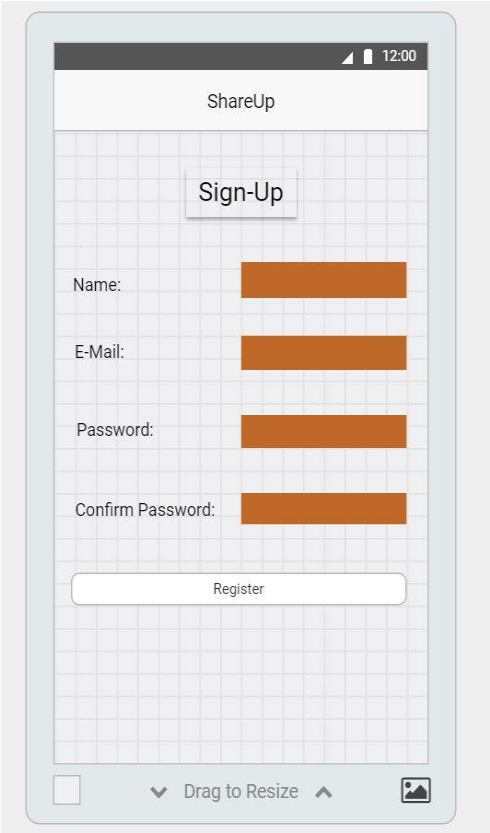
Barcode Plugin is included in order to scan the UPC (Universal Product Code) codes and result and format of the code are displayed.

