FoodTime Screen Sketches

Group 1_HB_6

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Actors

Child

- Permission to view plans only

Standard user (parent, etc)

- Can create/update/delete meals and ingredients for their user only

Manager (meal planner, dietician, etc)

- Can manage meal plans for any user under their supervision

Non-Functional Requirements

- The application should be responsive (no annoying latency) from when the user performs an action on the front end to the front end receiving confirmation that the action was processed by the back end
- The app should support as many users as necessary (i.e. no limit)
- The architecture of the app should remain as simple as possible while still retaining necessary functionality in order to support effective maintainability
- The app should run natively on Android

Tables and Fields

Users: Stores info regarding each user of the app
- username - primary key
- password
- UUID - used to look up user in all other situations except for login

Preferences: Tracks preference selections for each user
- UUID - primary key - Foreign key to User table
- darkMode
- (more fields as app development continues)

Pantry: Stores ingredient information associated with users (blake should add this)
- UID - primary key. Matched with associated user
- ingredientList - holds food items
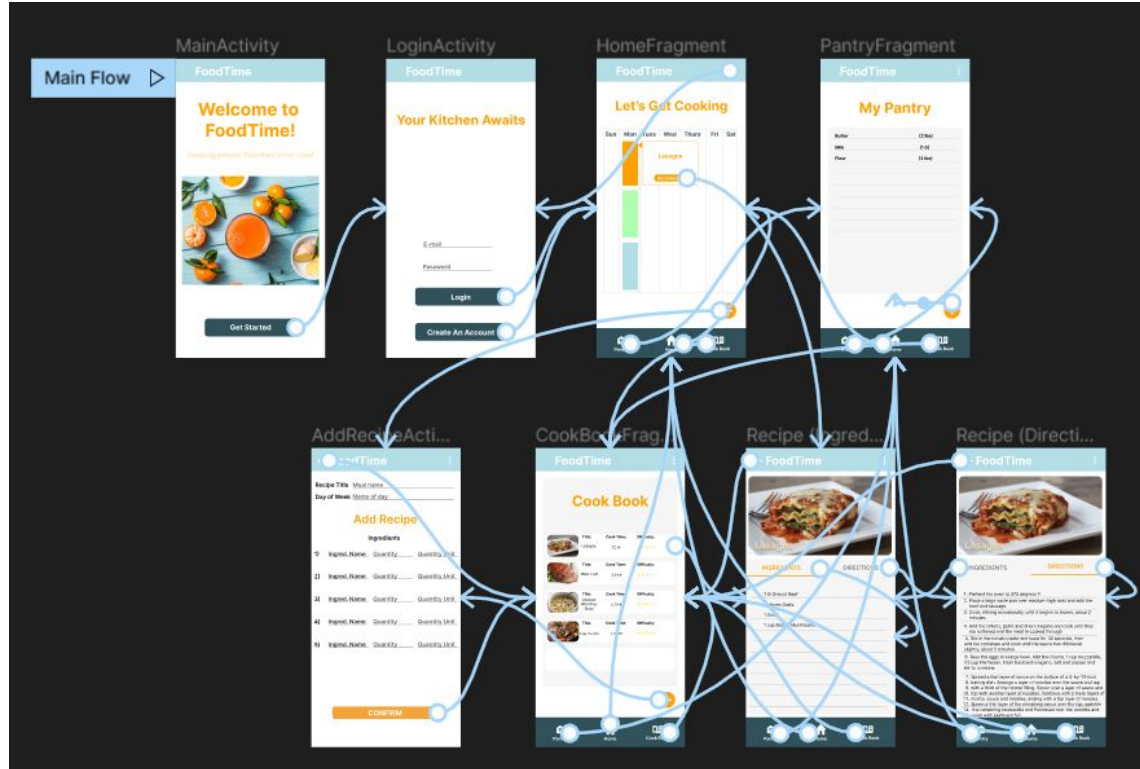- may add more in the future

Tables and Fields (cont.)

Meals: Weekly list of meals for each user

- UUID - Primary key, foreign key to users table
- Columns (one for each day of the week, each day is a HashMap<String, Meal>. This is for easy lookup of meals by day and name):
    - Sunday
    - Monday
    - Tuesday
    - Wednesday
    - Thursday
    - Friday
    - Saturday
    - Sunday

Screen Flow Diagram

Screen Flow Presentation

We decided to create our screen sketches in Figma, which includes a feature that allows you to prototype an app and its screen flow. The link for our presentation is provided below.

