

Screen Sketches

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Actors

1. Base User Use Cases

- As a new base user, I can create an account with a username and password
- As a returning base user, I can log into my existing account with my username and password
- As a base user, I can create a new grocery list
 - Give a name to list
 - Add items to list
 - View total price of items in list
- As a base user, I can view all of my lists
- As a base user, I can view the details of an existing list
- As a base user, I can edit an existing list
- As a base user, I can select a store to source prices and available products from
- As a base user, I can report an inaccurately priced item to selected store's administrator
- As a base user I can manage my account and notifications through the profile management/settings page
- As a base user I can follow other users and see their public lists on my landing page
- As a base user, I can "like" lists from other users
- As a base user, I can view my "liked lists" and their details

2. Store Administrator Use Cases

- As a returning store administrator, I can log into my existing account with my username and password
- As a store administrator, I can choose the display name for my store
- As a store administrator, I can add new products to availability list for my store
- As a store administrator, I can update prices of existing products
- As a store administrator, I can deal with base user reports

3. App Administrator Use Cases

- As an app administrator, I can log into the admin page
- As an app administrator, I can create store admin account
- As an app administrator, I can moderate store administrator behavior

Non-functional Requirements

- Base users would be able to report a difference in price in store and app
- Base users would be able to report item unavailability
- User data will be stored in a remote SQL database, and can only be accessed by the user credentials. This protects the integrity and privacy of user data.
- The stores admins being approved to list their items/prices should be an officially registered business entity
- The application is free to download
- Each user would be limited to 10 list creation under their profile
- Each user will be able to manage their profile as they wish (provided the functionality is available)

Tables and Relationships

- **Grocery Items:** This is a table that will hold all the grocery items listed in the application and will have associated ID range for each store.

itemName	itemID	price	storeName

- **itemName** - to identify the item by its name, will be useful in each distinctive list
 - **itemID** - to keep track of which store the item belongs to (each store will have a range of ID, ex: Store A [1000 - 1999])
 - **price** - price associated with each item
 - **storeName** - associates the item to the store it belongs to
- **Users:** This table maps each user with their associated attributes. The lists attributes will consist of an array of list objects that maps into the next table of previous lists which provides a template of pre-build lists for the users. These lists are previously created by each particular user and associated with their profile, which they can view and use as needed.

name	userName	userID	emailAdd	password	privilege	store	lists

- **name** - name of the users
 - **userName** - each user will be given or have the preference to choose a username for their profile
 - **userID** - each user is associated to an ID
 - **emailAdd** - email address associated with the user
 - **password** - password of the user
 - **privilege** - determines the user level in the application (Bare User, Store Admin User, App Admin)
 - **store** - associates with the preferred store for each user (dynamically changes based on the profile), for Store Admin User this attaches to the store the admin belongs to
 - **lists** - contains the arrays of lists which each users owns (previous lists)

- **Lists:** This table maps each previous lists which serves like a template for users to add/remove grocery items as preferred. The items attributes contains an array of JSON objects that holds the itemName and quantity stored during the creation of the list by the user. Users will be able to use the lists and get the approximate price for the cart or add/remove items for the existing list.

