

fridgefinds

Diego Ozuna (PM)

Katlyn Koski (APM)

Abhinav Kasoji (Software Engineer)

Dakoda Stemen (Software Engineer)

Hector Jimenez-Magadan (Software Engineer)

Kimberly Sandoval (Software Engineer)

Marlon Jimenez (Software Engineer)

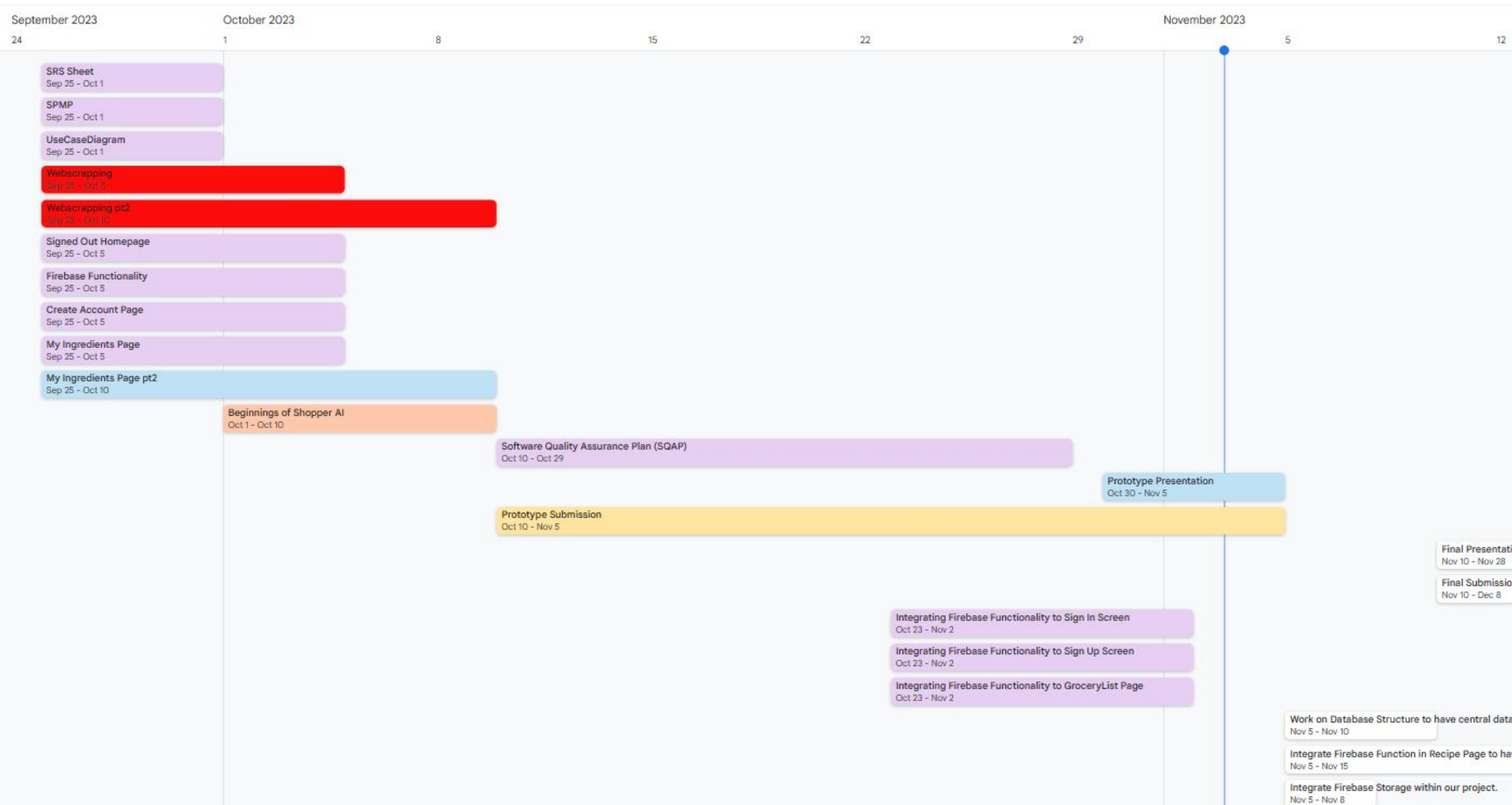
Varon Nguyen (Software Engineer)

