

Project 3: Pantry Recipe App

Finished Project Documentation

Reflection

This project went better than I hoped. In my initial planning I was a little over optimistic, I had a lot of screens and a lot of functionality. I do want to continue working on this app and eventually get enough features in it that I can replace my family's current recipe app (which I think is very ugly).

When I started building the app, I realized quickly that it would be best to start with a sign up and register feature even though that was one that I was going to save for the future. It would allow me to save data to the user specifically instead of the basic bucket, I also realized that firebase integrated really well with a sign up and login and helped me through the whole process. That was definitely a big success!

After the login, I built the shells of some pages, but I spent a few weeks trying to see how I would process data. Apparently there are a lot of ways to do this with firebase but none of them seemed to be working with my app, and they were very complex.

Eventually, I found a way to add, view, edit, and delete data and from them, the rest of the project just fell into place. My biggest struggle was definitely trying to figure out how to use and add firebase data.

In The Future

For future development, I really want to add a search function and the ability to store recipes in folders for easier finding. Those are the biggest features on my list, as well as expanding my icon library. In the far future if I am still working on it, allowing users to paste a recipe link and having Pantry parse and create a recipe from the link would be very nice! That is my favorite feature of the recipe app Paprika. Because phones have the ability to scan for text in images, it would be cool if the app could also read recipes from screenshots or handwritten. These are definitely far in the future features however.

Features

Requirement	How I Fulfilled
3 Page Minimum	Total of 7 Pages (See pages below)

Displays Data	Data is displayed on recipe pages, see your list of recipe pages on the Recipe Main Page, see specific recipe info after clicking on a recipe, see that same info when you click edit.
Clicking Data Refreshes Data	As you sign in or out your data refreshes and as you visit the main menu page that displays your list of recipes your data refreshes
iOS Emulator Screenshot	Check Pages Below
Android Emulator Screenshot	
User Must Be Able to View Recipe	Recipe Main Page
User Must Be Able to Create Recipes	Create Recipe Page + Updates recipe on Main Page
User Must Be Able to Store Recipes	Recipes are stored using Firebase and remain as you login/out and open/close the app. You can log in on multiple devices and still see your saved recipes.

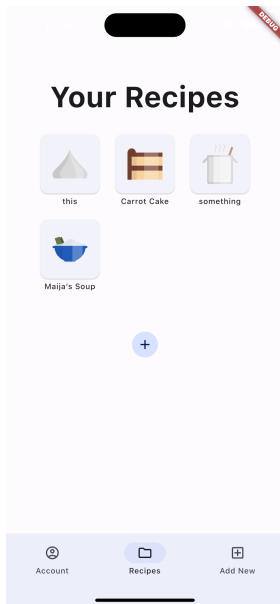
Extras Added

I added a sign up and login flow to separate user data and allow users to use their data from multiple devices instead of their data being stored on only one device. Recipes are shared between family members and friends and so being able to login on many devices is important. You can edit and delete recipes because you may want to change or add more information later or realize that the recipe you saved you no longer want to keep.

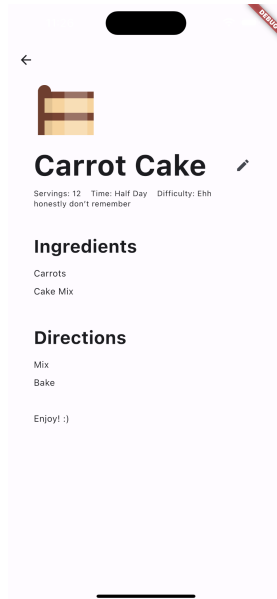
I decided to leave folders to another time, folders presented a bigger challenge than I anticipated, with storing the folder names and which recipes are in which folder, etc. Instead, I implemented the extra features mentioned above.