listName	listID	userName	items (Object)	likes

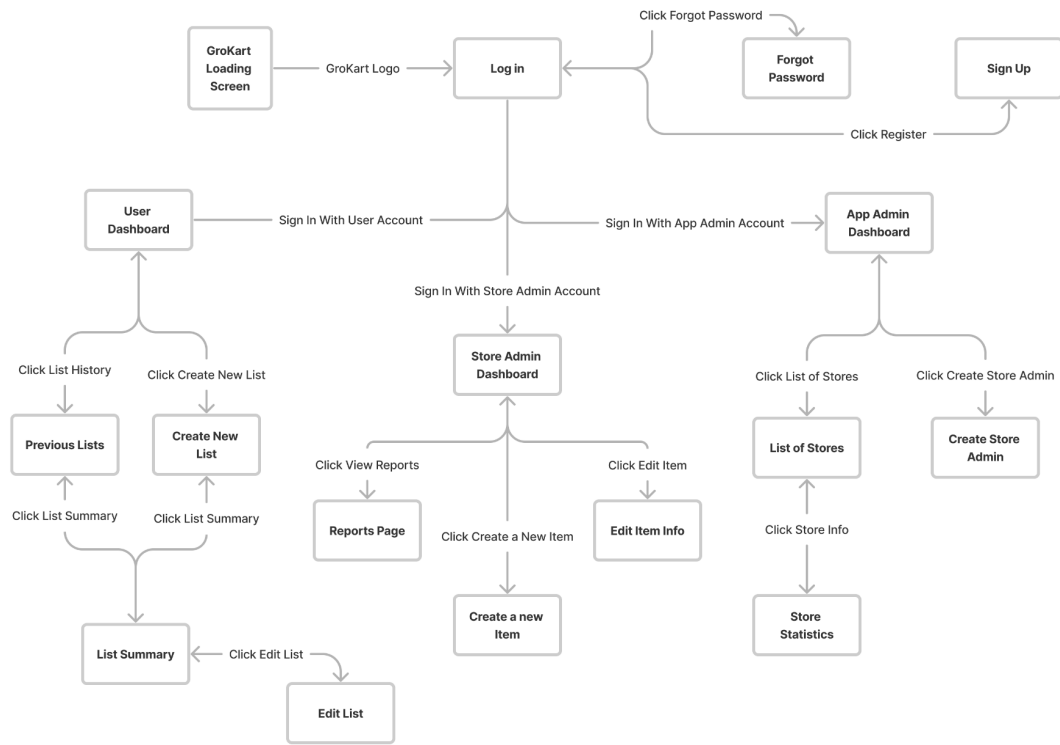
- **listName** - name of each list created by users (users have the option to custom name it)
- **listID** - each list is associated with an ID for ease of reference
- **userName** - maps the list to the user profile that creates and owns it
- **items** - contains a JSON object array that holds itemName and quantity
- **Likes** - number of “likes” a list has received from other users

- **Friendship**

username	id	following

- **Username** - each user will be given or have the preference to choose a username for their profile
- **Id** - user’s unique identifier
- **Following** - a list of users who have followed the user stored in “username”

Screen Flow Diagram



Home Page (base user) - Charles Dudley

This page serves as the “home base” for base users. From here, a base user will be able to navigate to any of their accessible pages.

- The gear icon on the top right (1) will serve as a button which takes the user to the “Settings” page
- The user will be welcomed to the home page with their username (2).
- The “Create New Lists” button (3) will take the user to the “Create New Lists Page”, where a user can start a new personalized grocery list
- The “View List History” button (4) will take the user to the “List History” page, where a user can view their previously created grocery lists



List History (base user) - Charles Dudley

This page displays all of a user's existing lists. From this page, a user can choose to view, edit, or delete lists.

- The back arrow in the top left (1) will return the user to the "Home Page".
- Each existing list will be represented by a small window including the list name, and a collection of buttons (2). This window will not appear for a deleted list. Each user is limited to a maximum of 10 lists.
- A user can view the current market prices of an existing list by tapping the "select" button (3).
- A user can edit an existing list by tapping the "edit" button (4). Editing an existing list does not overwrite the existing list. Instead, it essentially creates a new list from a template, allowing the user to add/remove items and see an expected total price.
- A user can delete an existing list by tapping the "remove" button (5).



Create Item (store admin) - Charles Dudley

This page allows a store admin user to specify information for a new listed item.

- The back arrow in the top left (1) will return the user to the “Home Page”.
- The “Upload Image” button (2) allows the user to upload a new image to represent their product.
- The edit button next to the product name (3) allows the user to add a name to represent their product.
- The edit button next to the product price (4) allows the user to add a current price of their product.
- The “Create Item” button (5) allows the user to submit their product information to the application and officially create their item.
- The “Cancel” button (6) allows the user to abort the item creation process.

The screenshot shows a mobile application interface for creating a new item. At the top, there is a title bar labeled 'Create Item'. Below the title bar, on the left, is a back arrow icon labeled with a red '1'. To the right of the arrow is the title 'Create Item'. In the center, there is a large grey square button with an upward arrow icon and the text 'Upload Image', labeled with a red '2'. Below this button are two input fields. The first is labeled 'Enter Item Name' with a red '3' and an edit icon (a pencil). The second is labeled 'Enter Item Price' with a red '4' and an edit icon. At the bottom of the screen, there are two large buttons: a green 'Create Item' button labeled with a red '5' and a red 'Cancel' button labeled with a red '6'.