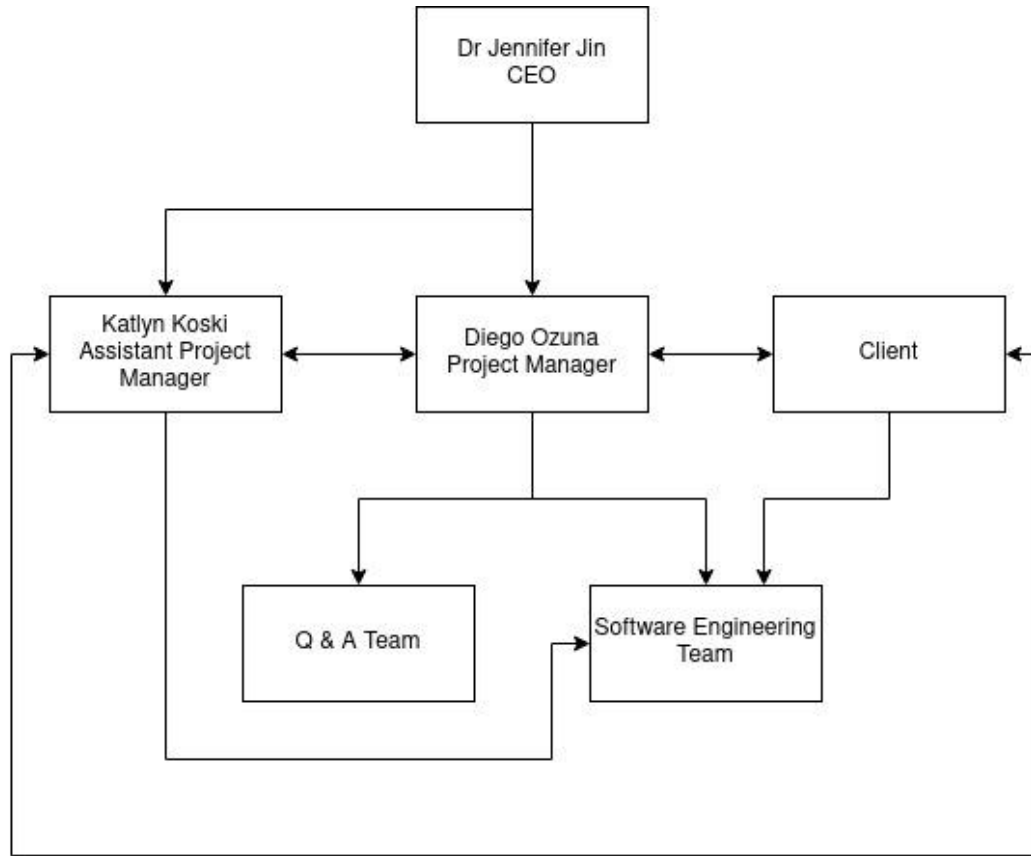




Goal

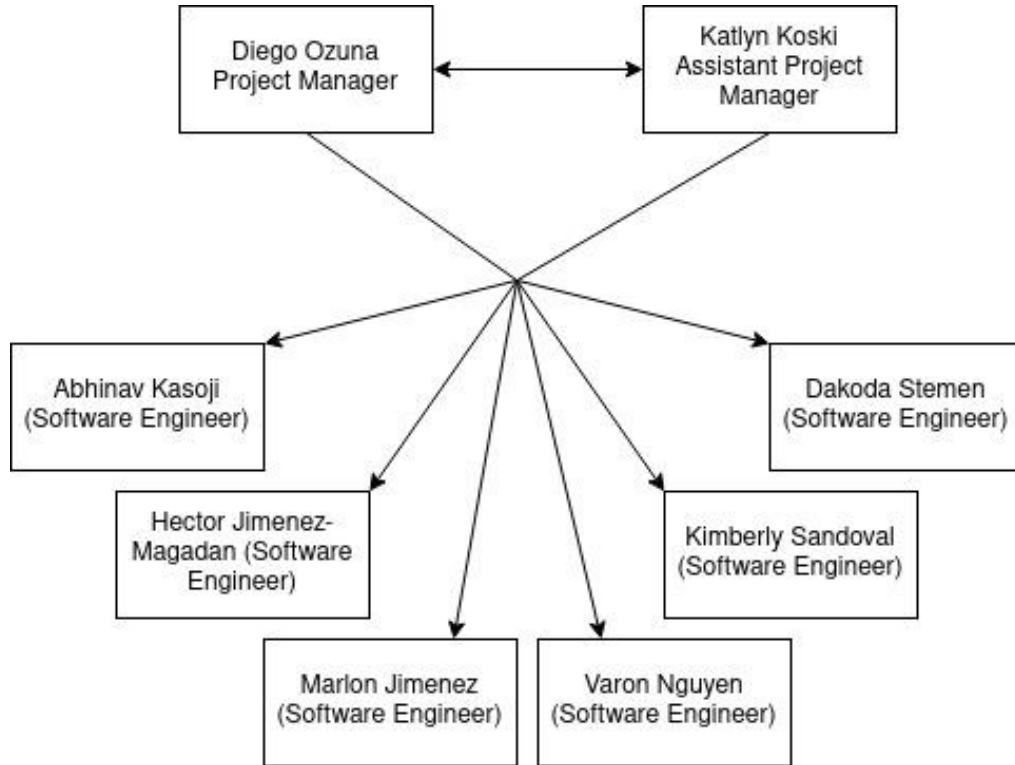
- Simplify meal planning and grocery shopping.
- Effortlessly manage fridge inventory.
- Create and discover recipes.
- Compile a grocery list.

