COOKBOOK

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Introduction:

Purpose of Cookbook:

The CookBook app is intended to be a social media platform for chefs and at home cooks to share recipesand engage in public forums. Users may upload their own recipes and save other recipes to a favorites list. People can also create forums for any questions or techniques other people can implement when cooking their recipes. People may freely comment on other forums to provide instant feedback. While posting recipes, users may also upload images to showcase their final products and demonstrate what is expected.

Functional Requirements:

Home Page

1. **When a user downloads and opens the app, the system shall display the Home Page.**
   Description:
   Like any other app, the user can download the app from the Apple App Store, or Android Google Play. Once downloaded, the system will first display the app's Home Page.

2. **If the user does not have an account, the user shall register using their email and creating a username and password.**
   Description:
   When downloading the app for the first time, users will be required to sign in with their login information. The user will enter their credentials such as their email/username and a password they will remember each time to login into the app.

3. **If the user has an account, the user shall enter their credentials (email/username & password).**
   Description:
   For users that already have an account, the user must enter the information they have already registered into the database to access their accounts. The system will open their account back up to all their saved data relating to their recipe posts and forum discussions. Their profile page and data will also be available to modify again if needed.

4. **Once the user logs in, the system shall direct the user to the main recipes page.**
   Description:
   Although all pages of the account will be accessible to modify and view, the system will first lead the user to the main recipes page. This will have all the new and prior recipe posts that users have posted and shared.

Forum Screen

5. **When the user opens the Forum Tab the system shall display recent forum entries.**
   Description:
   When the user taps on the Forum tab, the user will be presented by posts made from other users. These forums contain questions or advice about cooking topics. Each forum entry would display a like count, reply count, title of the forum thread, and the user's profile picture.

6. **If the user pushes the + button it shall display a forum creator/editor.**
   Description:
   When the user taps on the "+" symbol on the forum screen, it will display a page where the user can create a forum. In this page, there are two text boxes for the title and the content of the forum. The user can tap on both text boxes to input their own title and content.

7. **In the forum editor when the user pushes "Submit" they shall return to the forum screen.**
   Description:
   When the user pushes "Submit" on the create forum page, the forum screen will be updated with their post in the recent section of the page. Which would display their forum and all of its contents.

8. **When A forum is tapped the system shall expand and display the question and the responses to that forum.**
   Description:
   When the user taps on a forum, the selected forum will be expanded, displaying the question and responses to the selected forum. The responses contain messages from other users, and their profile pictures and usernames. The user can also reply to the forum and responses to the selected forum.

9. **When a user clicks on the search bar, a user shall be able to enter specific search criteria.**
   Description:
   When the user taps on the search bar, the user is able to search certain keywords to navigate through the forums easier. For example, if the user wanted to look up topics about chicken then they would input "chicken" to the search bar. After the search, the forum page would only display topics based on what was inputted in the search bar.

Recipe Page

10. **If the user taps on a recipe, the system shall display the recipe**
    Description:
    The user is presented with a list of recipes, these contain an image and a title. If the user finds it interesting they can tap on the recipe card to expand it in a separate screen. Here the user can view the ingredients and directions of the overall recipe. When finished there is a back button that returns the user to the recipe list.

11. **If the user taps on the plus, the system shall display the Create Recipe Page**
    Description:
    On the list of recipes as an overlay there is a circle with an edit pen icon. Once this is clicked the user is navigated to the recipe editor page. To return to the list the user can press the back button to return to the list page.

12. **On the Create Recipe Page, the user shall create a title, ingredients/directions, a photo, and select at least one tag before submitting their recipe**
    Description:
    The recipe editor has 3 input boxes. The first allows the user to enter a title of the recipe. The second allows the user to input ingredients needed for the recipe. The last box allows the user

to input directions for the recipe. Once the user submits the recipe they are returned to the list view and the new recipe is posted.

13. **If the user taps on a like, the system shall update the like count on the recipe**
    Description:
    Each recipe card has a small heart Icon. When the heart is tapped the database updates a variable to show how many people have liked a certain recipe.