Edit Item (store admin) - Charles Dudley


This page allows a store admin user to edit information for one of their listed items. In the event that the price, availability, or any product information changes, a store admin user will use this page to update the database.


- The back arrow in the top left (1) will return the user to the “Home Page”.
- The edit button next to the product image (2) allows the user to upload a new image to represent their product.
- The edit button next to the product name (3) allows the user to update the name to represent their product.
- The edit button next to the product price (4) allows the user to update the current price of their product.
- The “Confirm Changes” button (5) allows the user to submit their product information updates to the application.
- The “Delete Item” button (6) allows the user to remove their product from their list of products.

Edit Item


←1

Edit Item




2

Cavendish Banana

3

\$0.60/lb

4

5

Confirm Changes

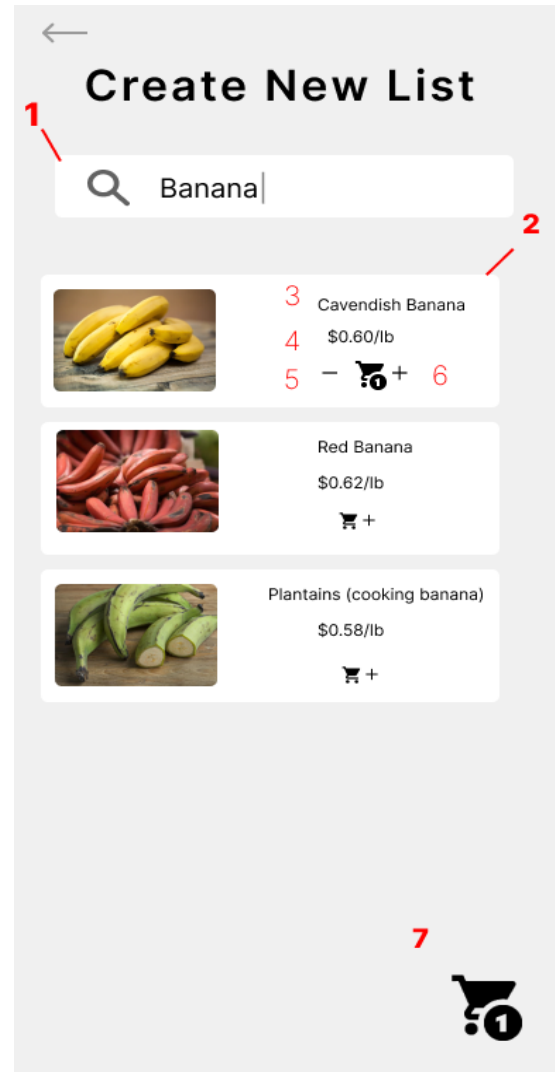
6

Delete Item

Search Items Page (base user) - Joao Victor Lira

This page is where the base user creates a new list by searching his desired items and adding them to the list accordingly

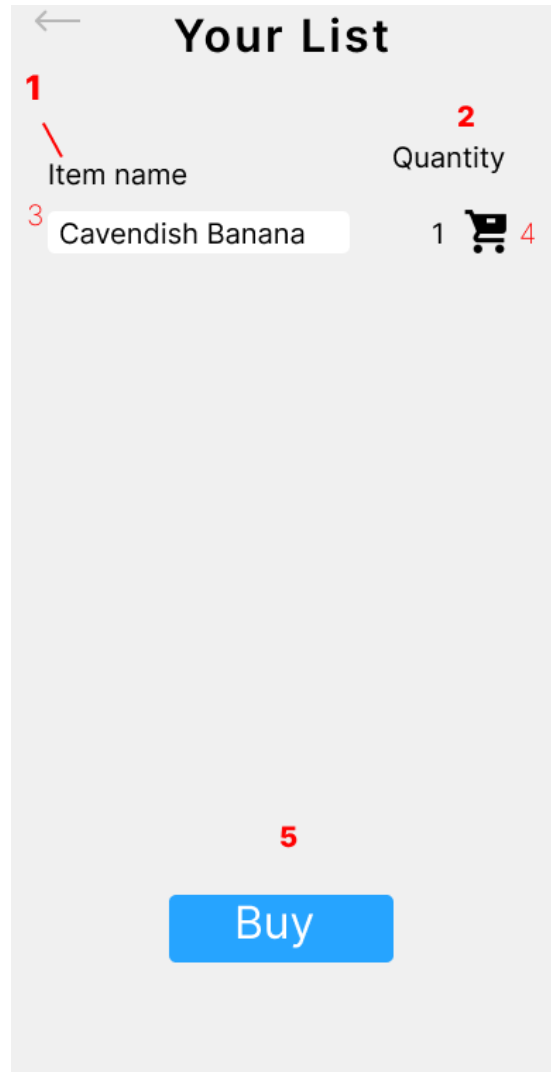
- 1) search bar where the user will type his items of choice
- 2) this is a collection where all the possible items will the user has typed will be displayed
- inside it, each item has a title (3), a price per unit (4), a button to remove or add the item (5) and (6) respectively
- Lastly, (7) is a button where a little number will display the total amount of groceries in his cart currently, and when the user presses it he will be taken to the list details page



