



Project Plan and First Increment Report
Fall 2016

TEAM - 6

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Table of Contents

| | |
|---------------------------------------|---|
| I. Introduction..... | 3 |
| II. Project Goals and Objectives..... | 3 |
| III. Project Plan..... | 4 |
| IV. First Increment Report..... | 8 |

I. Introduction

Share up is a smart phone application which saves the money you spend in buying groceries by finding the cheaper and apt deals, for the people who are buying together, as well as by managing money, people owe to each other in shared rooms. In today's world, most people, especially students end up sharing apartment/house with friends. Most of the groceries they tend to buy are more or less similar. So, if they buy those things in bulk they are likely to save a lot of money. They are also likely to face problems in managing household expenses due to lack of communication. 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.

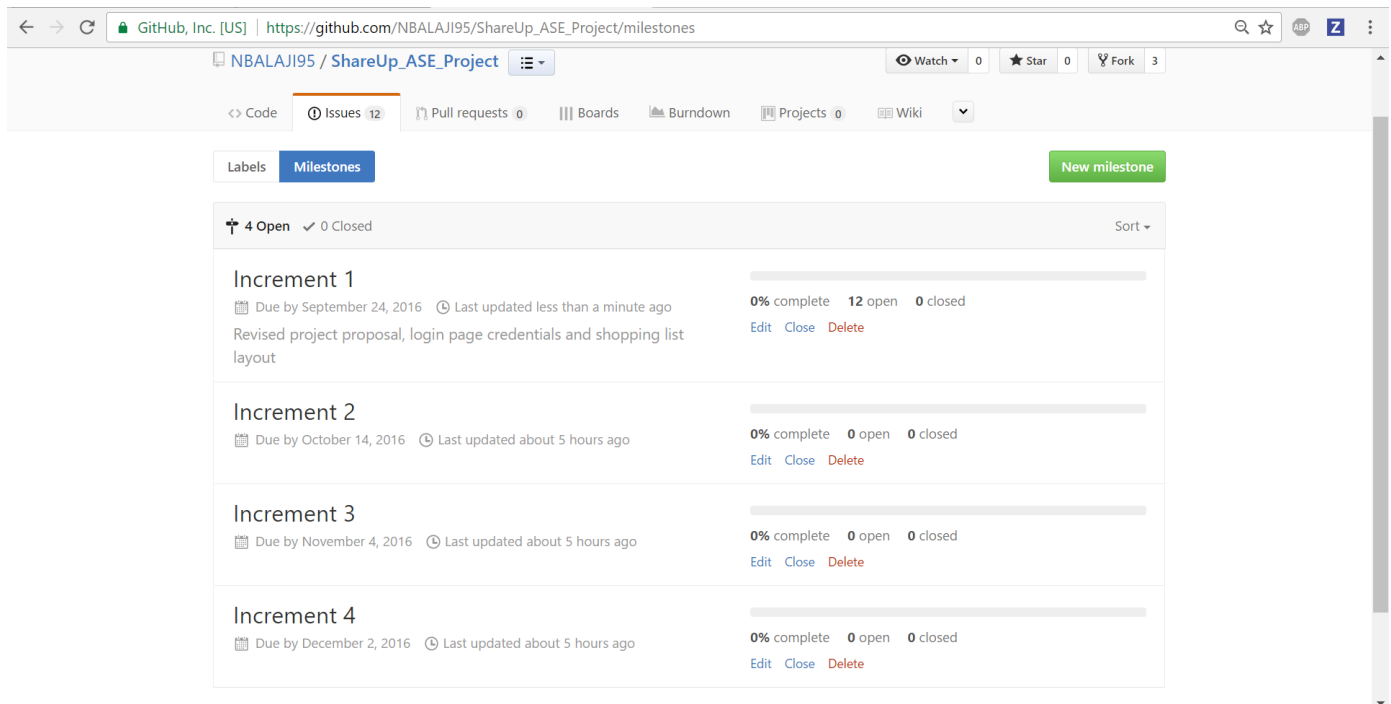
Objectives

- To reduce cost of buying items by smart spending feature.
- To track and manage shared expenses.
- 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).

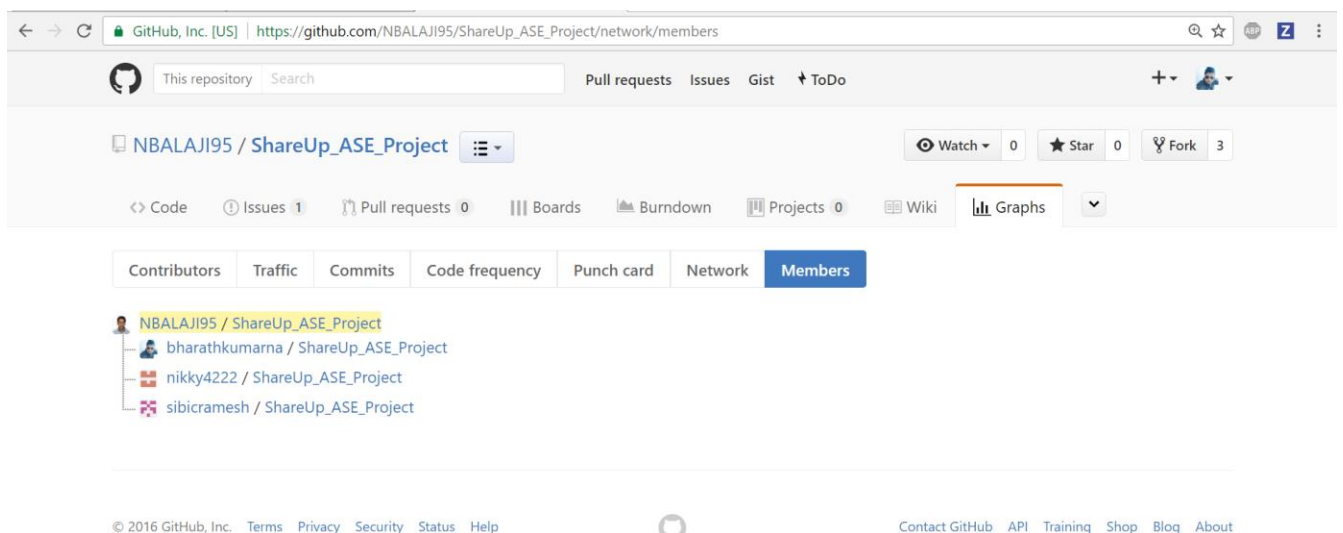
Project Timelines



The screenshot shows the GitHub interface for the repository **NBALAJI95 / ShareUp_ASE_Project**. The **Milestones** tab is selected, displaying a list of four milestones. Each milestone includes a title, a due date, the last update time, a progress bar, and counts for completion, open issues, and closed issues. A **New milestone** button is visible in the top right.