Detail Design of Features (using tools) Wireframes

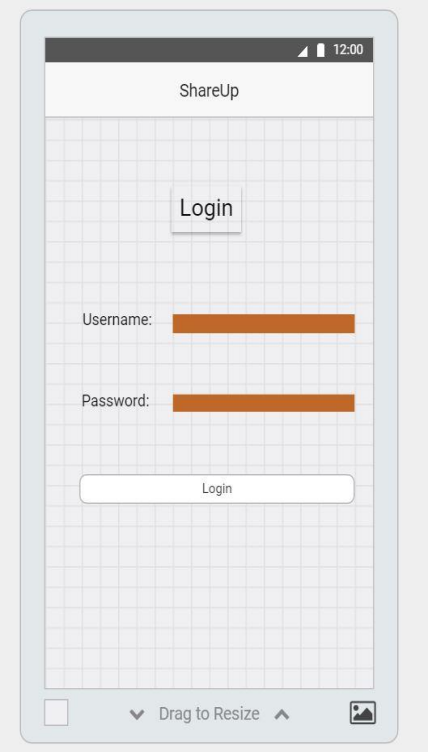
Welcome Page



Register Page

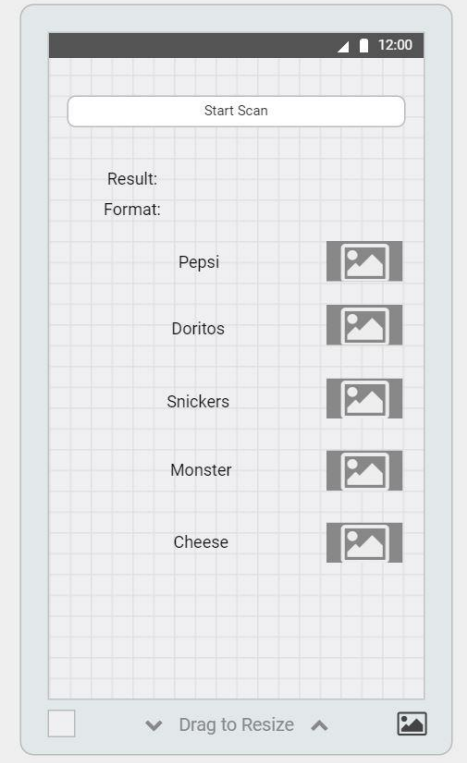