List Summary Page - Joao Victor Lira

This page is where the base user can check his list details and buy it.

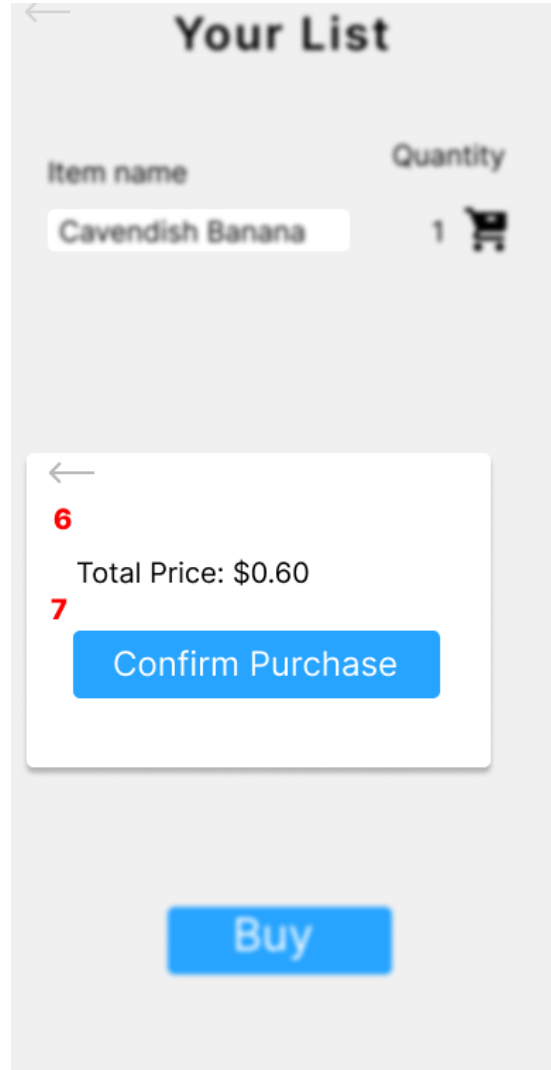
- 1) is the item names column
- 2) is the quantity the user added of each item
- 4) is a remove icon button where the user can remove 1 unit of an item from his list
- 5) is a button where the user can click to buy the items on his list which opens a popup



List Summary (with PRICE POPUP) - Joao Victor Lira

After the user has clicked the “buy” button a popup will show where the can review the total price of his list and confirm his purchase

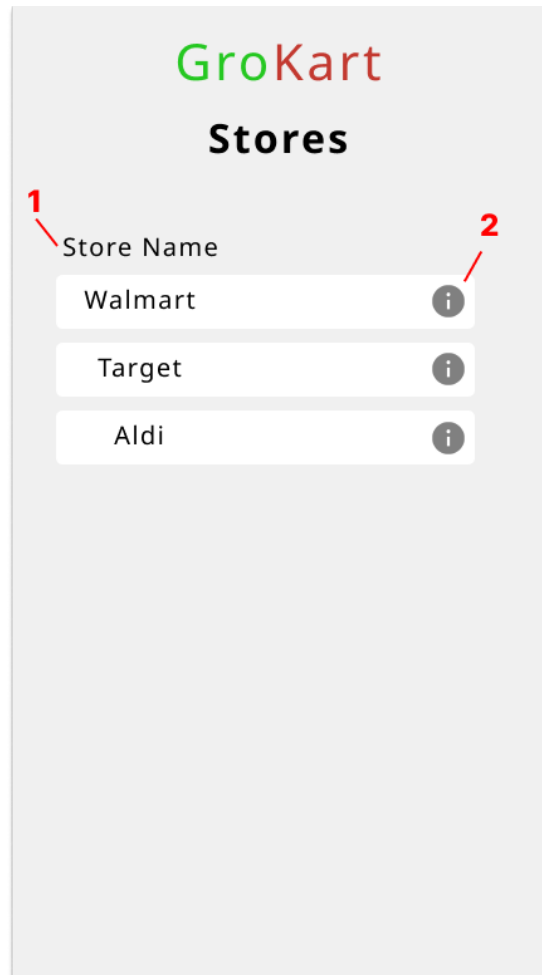
- **6)** is the total price of his list: which is sum of the prices of all his products on his list
- **7)** is the button which the user clicks to confirm the purchase of all the items on his list