Pages - ios Screenshots

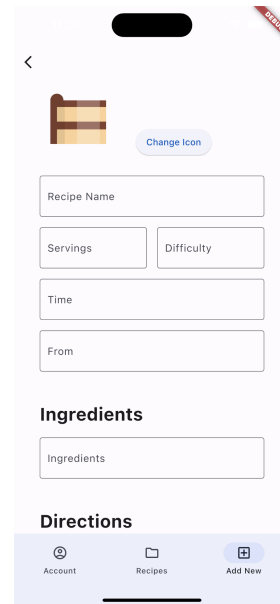
Home Page



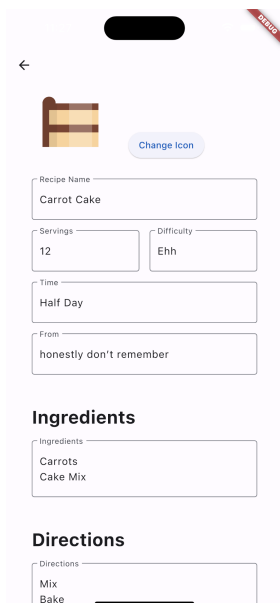
Recipe Info Page



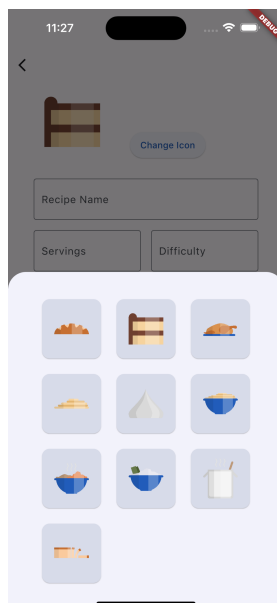
Add New Recipe



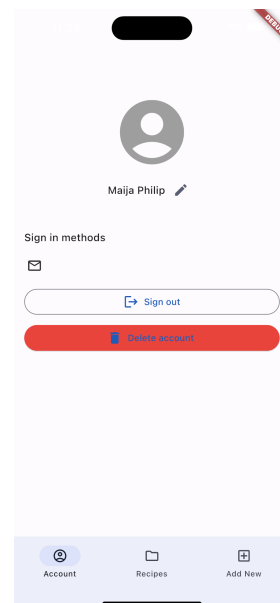
Edit Recipe



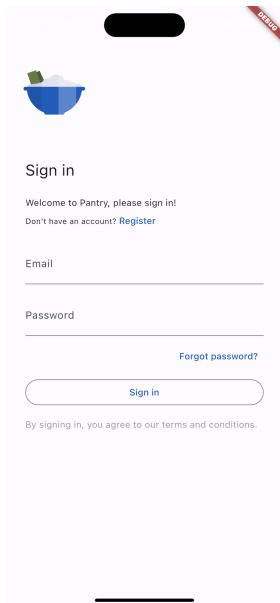
Edit/New Pop Up Modal



Account



Sign In



Sign in

Welcome to Pantry, please sign in!
Don't have an account? [Register](#)

Email

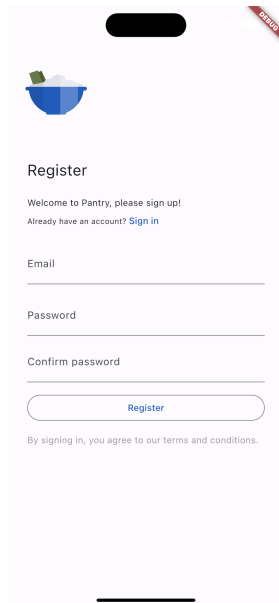
Password

[Forgot password?](#)

[Sign in](#)

By signing in, you agree to our terms and conditions.

Register



Register

Welcome to Pantry, please sign up!
Already have an account? [Sign in](#)

Email

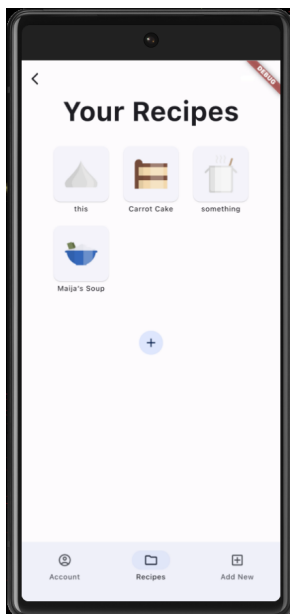
Password

Confirm password

[Register](#)

By signing in, you agree to our terms and conditions.

Android Screenshot



Design Information

Figma Link

<https://www.figma.com/file/mwVOnuMltNEYHEXnK51N9Z/Recipe-App?node-id=0%3A1&t=zK7pNxAh3VNsixkp-1>

User Test

During my usability test, I received a lot of valuable feedback. I changed the size of the recipes and folders to be smaller so there were more on the page as well as adding a search so that you can easily find your recipe. I changed the sign in from username to email so that the account is linked with an email address that they can not change. The main feedback was that there wasn't enough that you could see on one page and it would be hard to find their recipe, hence the search and making the icons smaller so more can fit.

Color Palette

I am using a Material Theme design and color palette. Currently there will only be a light mode but if I take this app further then a dark mode will be implemented.

Light Scheme

Primary	On Primary	Primary Container	On Primary Container
Secondary	On Secondary	Secondary Container	On Secondary Container
Tertiary	On Tertiary	Tertiary Container	On Tertiary Container
Error	On Error	Error Container	On Error Container
Background	On Background	Surface	On Surface
Outline		Surface-Variant	On Surface-Variant

Icon Set

I created my own set of icons instead of allowing the user to add a picture to their recipes. I found with my family's use of recipe apps that the pictures we add tend to be ugly and not really add anything. Maybe in the future users can add their own pictures, but for now icons are the only option.

Soup



Meringue



Rice-Beans



Chicken



Rice-Bowl



Cake



Tofu



Bread



Flatbread



Noodle-Bowl