| Milestone | Due by | Last updated | 0% complete | Open | Closed |
|-------------|--------------------|------------------------|-------------|------|--------|
| Increment 1 | September 24, 2016 | less than a minute ago | 0% | 12 | 0 |
| Increment 2 | October 14, 2016 | about 5 hours ago | 0% | 0 | 0 |
| Increment 3 | November 4, 2016 | about 5 hours ago | 0% | 0 | 0 |
| Increment 4 | December 2, 2016 | about 5 hours ago | 0% | 0 | 0 |

Members



The screenshot shows the GitHub interface for the repository **NBALAJI95 / ShareUp_ASE_Project**. The **Members** tab is selected, displaying a list of contributors. The contributors are listed with their profile pictures, usernames, and repository names.

| Contributor | Repository |
|----------------|---------------------|
| NBALAJI95 | ShareUp_ASE_Project |
| bharathkumarna | ShareUp_ASE_Project |
| nikky4222 | ShareUp_ASE_Project |
| sibicramesh | ShareUp_ASE_Project |

Task Responsibility

12 Open 0 Closed Author Labels Milestones Assignee Sort

| Issue Title | Labels | Assignee | Status |
|----------------------------------|-------------|----------|------------|
| Prepare use case diagram | help wanted | | New Issues |
| Logo Design | help wanted | | New Issues |
| Deployment in mobile | help wanted | | New Issues |
| Unit Testing | help wanted | | New Issues |
| Shopping List Layout | enhancement | | New Issues |
| Draw architecture diagram | help wanted | | New Issues |
| Prepare Home Page | enhancement | | New Issues |
| Prepare signup page | enhancement | | New Issues |
| Draw class and sequence diagrams | help wanted | | New Issues |
| Prepare Login Web Page | enhancement | | New Issues |
| Prepare wireframes | help wanted | | New Issues |
| Prepare revised project proposal | enhancement | | New Issues |

Burndown Chart



Board

The screenshot shows a GitHub Kanban board for the repository `NBALAJI95/ShareUp_ASE_Project`. The board is organized into columns representing different stages of the workflow: **New Issues**, **Icebox**, **Backlog**, **In Progress**, **Review/QA**, **Done**, and **Closed**. Each column contains a list of issues represented as cards. The issues are categorized by labels such as `enhancement` and `help wanted`. The **In Progress** column shows three issues, while the **Done** and **Closed** columns show a larger number of completed tasks. The interface includes a search bar, filters, and a 'New Issue' button.

| Column | Issue ID | Title | Label | Status |
|-------------|-------------------------|----------------------------------|-------------|-------------|
| New Issues | ShareUp_ASE_Project #9 | Prepare signup page | Increment 1 | enhancement |
| | ShareUp_ASE_Project #12 | Shopping List Layout | Increment 1 | enhancement |
| | ShareUp_ASE_Project #13 | Unit Testing | Increment 1 | help wanted |
| In Progress | ShareUp_ASE_Project #5 | Prepare revised project proposal | Increment 1 | enhancement |
| | ShareUp_ASE_Project #7 | Prepare Login Web Page | Increment 1 | enhancement |
| Done | ShareUp_ASE_Project #14 | Deployment in mobile | Increment 1 | help wanted |
| | ShareUp_ASE_Project #8 | Draw class and sequence diagrams | Increment 1 | help wanted |
| Closed | ShareUp_ASE_Project #10 | Prepare Home Page | Increment 1 | enhancement |
| | ShareUp_ASE_Project #6 | Prepare wireframes | Increment 1 | enhancement |
| | ShareUp_ASE_Project #16 | Prepare use case diagram | Increment 1 | help wanted |
| | ShareUp_ASE_Project #11 | Draw architecture diagram | Increment 1 | help wanted |
| | ShareUp_ASE_Project #15 | Logo Design | Increment 1 | help wanted |