[Screen Sketch Figma Presentation](#)

Screen Sketches

Main Activity

Sketch by Anthony Manschula

The Main activity is the first screen users see after they download the app. They are greeted with energetic happy colors and a picture to inspire cooking!

- The only button or action available on this screen is the "Get Started" button, which brings the user to the login screen.
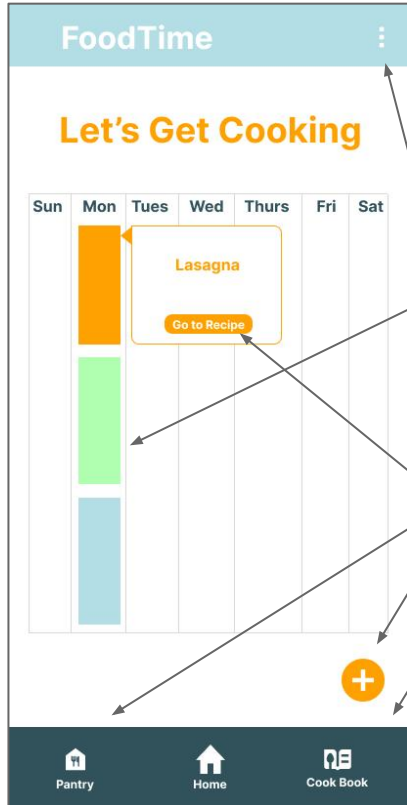
Login Activity

Sketch by Blake Hardy

FoodTime

Your Kitchen Awaits

E-mail

Password

Login

Create An Account

The Login Activity is where new users sign in for the first time, and where existing users login.

- There are two input fields (Email and Password) used to input existing credentials.
- The "Login" button is used to bring existing users that have inputted valid credentials to the Home Fragment
- The "Create An Account" button is used to bring new users to a screen to create their account.
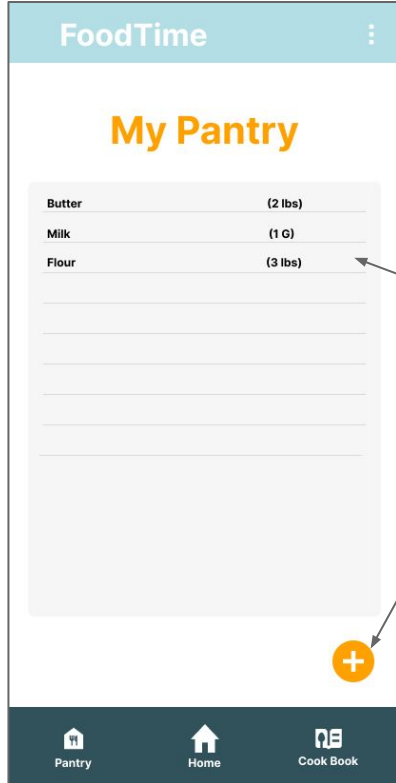
Home Fragment

Sketch by Henry Shires

The Home fragment is the first screen a user sees after successfully signing in, a fragment of the Dashboard Activity, which includes all screens navigable by the bottom tab navigator.

- The user will have a static weekly calendar that will have all of their scheduled meals for the current week.
- The user will be able to add recipes to the calendar by clicking the orange "+" button in the bottom right corner.
- Furthermore, the user can navigate to to the Pantry fragment by clicking "Pantry", and the Cook Book fragment by clicking "Cook Book" in the bottom navigation bar.
- The user can also navigate directly to a recipe by hovering and clicking "Go to Recipe"
- The user can click the 3-dot menu to "log out" if they want to sign out of their account

Pantry Fragment

Sketch by Blake Hardy

FoodTime

My Pantry

|	
Butter	(2 lbs)
Milk	(1 G)
Flour	(3 lbs)

Pantry   Home   Cook Book

The Pantry Fragment of the Dashboard Activity is where the user stores all of the ingredients that they already have available to them in their home.