Login Page



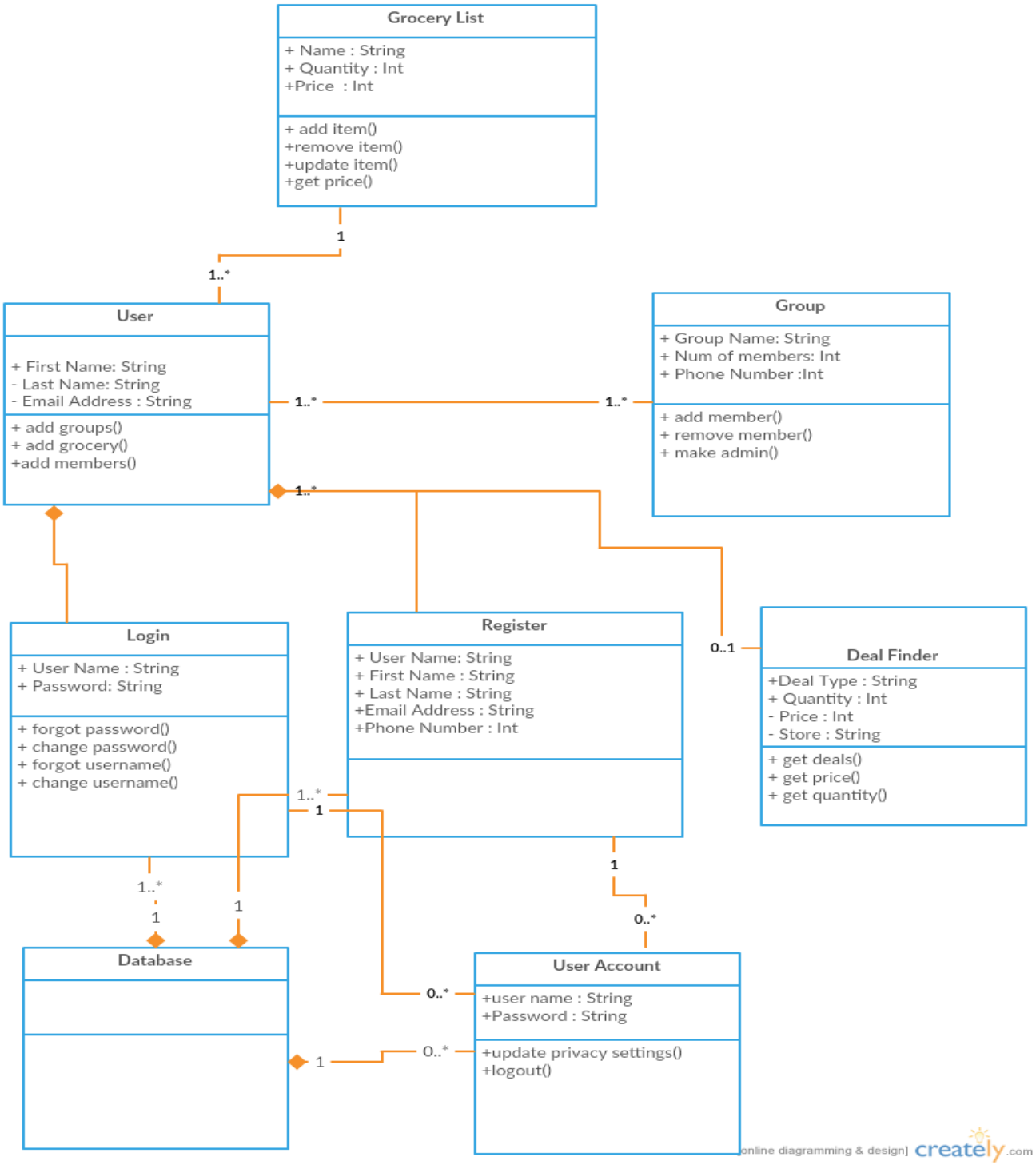
Home Page

Grocery List

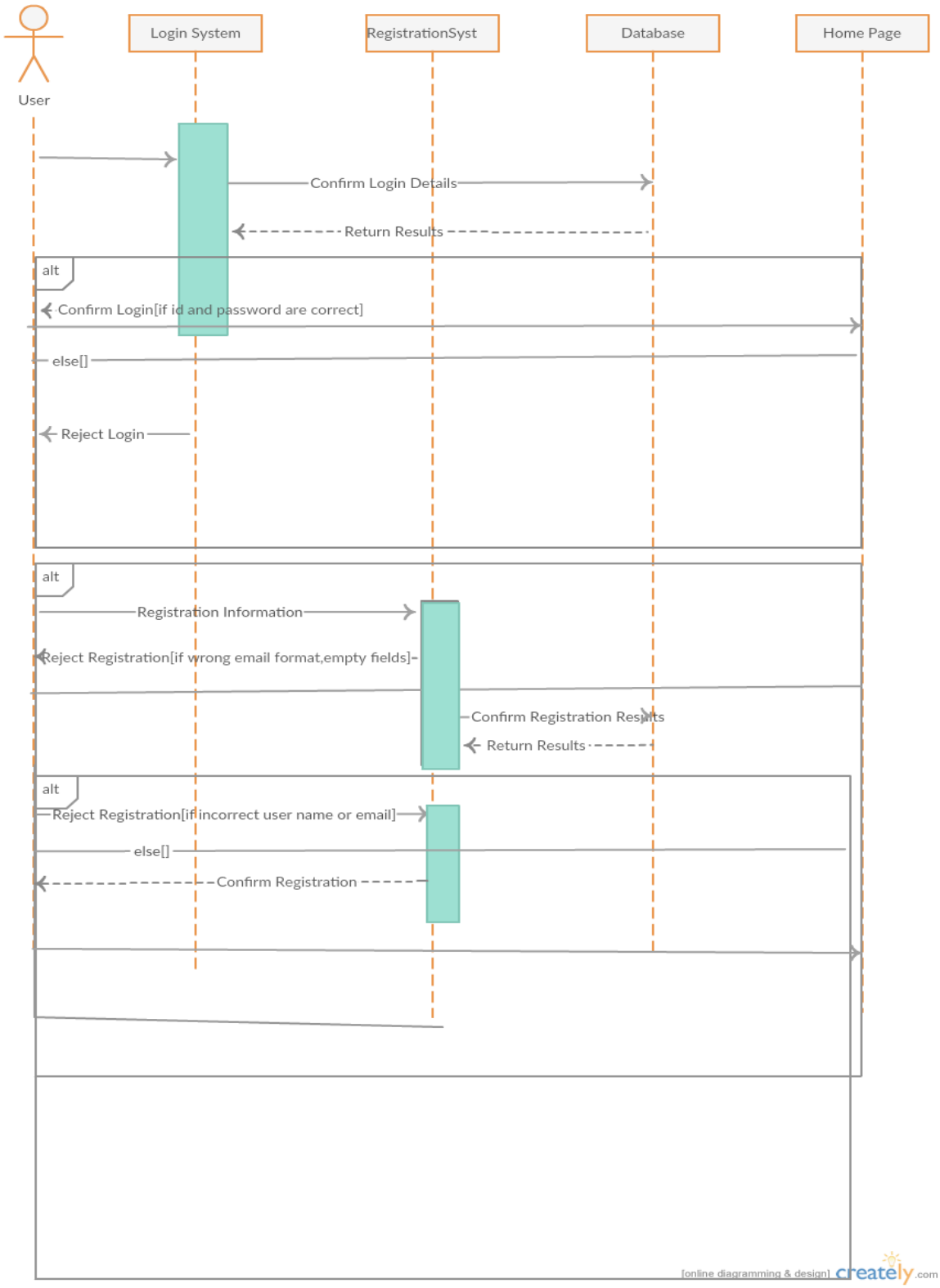