View Stores Page (App Admin) - Joao Victor Lira

This is the page where the App Admin can view all the stores listed and available in his app

- 1) is the column where the store names will be stored
- 2) is an icon button where the App Admin can check for detailed information on the store of the same row



Create New Store Admin Page (App Admin) - Joao Victor Lira

This page is where the App Admin can create a Store Admin User for a store owner who wants to operate in the app

- **1)** is the store admin`s username
- **2)** is his password (given by the store admin)
- **3)** is the store admin`s actual store name
- Lastly **4)** is the button for creating the new store admin user with the inputs from **1)**, **2)** and **3)**

GroKart

Add Store Admin

1 Username

2 Password

3 Store Name

4

Create Store Admin

App Intro Page (all types of users) - Baganesra Bhaskaran

This page is application introduction page. This page is what displays and fades off when any type of user opens the application.

- It was just a creative idea on how our application should look.

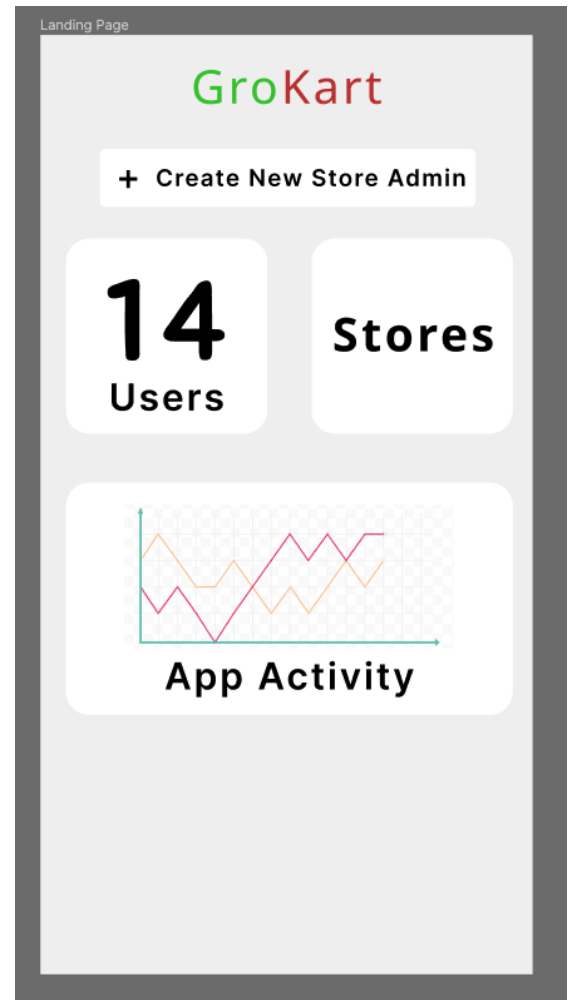


Landing Page (app admin) - Baganesra Bhaskaran

This page serves as the landing page for the application admin. It displays information such as:

- Total number of users of the application
- A shortcut to view the list of stores in the application
- App Activity Tracker - monitor the app usage by users