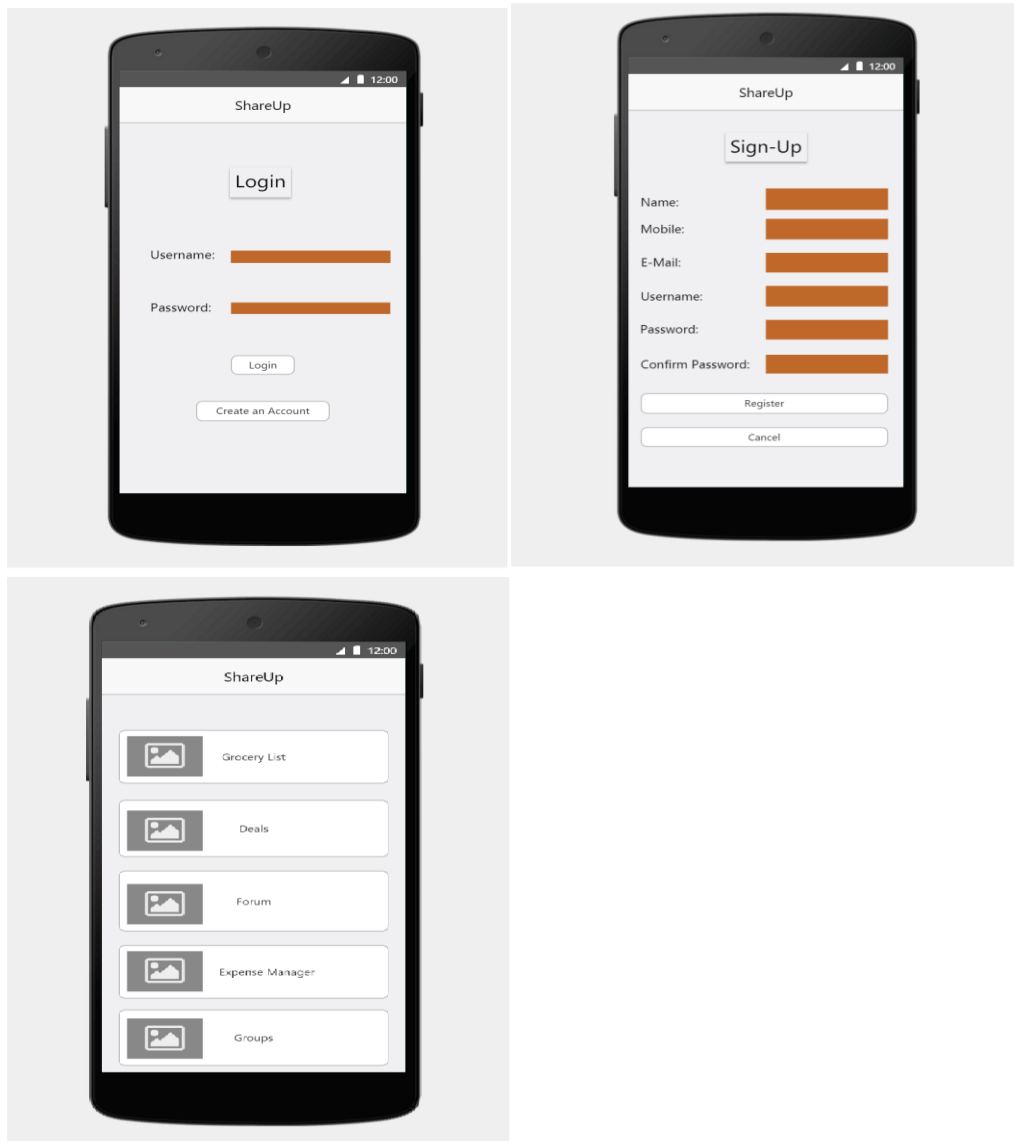
IV. First Increment Report

Existing Services/REST API

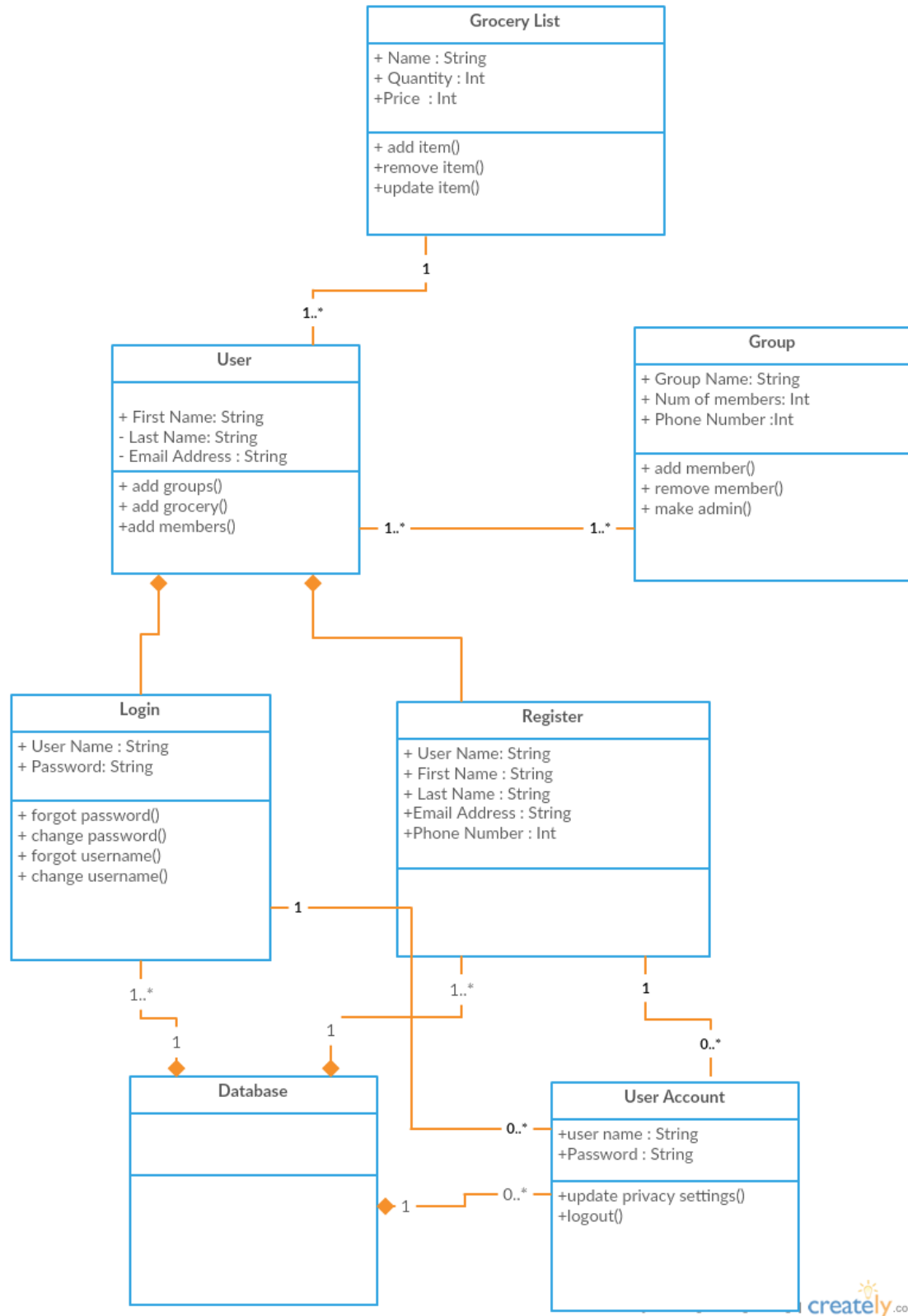
Walmart API, Supermarket API.

Detail Design of Features (using tools)