- The orange "+" button in the bottom right corner is used to add ingredients to users pantry after a grocery haul.
- Items can be removed by clicking and holding.
- The user can also use the Bottom Navigation Bar to navigate back to the Home Fragment by clicking "Home", or go to the CookBook Fragment by clicking "Cook Book"
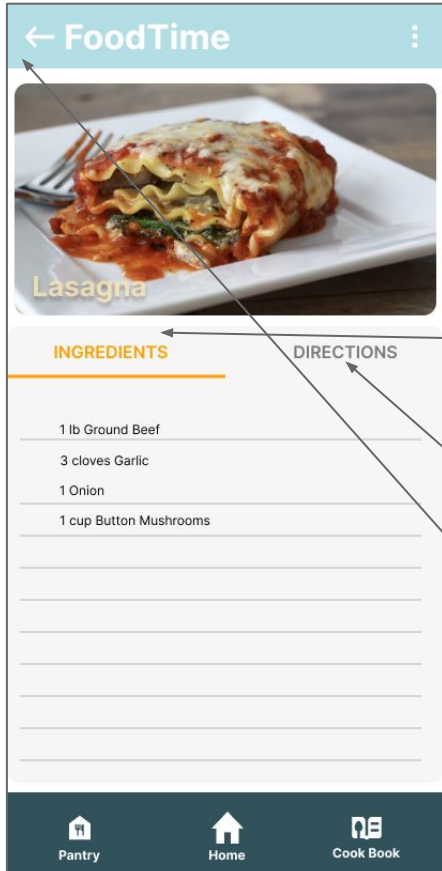
Cookbook Fragment

Sketch by Will Maahs
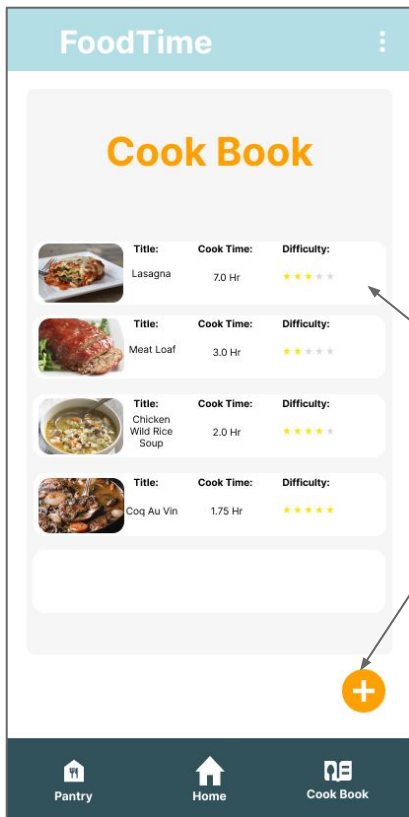
The Cookbook is a fragment of the Dashboard Activity in which users can look up recipes they've added or sample recipes from our development team.

- The user can add recipes to their catalog by clicking the "+" button
- The user can click on a recipe to view it in more detail, such as the ingredients required to make it and the directions (see next page)

Recipe Fragment (Ingredients)

Sketch by Will Maahs

The Recipe Fragment is where the user views the details of the selected recipe including the ingredients and the directions. They reach this screen after clicking on a recipe from the Cookbook Fragment.

- The user can click on the "Ingredients" tab to view the required list of ingredients. The app will let users know which ingredients they have and don't have based on their inputted pantry so they can plan to buy missing ones
- The user can click on the "Directions" tab to perform the recipe and use the app as a guide
- The user can click "Back" to go back to the recipes list

Recipe Fragment (Directions)

Sketch by Henry Shires

The Recipe Fragment is where the user views the details of the selected recipe including the ingredients and the directions. They reach this screen after clicking on a recipe from the Cookbook Fragment.

- The user can click on the "Ingredients" tab to view the required list of ingredients. The app will let users know which ingredients they have and don't have based on their inputted pantry so they can plan to buy missing ones
- The user can click on the "Directions" tab to perform the recipe and use the app as a guide
- The user can click "Back" to go back to the recipes list

AddRecipe Activity

Sketch by Anthony Manschula

← FoodTime

Recipe Title Meal name
Day of Week Name of day

Add Recipe

Ingredients

1) Ingred. Name Quantity Quantity Unit
2) Ingred. Name Quantity Quantity Unit
3) Ingred. Name Quantity Quantity Unit
4) Ingred. Name Quantity Quantity Unit
5) Ingred. Name Quantity Quantity Unit

CONFIRM

The Add Recipe Activity is where the user can add a recipe to their account. Recipes allow users to store templates of meals they can schedule in their calendar later.

- The user enters a recipe name
- The user can optionally enter a day of the week they want to pre-plan to make this meal
- The user adds ingredients required for this recipe
- When the user has finished adding information to the recipe, they click "Confirm"
- The user can click "Back" to go back to the recipes list