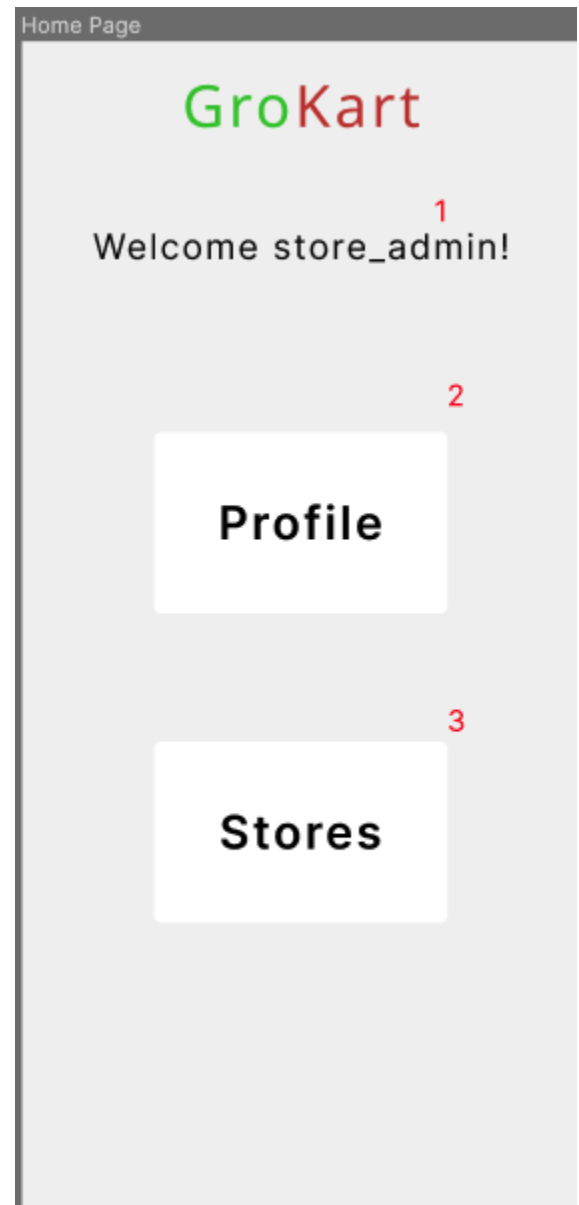
The application admin would be able to create a new store admin by clicking on the “Create New Store Admin” icon. This icon would lead to the creation of Store Admin page.



Home Page (Store admin) - Baganesra Bhaskaran

This page become a landing page for the store admin users where they will be able to navigate their own profile or the store items that they manage.

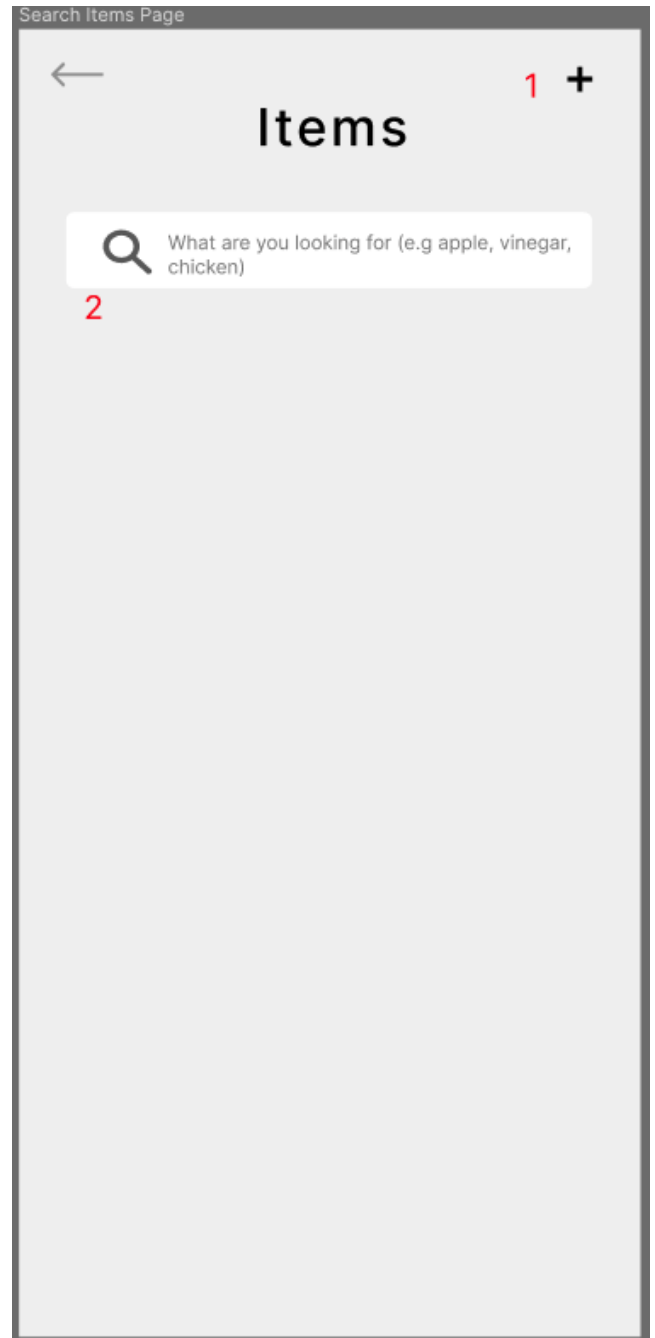
- Welcome bar to identify which type of user you are .(1) The “store_admin” phrase will be replaced by the username of the user.
- By clicking the “Profile” icon, the user would be able to lead to his/her profile page to manage their preferences. (2)
- The “Stores” icon, upon clicking would lead to the Items page, where the user would be able to add new items under his store or edit the existing item specifications (description, price, etc.) (3)