Groups

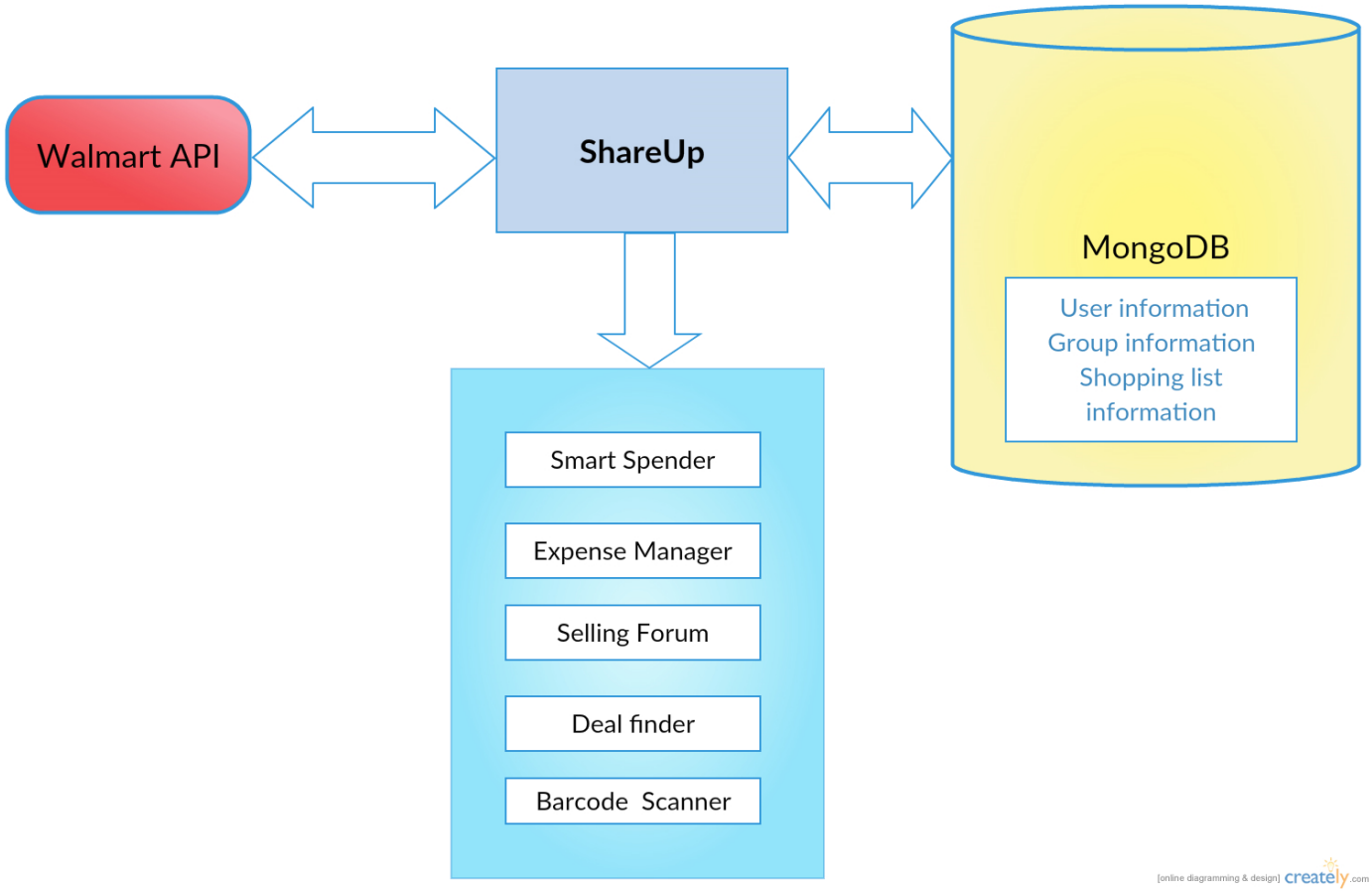
UML Class diagram



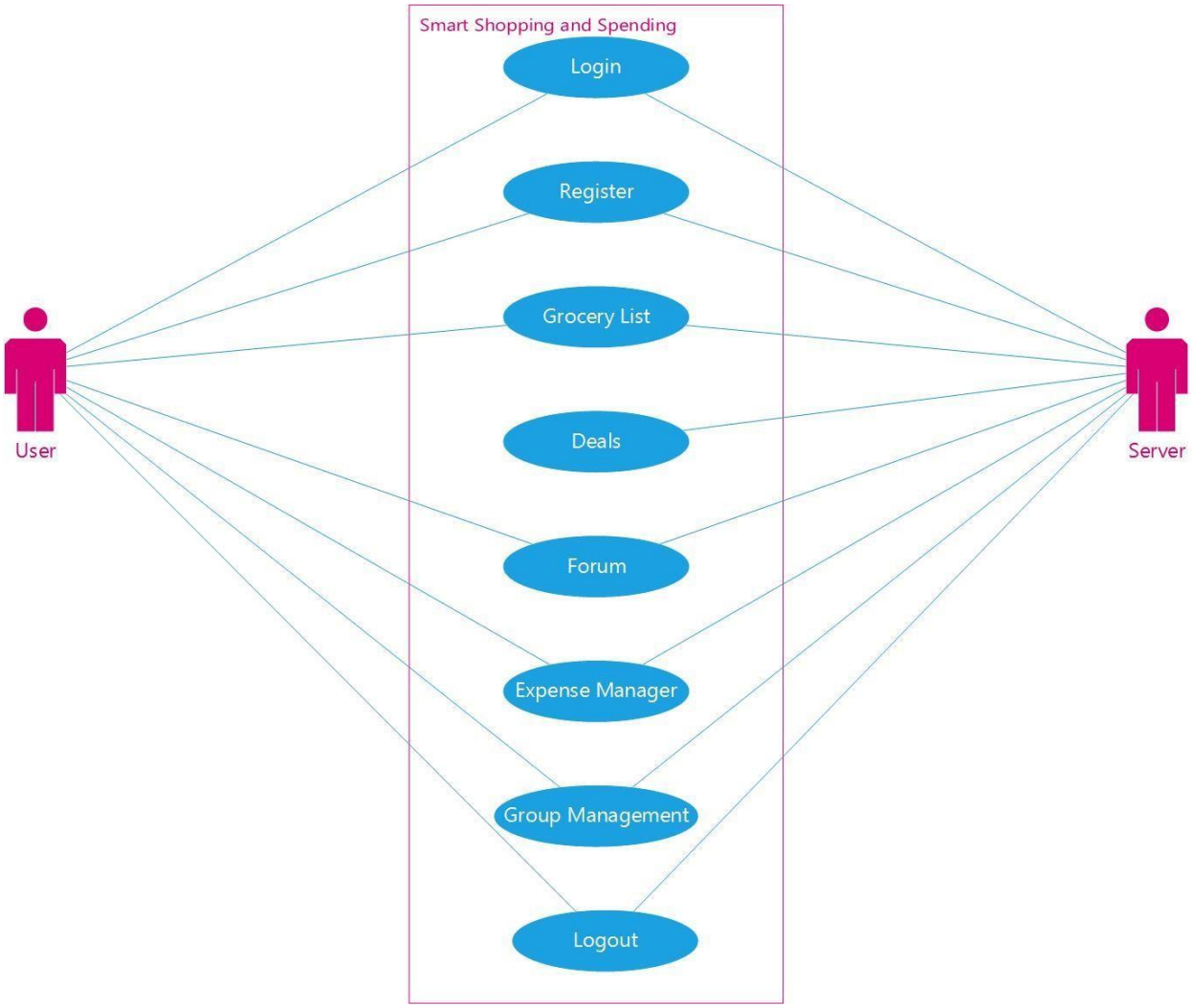
Sequence Diagram



Architecture Diagram