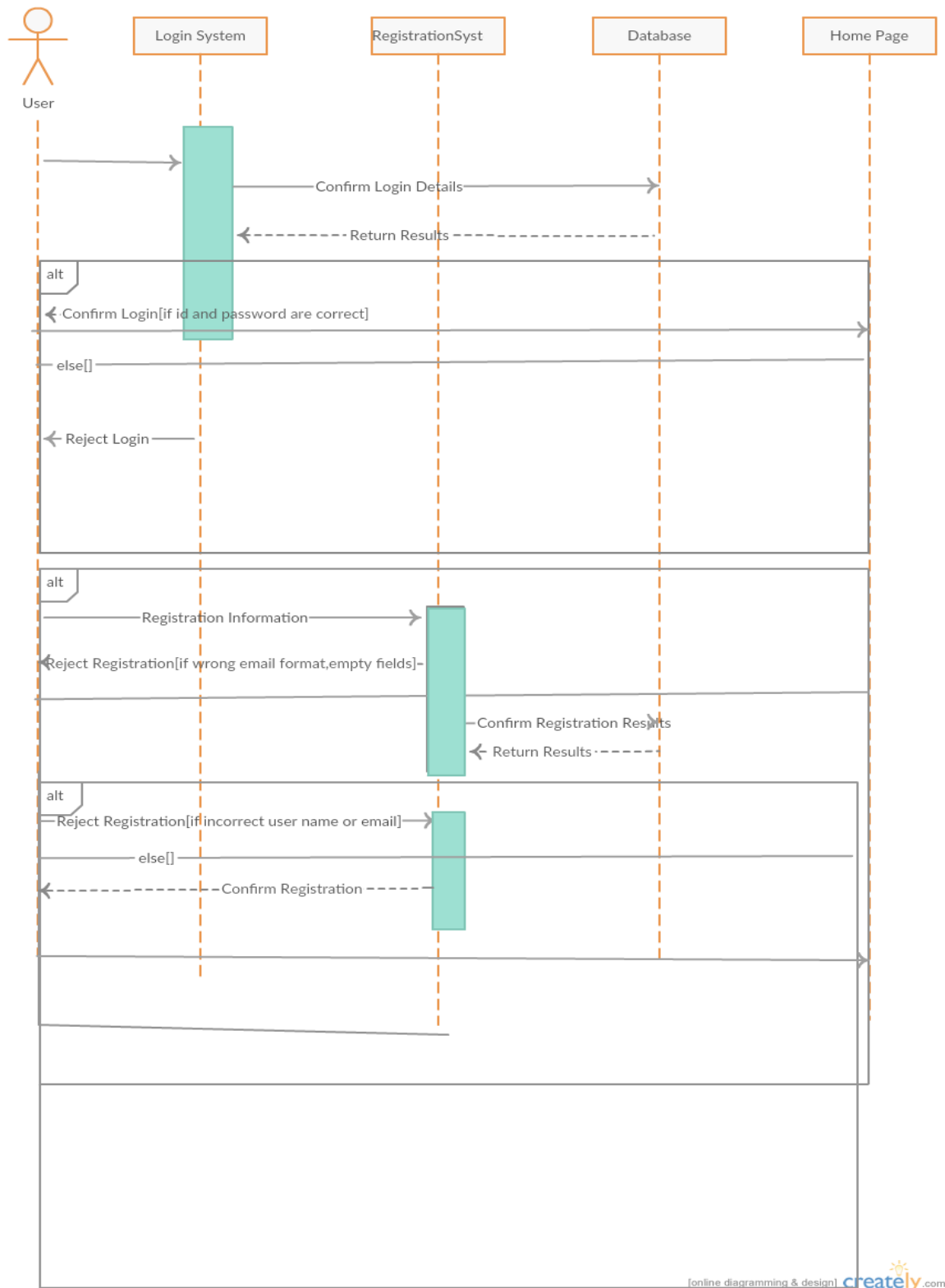
Wireframes



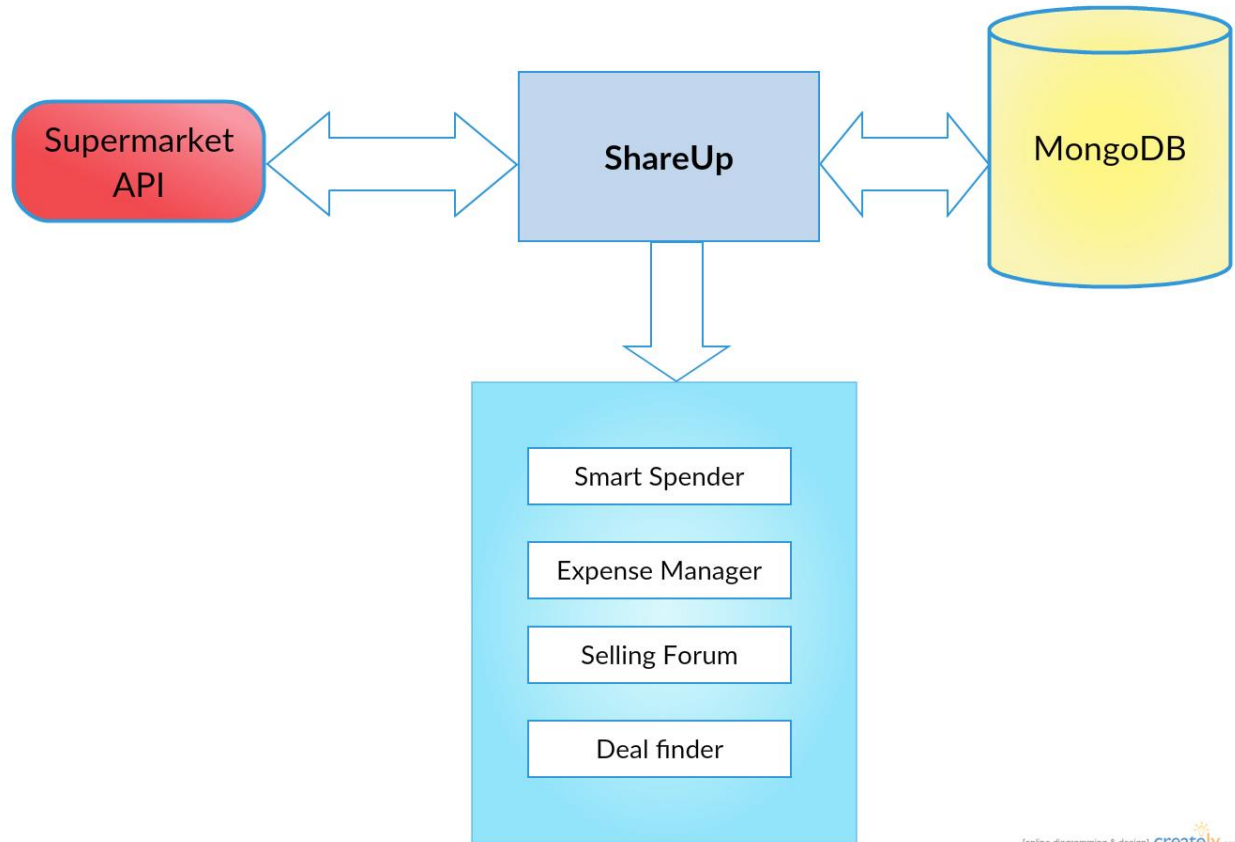
UML Class diagram



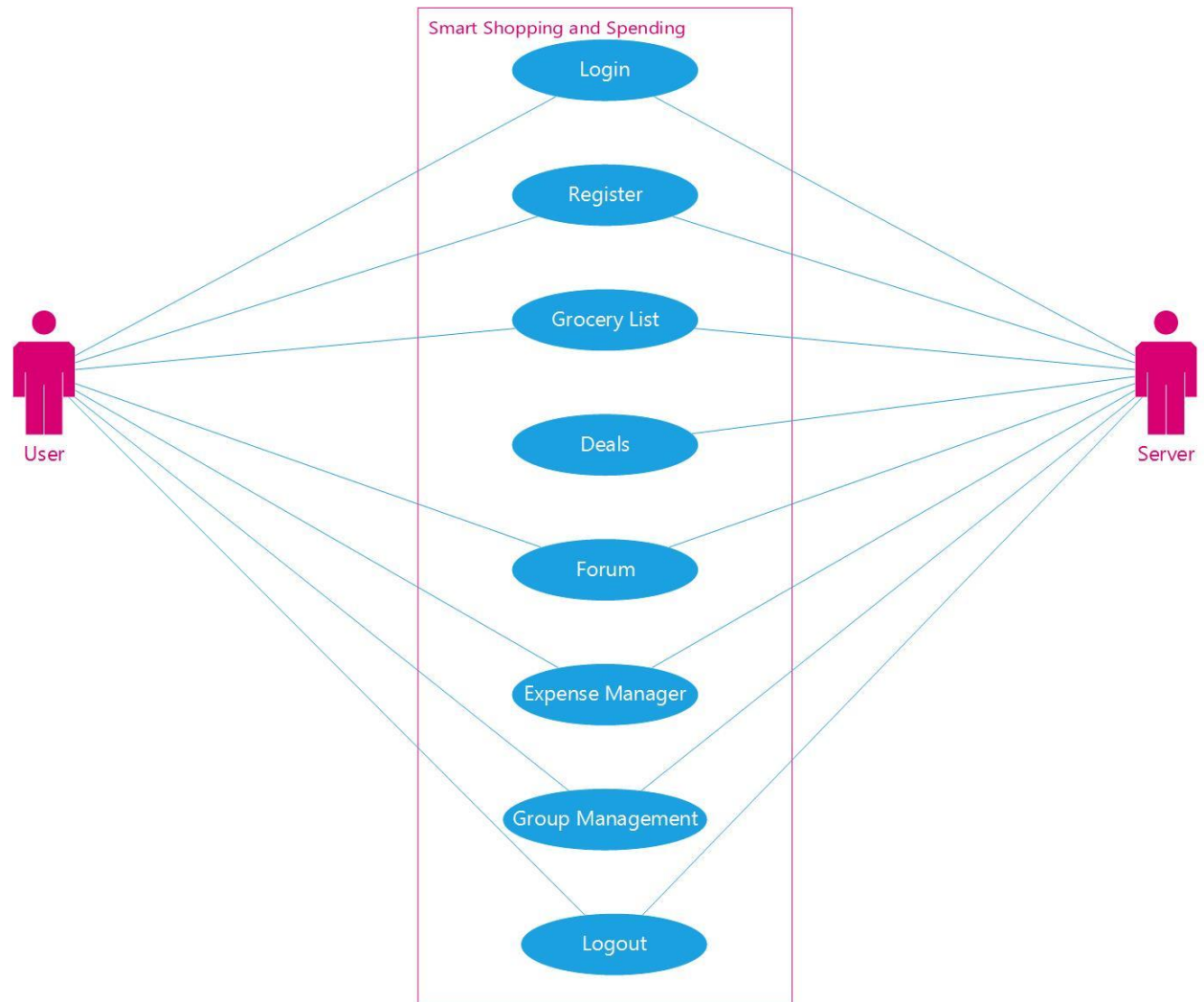
Sequence Diagram



Architecture Diagram



Use Case Diagram



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 logs 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 |

Implementation screenshot

Android:

Login Page:

Login

Username

Password

Log in

Or create an account

Register Page:

Signup

Name

Username

Password

Confirm Password

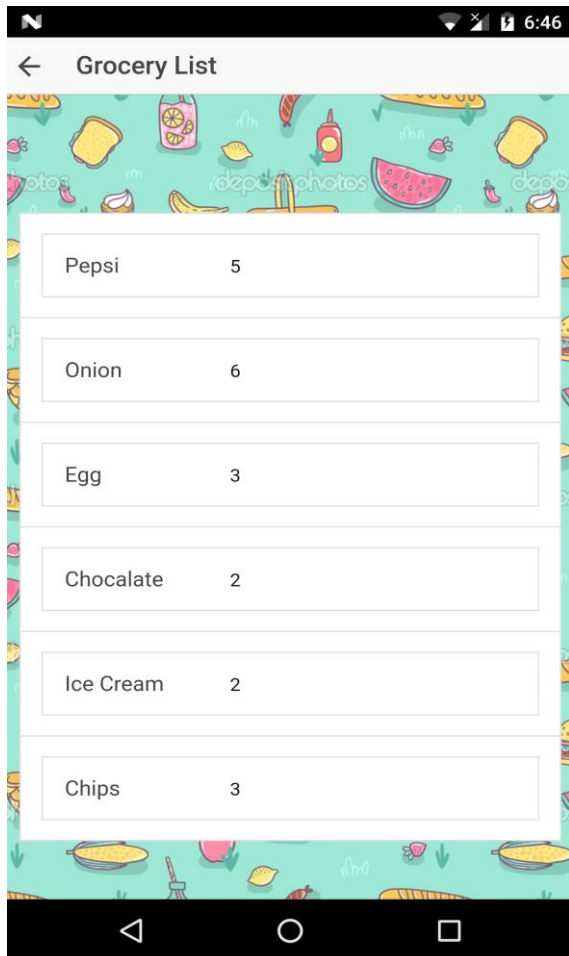
Email

Mobile

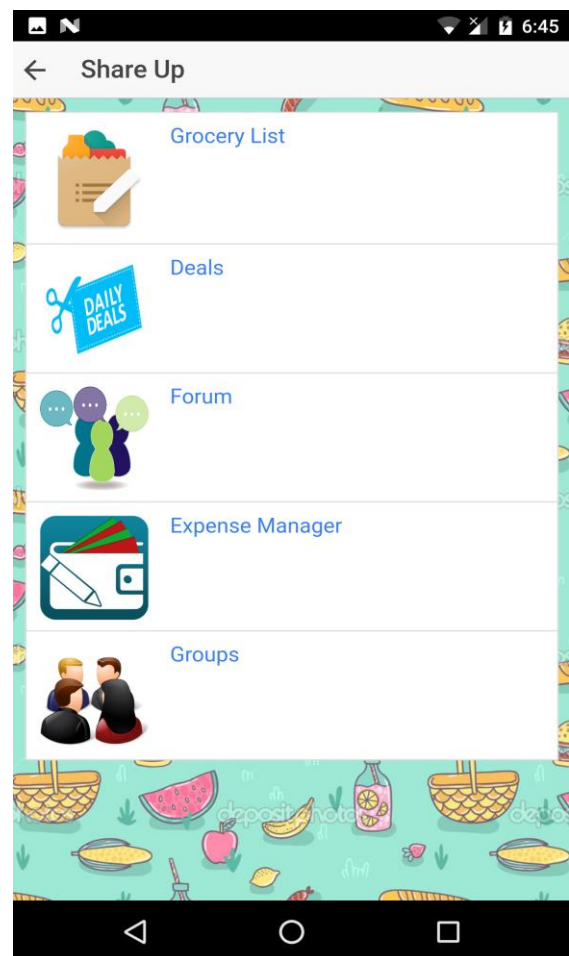
Register

Cancel

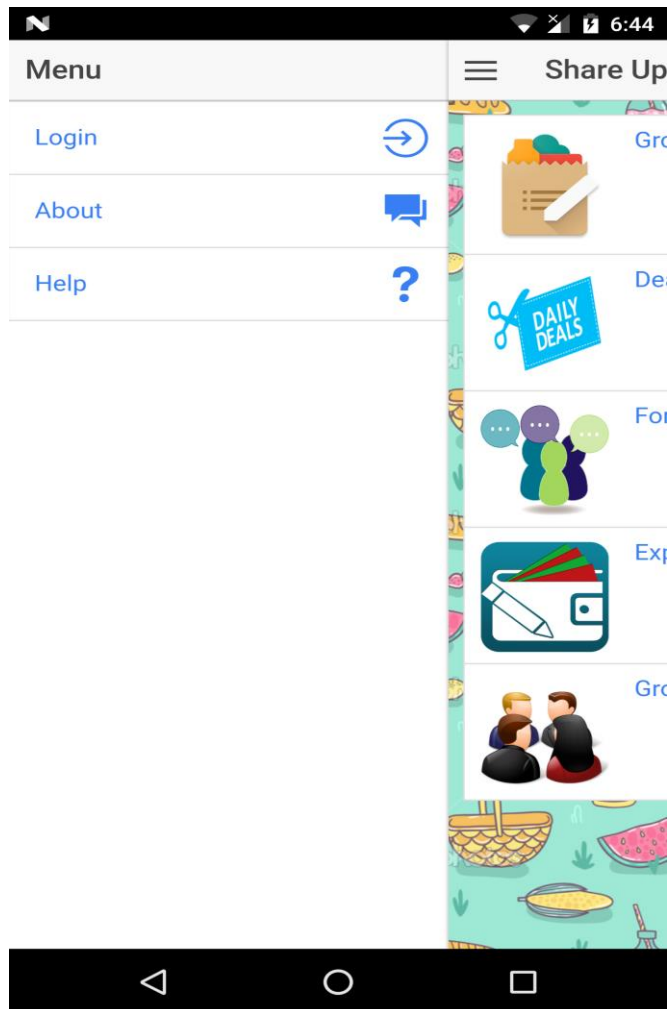
Grocery List:



Home Page:

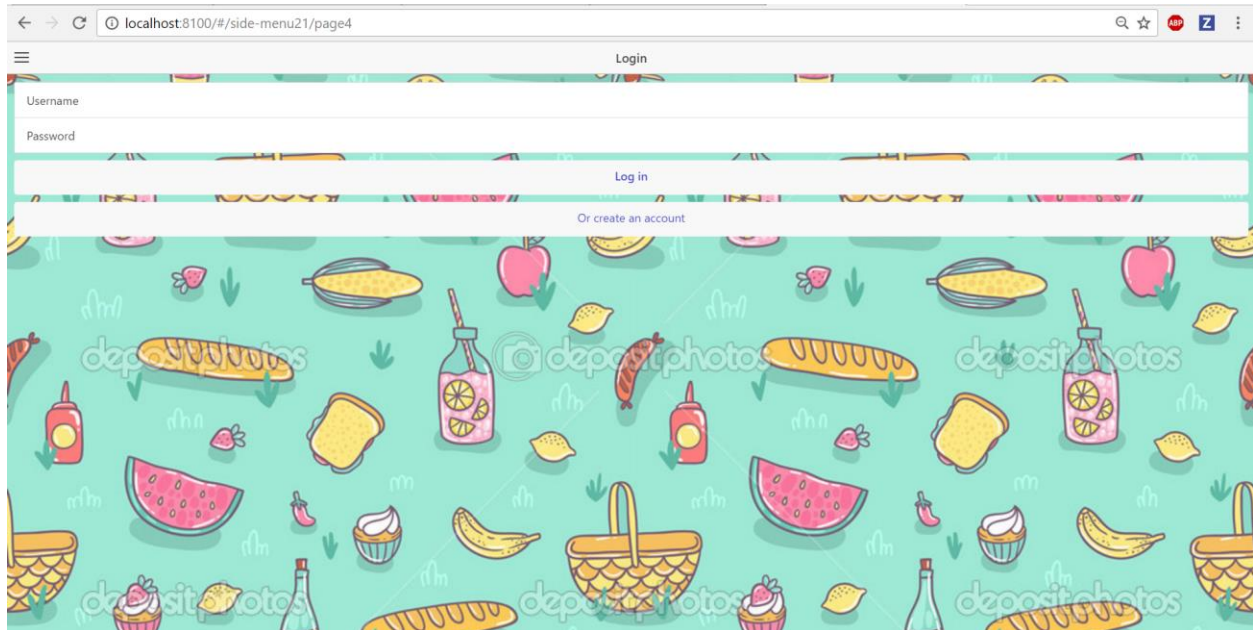


Menu Page:



Windows:

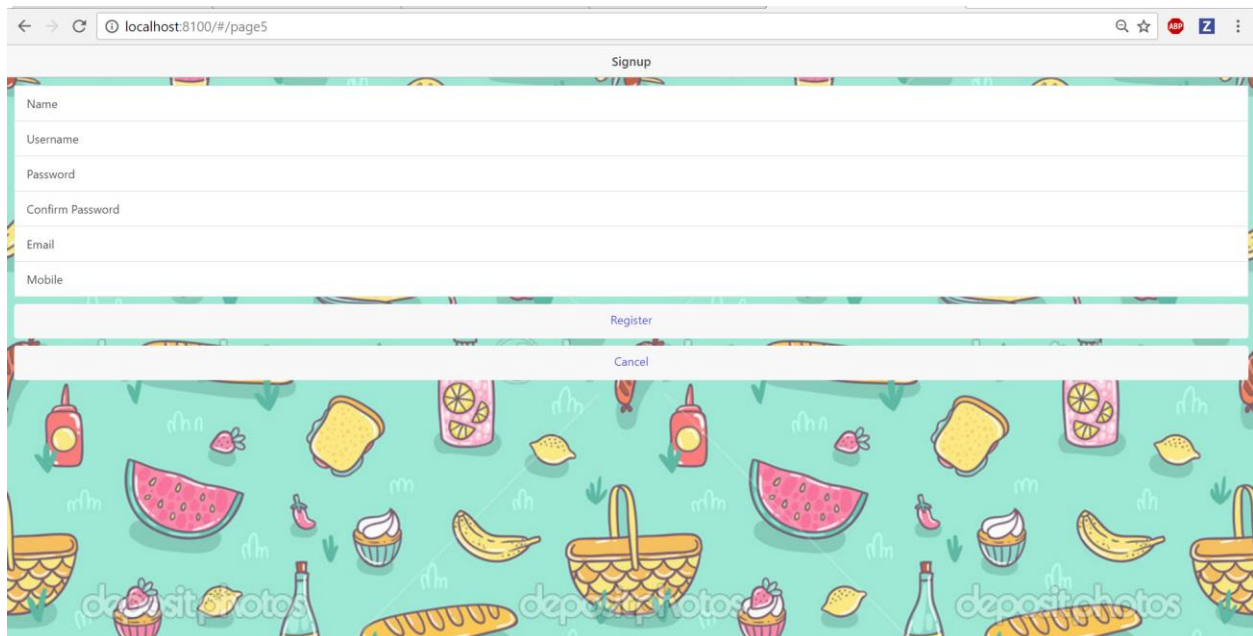
Login Page:



A screenshot of a web browser displaying the login page. The browser's address bar shows 'localhost:8100/#/side-menu21/page4'. The page has a light green background with a repeating pattern of various food items like bread, watermelon, and fruit. The login form is centered and contains the following elements:

- A hamburger menu icon in the top left corner.
- The title 'Login' centered at the top of the form.
- A 'Username' input field.
- A 'Password' input field.
- A 'Log in' button.
- A link 'Or create an account' below the login button.

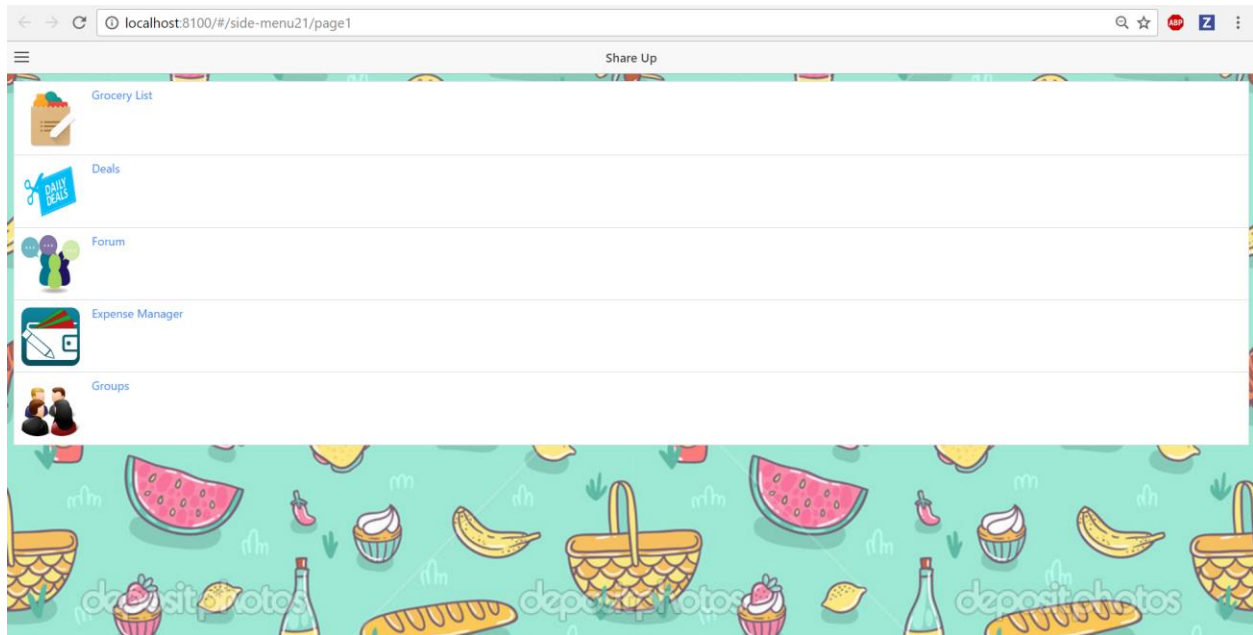
Register Page:



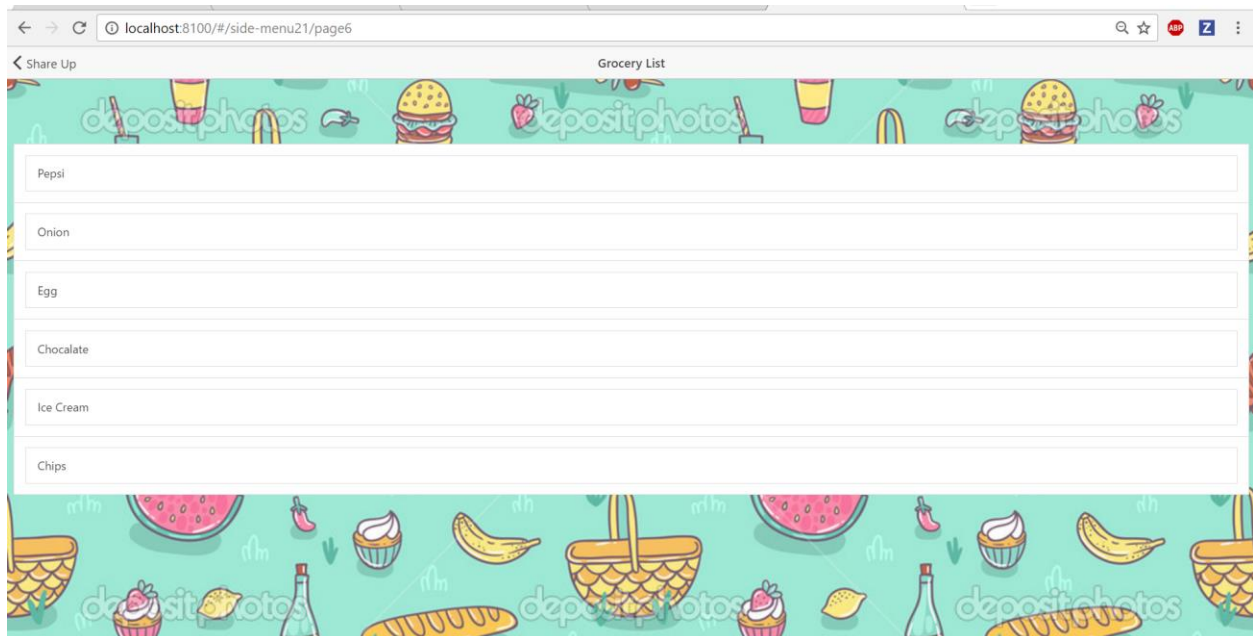
A screenshot of a web browser displaying the register page. The browser's address bar shows 'localhost:8100/#/page5'. The page has the same light green background with a repeating pattern of various food items. The register form is centered and contains the following elements:

- A hamburger menu icon in the top left corner.
- The title 'Signup' centered at the top of the form.
- A 'Name' input field.
- A 'Username' input field.
- A 'Password' input field.
- A 'Confirm Password' input field.
- An 'Email' input field.
- A 'Mobile' input field.
- A 'Register' button.
- A 'Cancel' button below the register button.

Home Page:



Grocery List



Project Management

Implementation status report

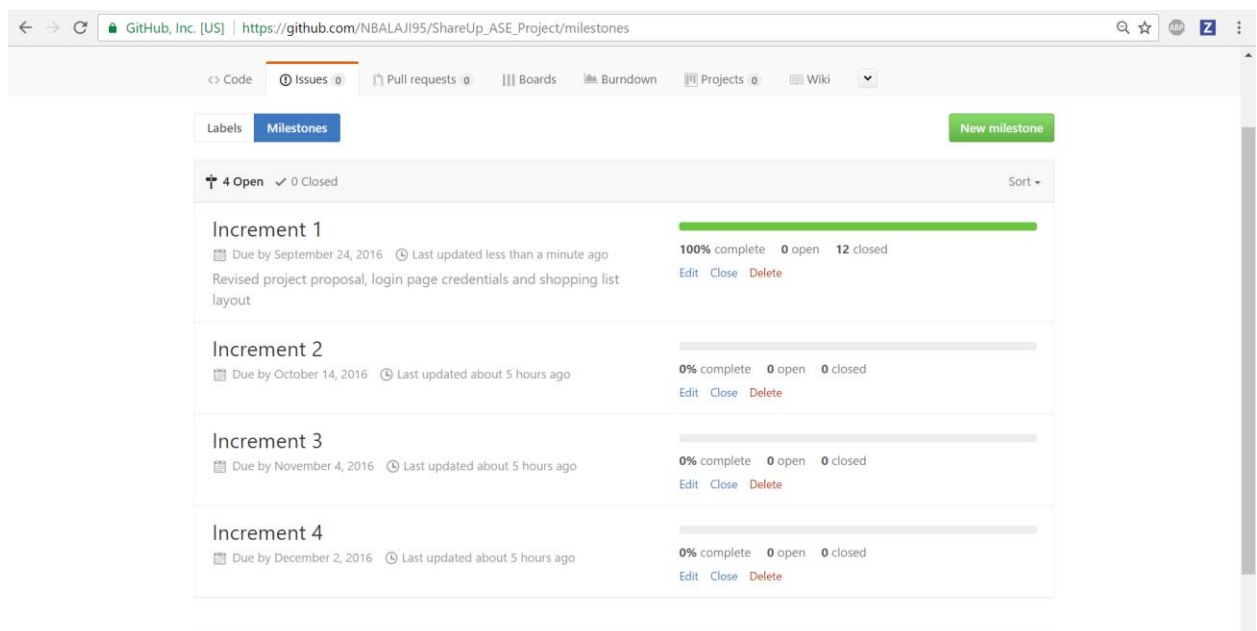
Technology Used: Ionic, HTML, CSS, JS and Angular JS.

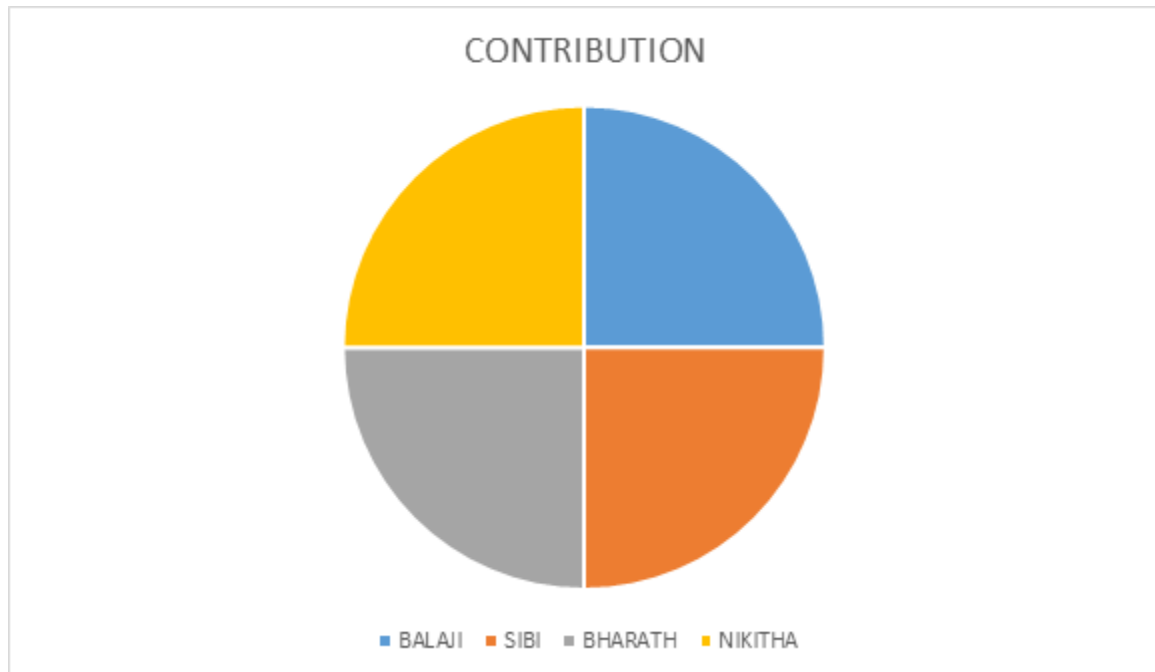
Work Completed

- Design and Architecture of the Application
- Login, Registration and home page using ionic framework
- Shopping list

Contribution:

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





Bibliography

<http://ionic.io/developers>

<http://creatly.com/>

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