Profile Page

14. **When the user clicks questions the system shall display the users posted questions.**
    Description:
    When the user is on the profile screen and tabs the forum button the page displays the forums the user has posted. This a flat list view and is usable so tapping on these cards will display a usable forum card. The user can exit this view by tapping the recipe button next to the forum button.

15. **When the user clicks recipes the system shall display the users posted recipes.**
    Description:
    When the user is on the profile screen and tabs the recipe button the page displays the recipes the user has posted. This a flat list view and is usable so tapping on these cards will display a usable recipes card. The user can exit this view by tapping the forum button next to the recipe button.

16. **When the user clicks save recipes the system shall display the recipes saved from other users.**
    Description:
    Since users can save recipes created by others, these are stored under the saved recipes tab found on the profile Screen.

17. When the user clicks settings the system shall display the settings that can be changed
    Description:
    The profile screen has a small gear icon which is the setting button. Once clicked the user is navigated to the settings page where they can modify their user information. Once done they are navigated back to the profile screen with the information updated.

Interface Requirement
GUI

When the user selects the cookbook icon on their device an initial signup screen will be displayed. If a new user uses the app they will be asked to create a new account. Or if the user is signed out they can navigate to the sign in screen below the register button. If the user is already logged in the app when they open the app they will be taken to the homescreen. With the forum tab opened. On the homescreen they can navigate the application using the bottom tabs. Clicking on these tabs will take them to either the forums, recipes, or profile page.

Login Screen   **Signup Screen**   **Home Screen**

Hardware Interfaces
This app shall only function on mobile devices and also tablets.