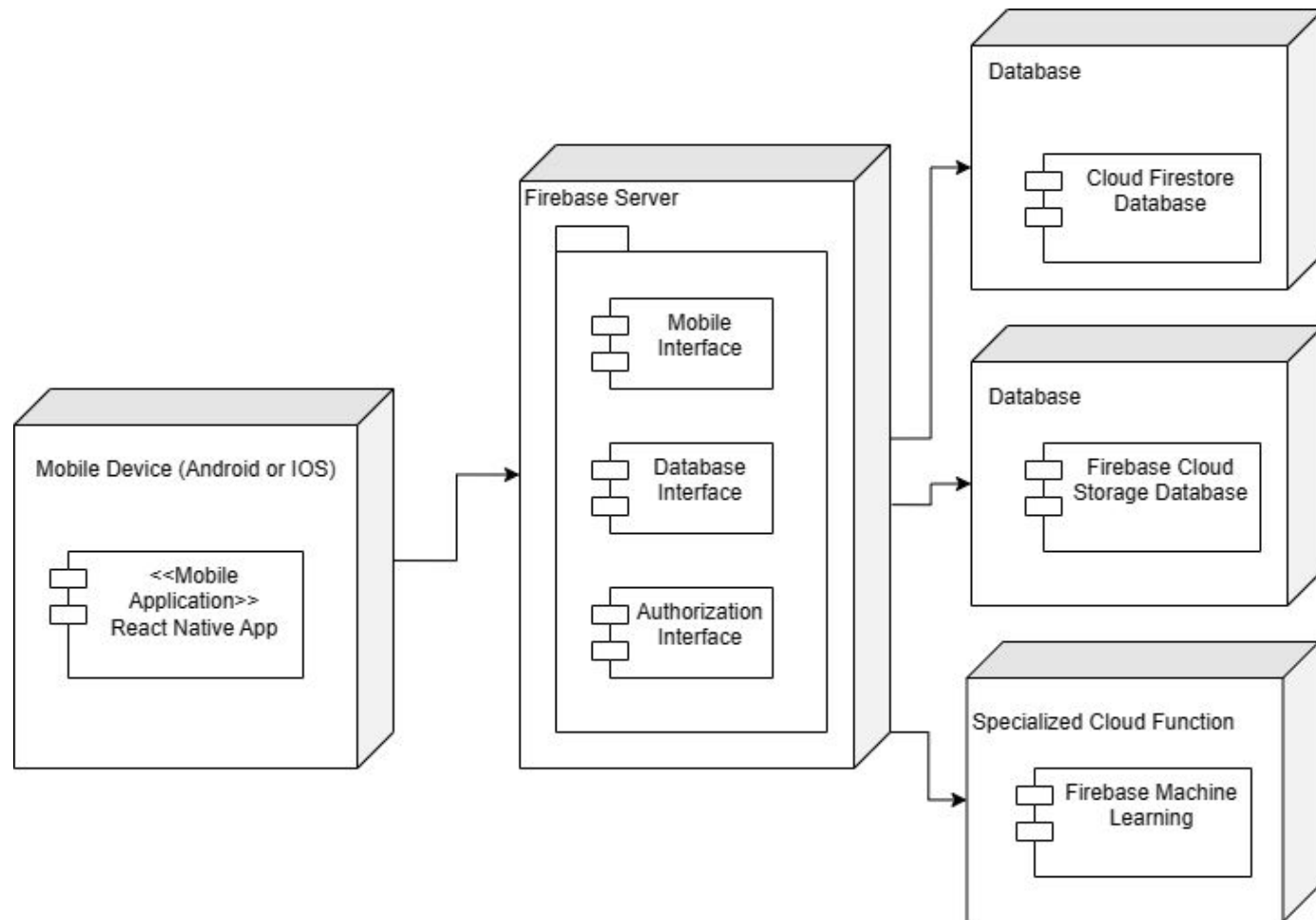




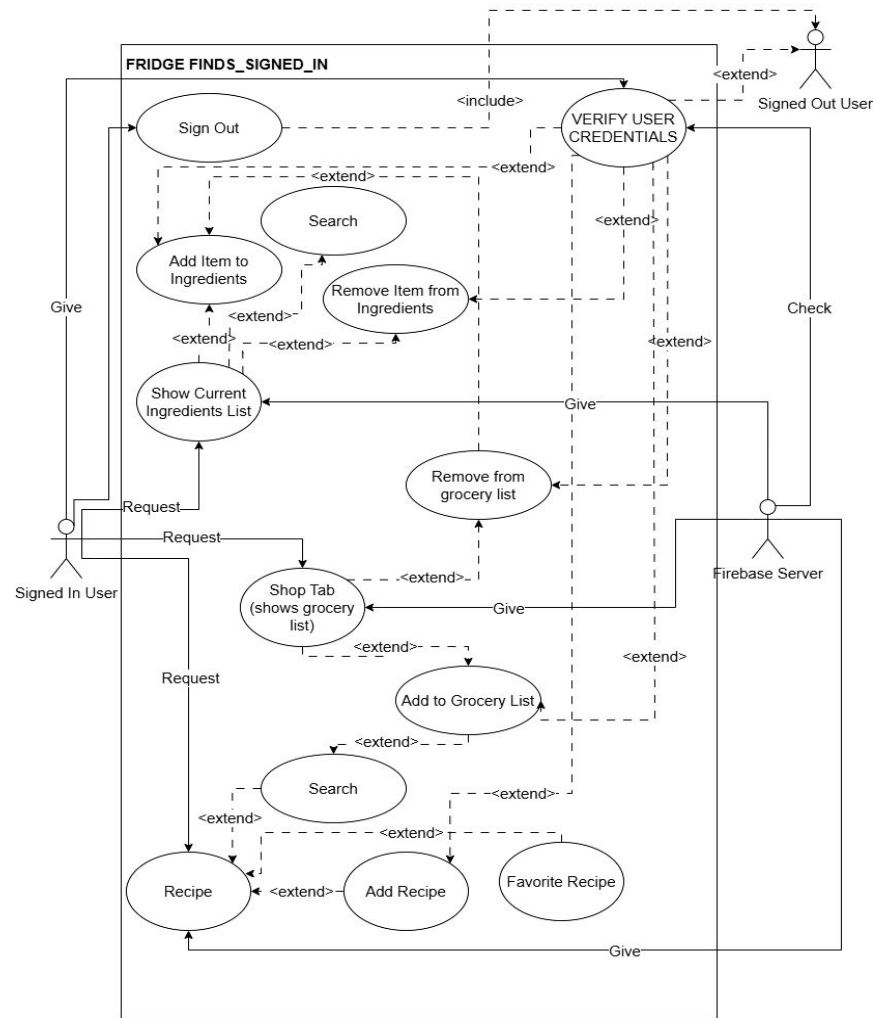
External Communication

Internal Communication

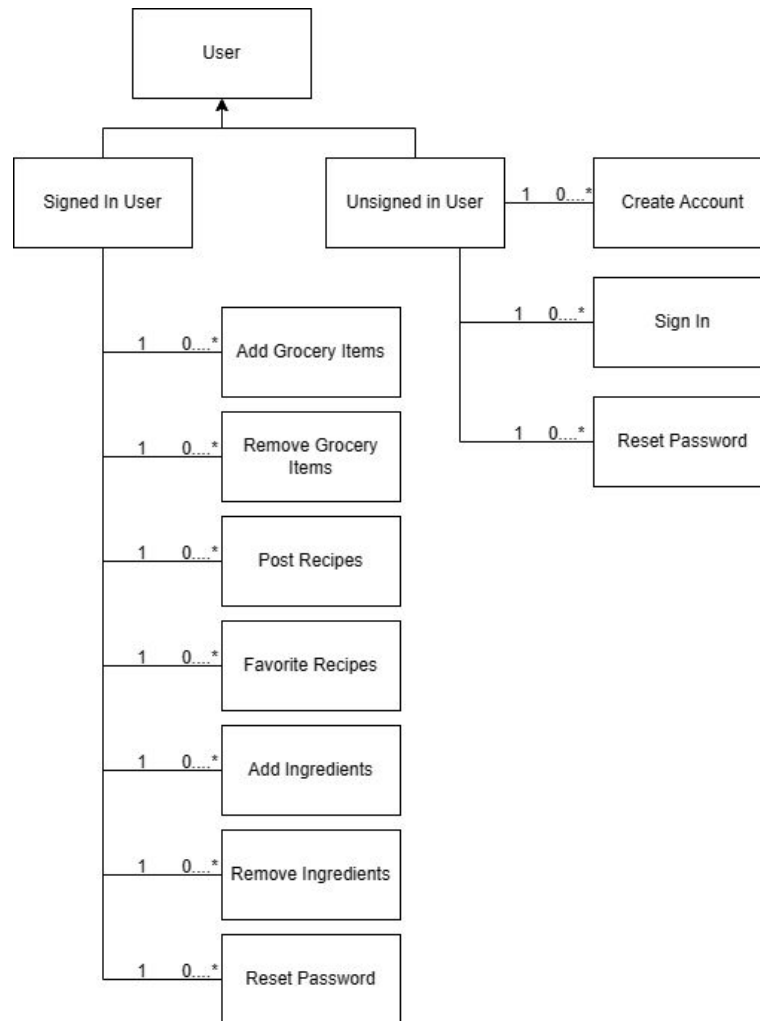




System Architecture



Use Case Diagram



Class Diagram

Initial Prototype

1. **Firebase Authentication**

- a. Sign Up Functionality
- b. Login Functionality

2. **Firestore Database**

- a. Database Secure Access
 - i. Retrieval of user Info
 - ii. Changing User Info
 - iii. Removing User Info
- b. Database syncing
 - i. Each changed element updates doc
 - ii. Each doc is refreshed

3. **Handles Events**

- a. All calls are properly closed after use

4. **User Interface**

- a. Rough sketch of the interface design.

Test Case Description	General Info
create custom user accounts	QA Team Member: Kevin Kim
	Date of Test: 11/10/23 11/10/23
	Test ID: AB-01
	PASS/FAIL: PASS
	Resolved?
	Additional Comments: I was able to create an account with fake email

Test Case Description	General Info
Sign in into existing account.	QA Team Member: Kevin Kim
	Date of Test: 11/10/23
	Test ID: AB-02
	PASS/FAIL: PASS
	Resolved?
	Additional Comments: I was able to login with the account I made from the create account test.