Search Item Page (Store admin) - Baganesra Bhaskaran

This page is the item searching page for the store admin user. This would allow them to search for a respective item and change its specification as needed.

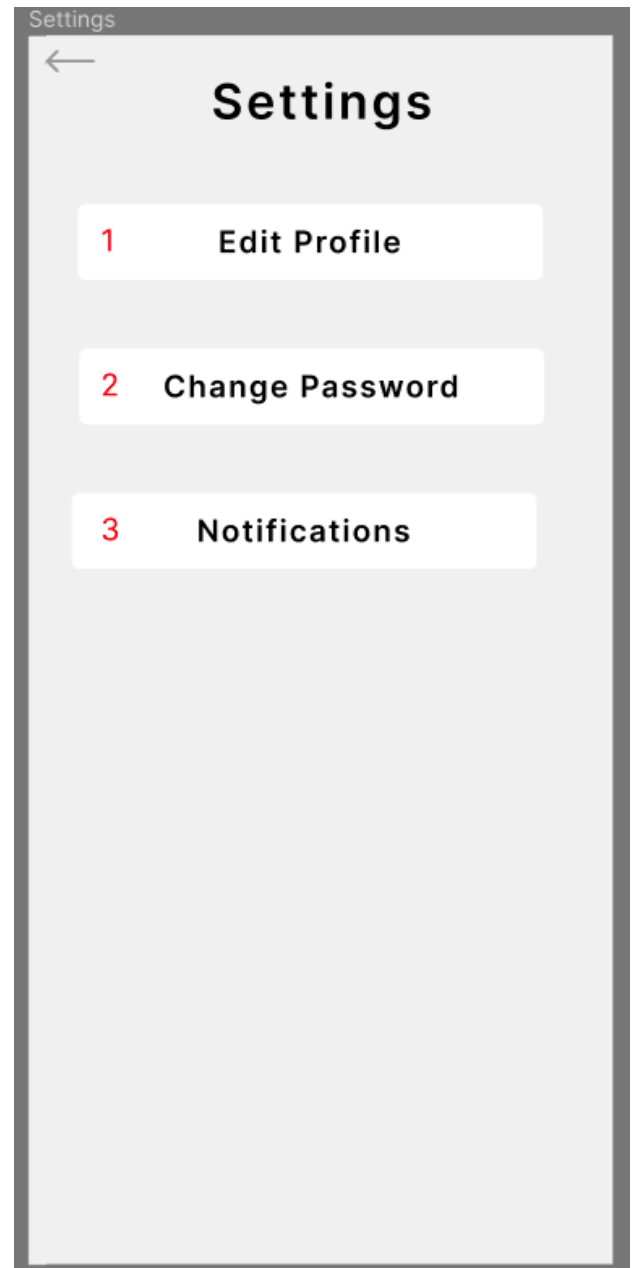
- The “+” icon, on click would lead to a page where the store admin would be able to add a new item to be displayed under his/her respective store (1)
- The search bar allows the store admin to search up for a specific item (2)



Settings - Maddelynnne McGovern

This page is the settings page for the base user. Here, the user can navigate to different pages depending on which settings or profile information they would like to change.