Software Interfaces
If the user wants to upload pictures for their recipes or profile the user must allow the app the ability to use their photos.
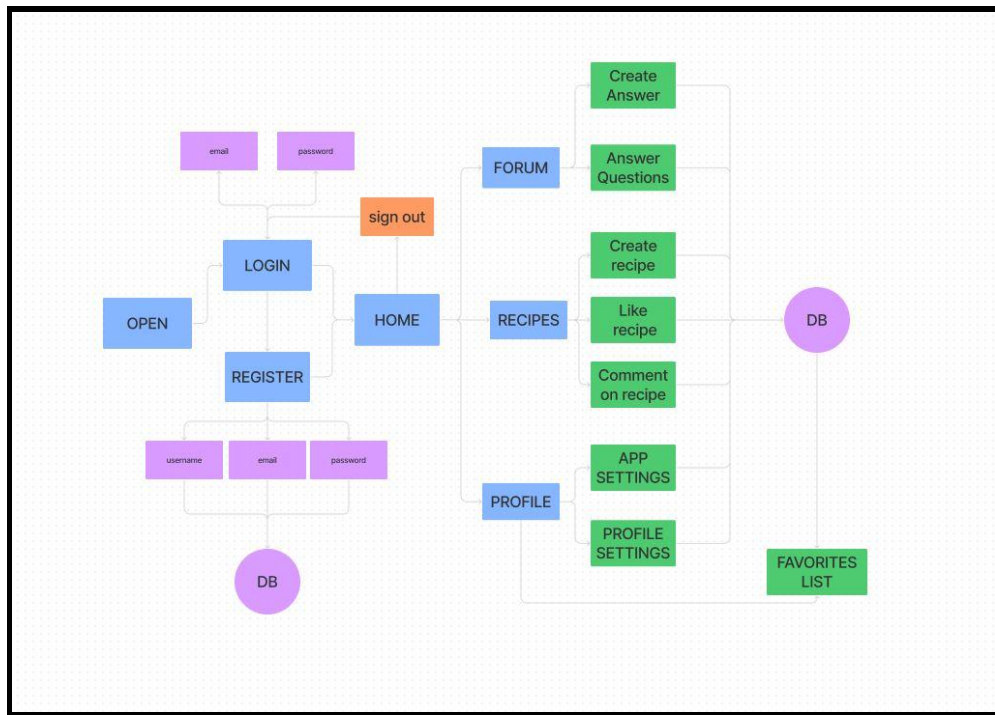
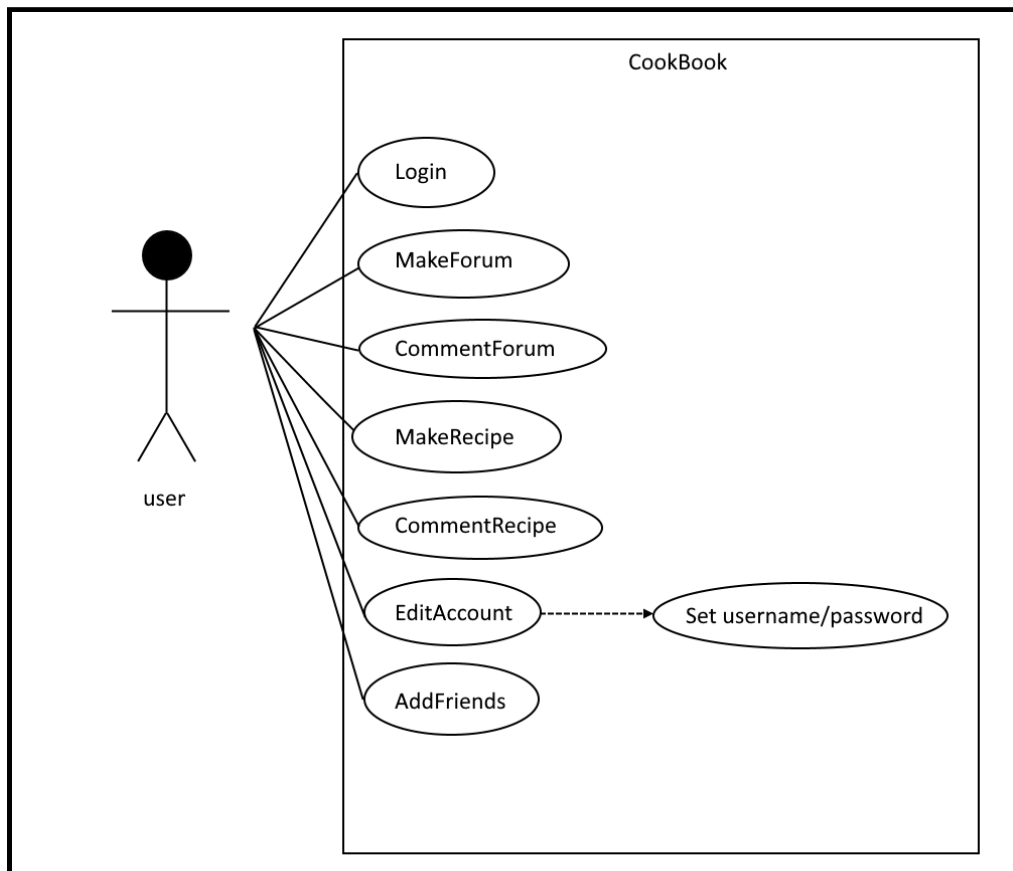# Diagrams and Models:

Figure 1: Flow Diagram of overall Application

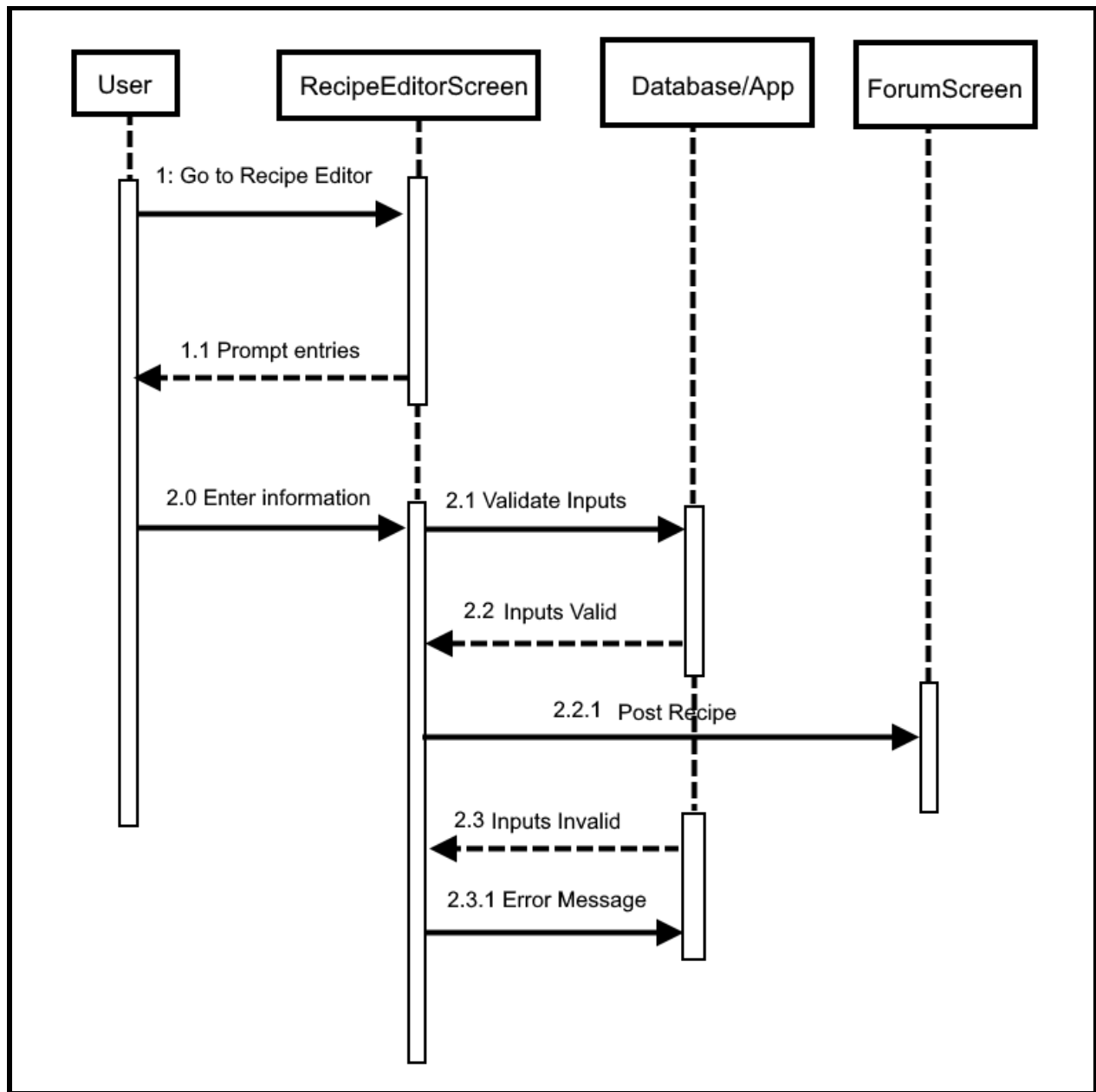

Figure 2: Use Case Diagram for *CookBook*

Figure 3: Sequence Diagram for MakeRecipe

Appendix A: User Manual

This section shows how to use the Cookbook app

1. Login

An existing user will enter in their email and password associated with their account and hit login to get access to the app.

3:07 ◀ Camera

COOKBOOK

rpuertas@yahoo.com

LOGIN

REGISTER

2. Signup

If a new user, the user hits the register button under the login button on the login screen. Taking the user to the signup screen asking for username, email, and password. In creating an account the user will enter a username, email and password and press the register button to get access to the app.

3:08 ◀ Camera

COOKBOOK

rpuertas

rpuertas@yahoo.com

REGISTER

back to login

3. Forum page

When the user gets access to the app it will initially take them to the forum page. There is a navigation bar at the bottom showing forums, recipes and profiles. The forum page shows a list of already posted forum questions. If the user hits an individual forum that forum will be expanded where the user can comment. There is a button above the profile nav button where the user can create a new forum. This will take you to the Forum Creator.
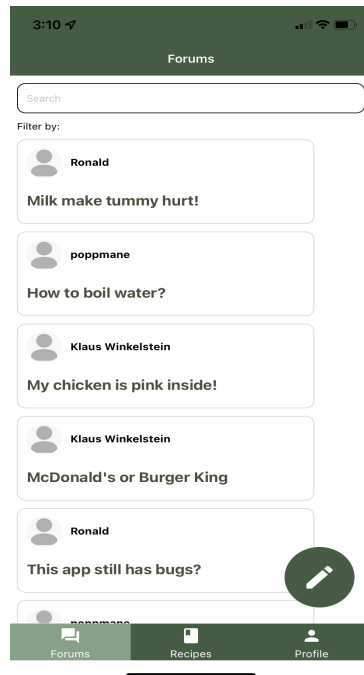