QA Testing:
Functions

Test Case Description	General Info
"Fridge" page (This will display the user's current ingredients list)	QA Team Member: Kevin Kim
	Date of Test: 11/10/23
	Test ID: AB-03
	PASS/FAIL: PASS
	Resolved?
	Additional Comments: Page displays properly

Test Case Description	General Info
"list" page and will be where the generated grocery list resides	QA Team Member: Kevin Kim
	Date of Test: 11/10/23
	Test ID: AB-06
	PASS/FAIL: PASS
	Resolved?
	Additional Comments: List page displays properly

QA Testing: Functions

Test Case Description	General Info
Users will be able to add onto this list manually	QA Team Member: Kevin Kim
	Date of Test: 11/10/23
	Test ID: AB-07
	PASS/FAIL: PASS
	Resolved?
	Additional Comments: I was able to add to list from recipe page with the "Add Ingredient" button and on the list page manually.

Test Case Description	General Info
Log Out	QA Team Member: Kevin Kim
	Date of Test: 11/10/23
	Test ID: AB-08
	PASS/FAIL: PASS
	Resolved?
	Additional Comments:

QA Testing:
Functions

Test Case Description	General Info
Reliability	QA Team Member: Kevin Kim
	Date of Test: 11/10/23
	Test ID: AD-01
	PASS/FAIL: PASS
	Resolved?
	Additional Comments: I checked for android devices, but the app used can be found on IOS as well so i can assume it would work on IOS as well.

Test Case Description	General Info
Error Handling	QA Team Member: Kevin Kim
	Date of Test: 11/10/23
	Test ID: AD-02
	PASS/FAIL: PASS
	Resolved?
	Additional Comments: I am able to switch between pages without a problem since the navigational buttons are always available.

QA Testing:
Non Functions

Test Case Description	General Info
“recipe” page displays recipes that can be made with their current ingredients list	QA Team Member: Kevin Kim
	Date of Test: 11/10/23
	Test ID: AB-04
	PASS/FAIL: FAIL
	Resolved?
	Additional Comments: No recipes displayed, even after manually adding ingredients

Test Case Description	General Info
search for recipes in "Recipe" tab and be returned a grocery list to get the missing ingredients they do not have.	QA Team Member: Kevin Kim
	Date of Test: 11/10/23
	Test ID: AB-05
	PASS/FAIL: FAIL
	Resolved?
	Additional Comments: When searching recommended list are displayed but cannot be interacted with. No recipe is displayed even if the types search matches one of the recommended recipes that drop down.

QA Testing:
Functions

Test Case Description	General Info	QA Testing: Non Functions
Ease of Use	QA Team Member: Kevin Kim	
	Date of Test: 11/10/23	
	Test ID: AD-03	
	PASS/FAIL: FAIL	
	Resolved?	
	Additional Comments: The navigational buttons are confusing in what page they represent, for instance I can only assume the shopping cart icon is the "Recipe" page, not really sure. The middle button is just a blank screen, don't know what it's supposed to show. The Search bar makes the nav buttons dissappear until you type in a search. The green button adds to the list but was confusing to understand it did that.	

This Prototype

1. Recipe Page

- a. Firebase Storage
- b. Users can post their recipes into app
- c. Users can access posted recipes and favorite select few
- d. Users can query database to find a given recipe
- e. Users can interact with post

2. Categories

- a. Information in database should be categorized

3. Polish User Interface

- a. Make all buttons formatted properly
- b. Handle further events normally

Future Prototype

1. Debugging
 - a. Make sure that drag and drop feature we implemented works at all times
2. Formal Sign in and Sign up
 - a. Include extra functionalities towards our user page to actually email the user and request for verification prior to sign in authentication
3. Having this simple addition would allow for development on a forgot password functionality
4. Include in our user page the ability to use the camera for scanning.

What was learned through this process?

- A lot of research is done, even for the most simplest of functions
- The engineering process is long and always a struggle, there is almost always never a time where things just click together
- If a function does not work, sometimes you have to do it yourself
- Always read what imported libraries are doing for you
- Always check your library compatibilities with each other

Overall: The more streamlined your resource gathering is and the more clear your vision for the project is, the more “straightforward” the road for you will be at the end.



fridgefind
s