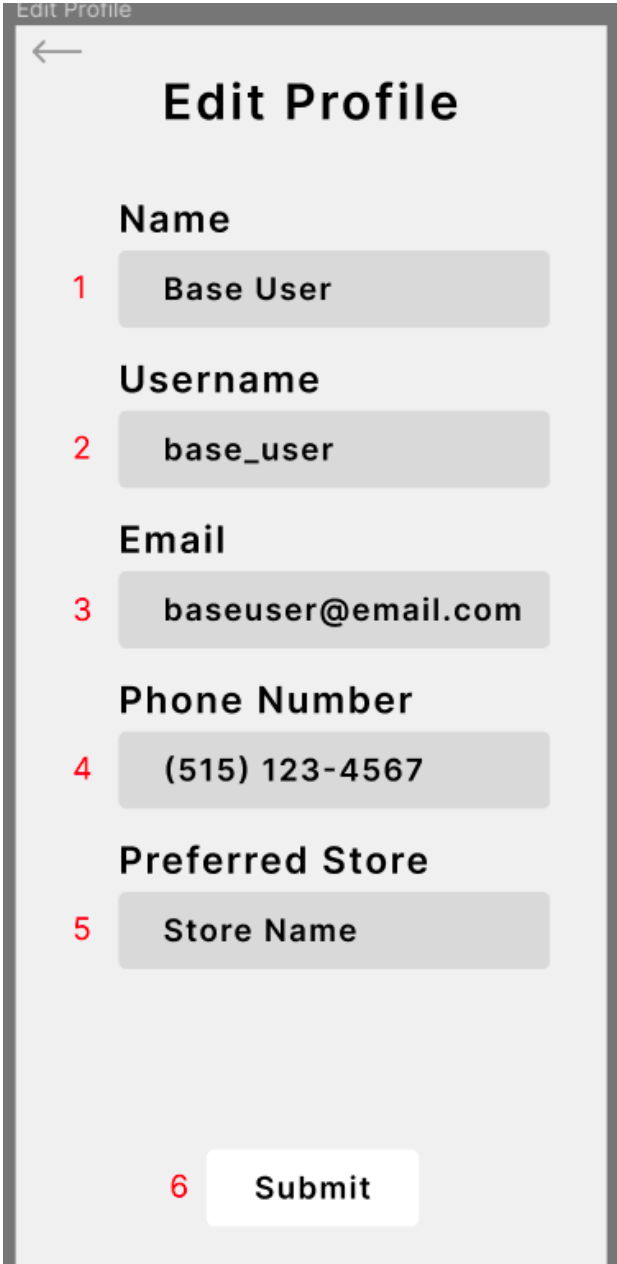
- The “Edit Profile” button (1) will navigate to the Edit Profile page, where the user can edit information such as their name and preferred store.
- The “Change Password” button (2) will navigate to the Change Password page.
- The “Notifications” Button (3) will navigate to the Notifications page, where the user can change their notification preferences.



Edit Profile - Maddelynn McGovern

This page is the edit profile page for the base user. Here, the user can change different aspects of their profile, such as their name or preferred store.

- The “Name” text field (1) will allow the user to change their name on the app.
- The “Username” text field (2) will allow the user to change their username for logging in.
- The “Email” text field (3) will allow the user to change their email associated with their account for notifications and password retrieval.
- The “Phone Number” text field (4) will allow the user to change their phone number associated with their account for notifications and password retrieval.
- The “Preferred Store” text field (5) will allow the user to change their preferred store, which is the store that they will pick items from.
- The “Submit” button (6) will submit any changes made to the above text fields.



Edit Profile

Name

1 Base User

Username

2 base_user

Email

3 baseuser@email.com

Phone Number

4 (515) 123-4567

Preferred Store

5 Store Name

6 Submit

Change Password - Maddelynn McGovern

This page is the edit profile page for the base user. Here, the user can change different aspects of their profile, such as their name or preferred store.

- The “Current Password” text field (1) requires the user to type in their current password to ensure security.
- The “New Password” text field (2) will allow the user to create the password they would like to use from now on.
- The “Confirm New Password” text field (3) requires the user to retype their new password to ensure they typed it correctly.
- The “Submit” button (4) will ensure that the above text fields are correct, and if so, submit any changes made.

Change Password

←

Change Password

Current Password

1 *****

New Password

2 *****

Confirm New Password

3 *****

4 **Change Password**