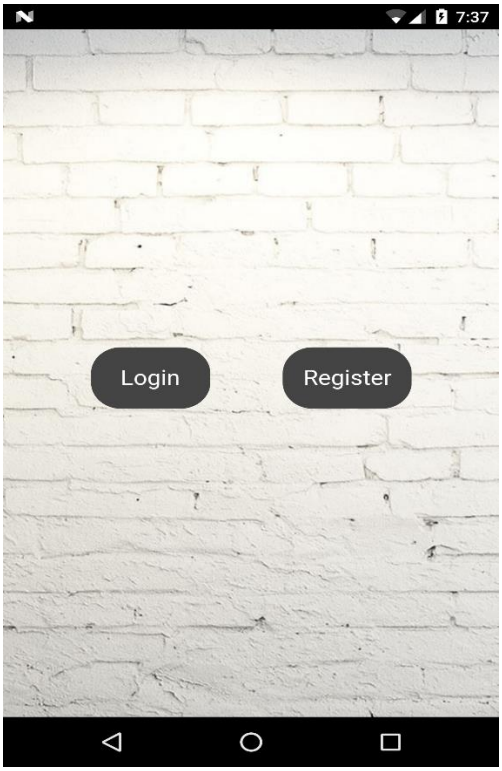
Use Case Diagram



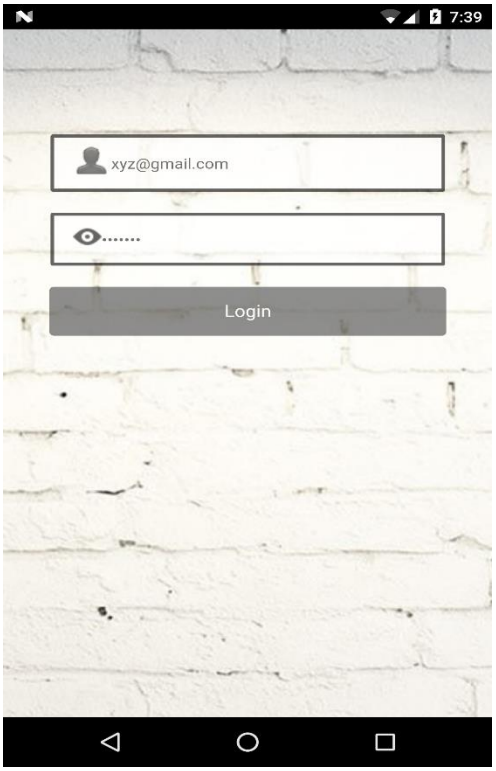
Implementation screenshots

Android:

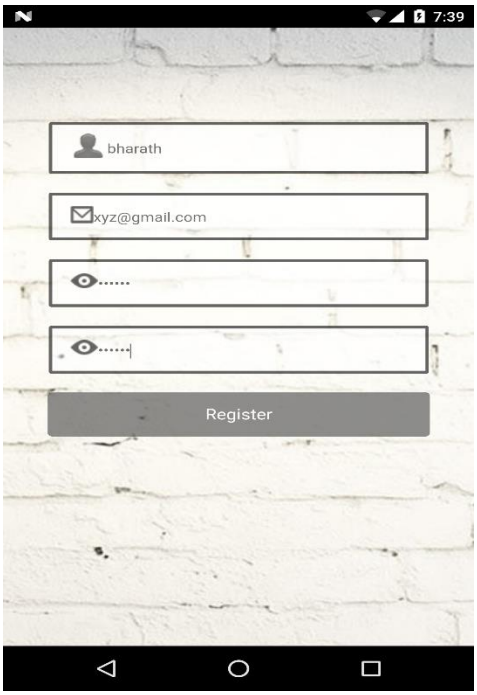
Welcome Page



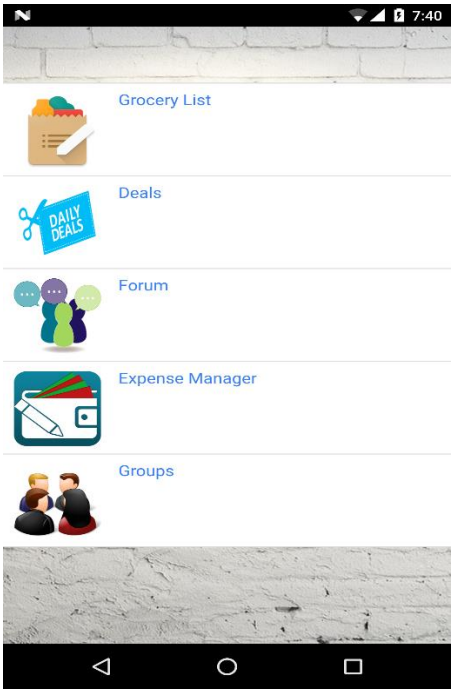
Login Page



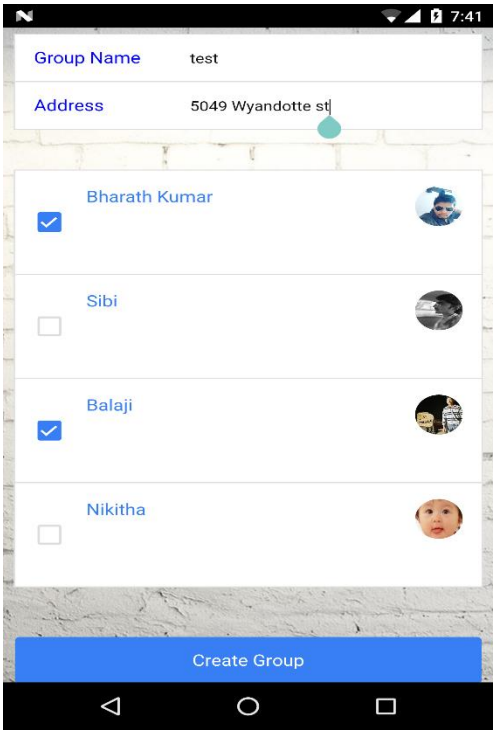
Register Page



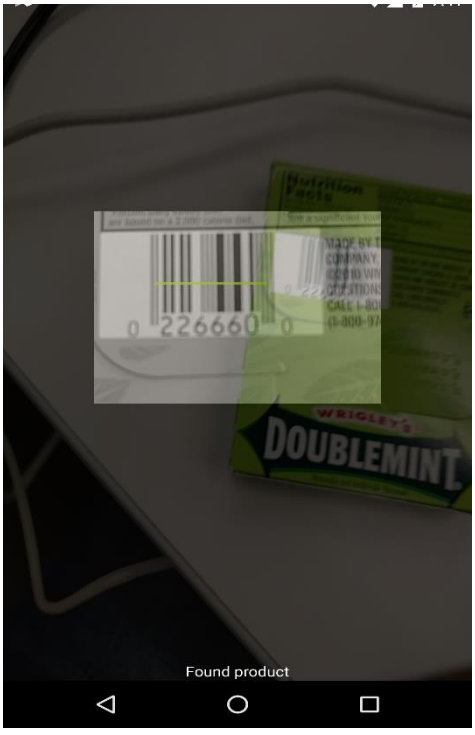
Home Page



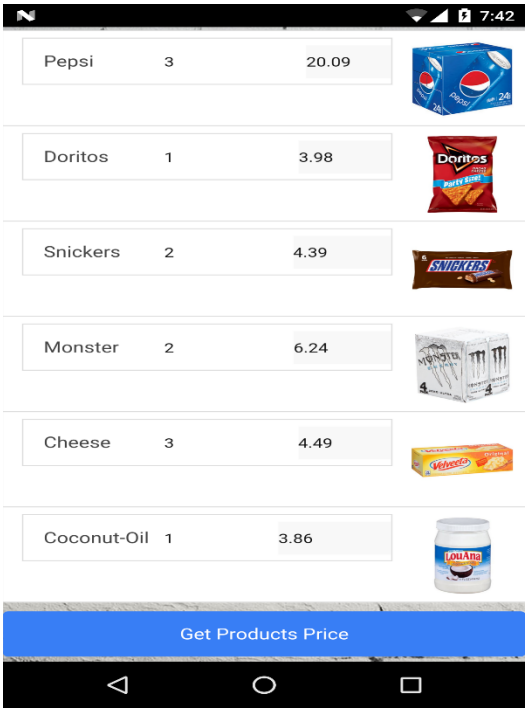
Groups

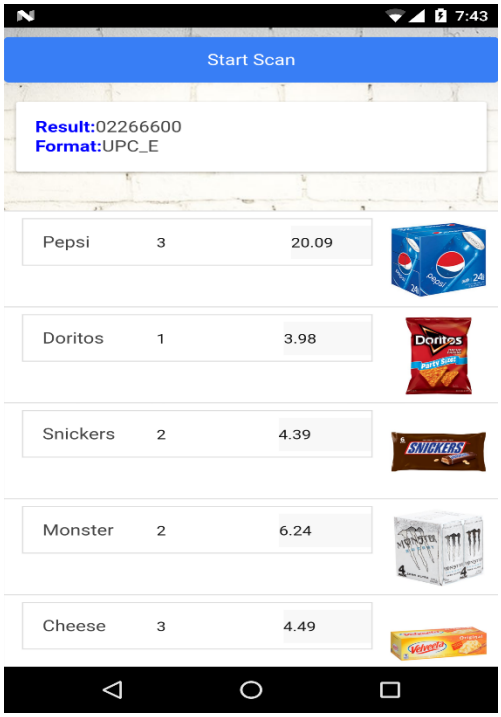


Barcode

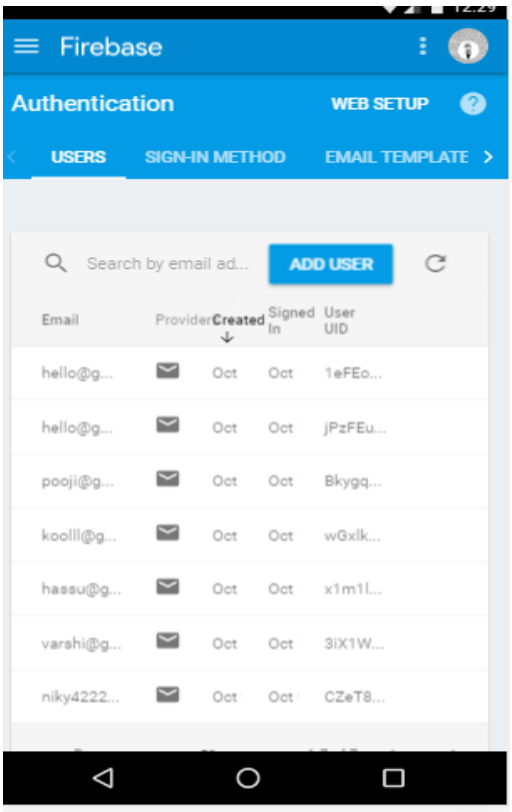


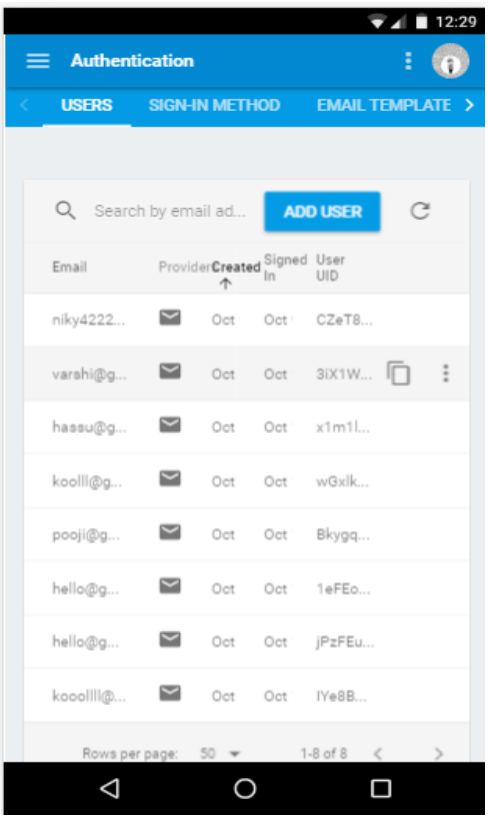
Grocery List





Firebase Credentials





Unit Testing

S.No	Title	Description	Outcome Expected	Result
1	User Verification Successful	The user should login with his/her password and username	Login should be successful	Pass
2	User Verification Failed	Login to the system with wrong password/username	Login should fail with an error “Invalid Username/Password”	Pass
3	User Login Successful	The user logins into the system with password/username	Login should be successful and the user should enter into the Home page	Pass
4	New User Registration	The user should enter the details into the page and should be accepted by the admin	User should go to Home page	Pass

Project Management

Implementation status report

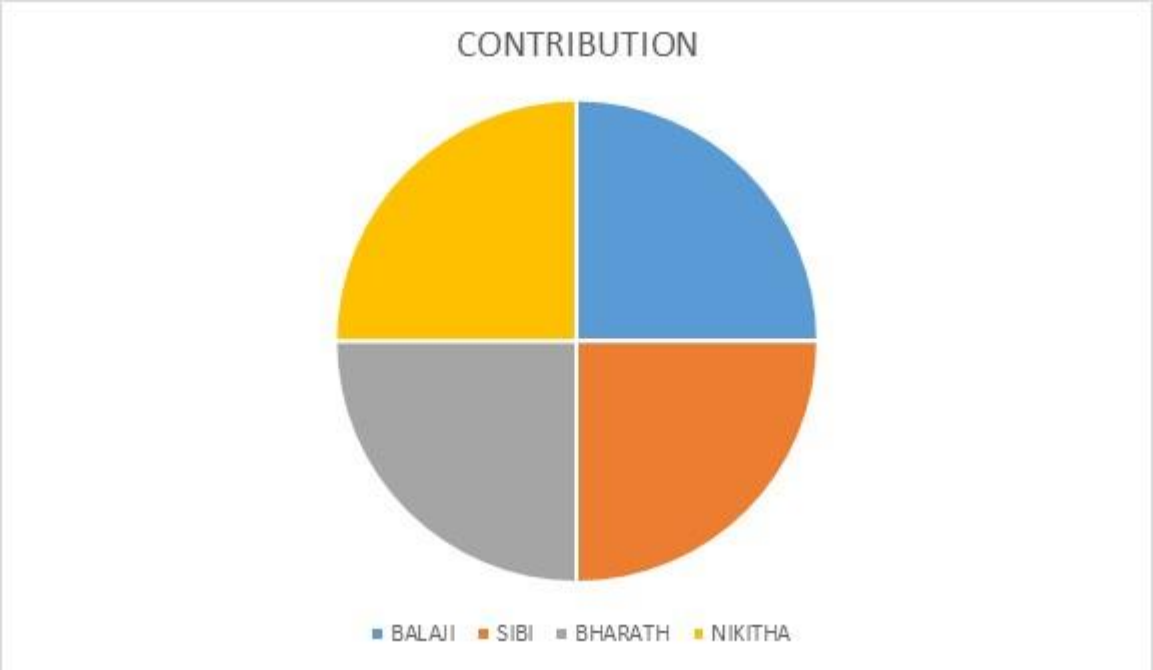
Technology Used: Ionic, HTML, CSS, JS, Walmart API and Angular JS.

Work Completed

- Login, Registration and home page updating
- Shopping list update with Product price obtained from Walmart API
- Barcode reader plugin to scan items
- Created group template

Contribution:

- Balaji Natarajan – 25%
- Bharath Kumar A – 25%
- Sibi Chakravarthy Ramesh – 25%
- Nikitha Kona – 25%



Bibliography

http://ionic.io/developers
http://creately.com/
https://mockingbot.com/
http://www.supermarketapi.com/Default.aspx