4. Forum Creator

When the user is on the forum creator page it will ask for a question and a description. There is a submit question below the description box and when pressed will submit the forum and add it to the forum page. To exit the forum creator you press the exit on the top right of the app.
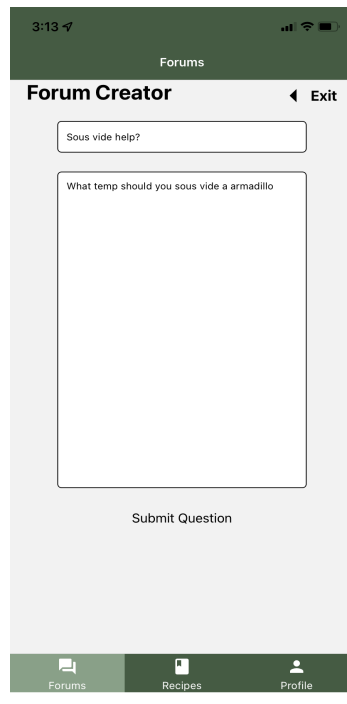
5. Recipes Page

When the user presses the recipes button the navbar it will take them to the recipes page. This page displays all recipes that have been uploaded to the application with a picture and the name. When the user presses an individual recipe it will expand it showing the picture, name, ingredients, and instructions of that recipe. There is also a button above the profile button to create a new recipe.
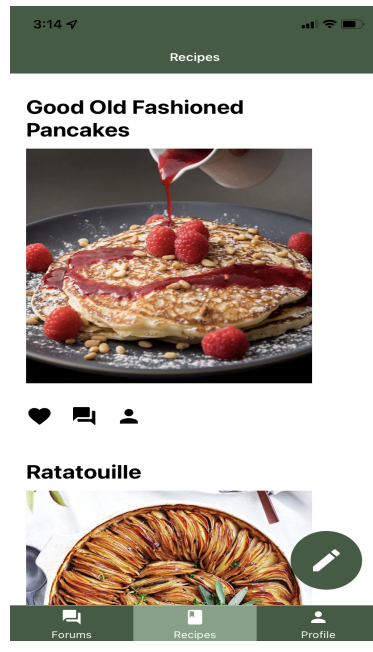

6. Recipe Creator

This page asks the user for the name of the recipe, instructions, and ingredients. The user must also upload a picture to go along with the recipe. To upload an image you press the upload picture button under the instructions box. This will prompt your device with the image gallery to select a picture. Then to submit you press the submit recipe button. To exit this page you press the exit on the top right of the page.
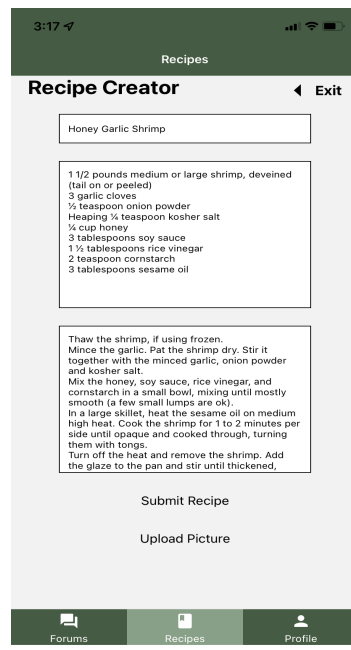
7. Profile Page

A new user will have a default image and description of their profile. Profile page will also show your posted forums and recipes associated with your account.To edit this you click the pencil next to your name at the top of the screen.
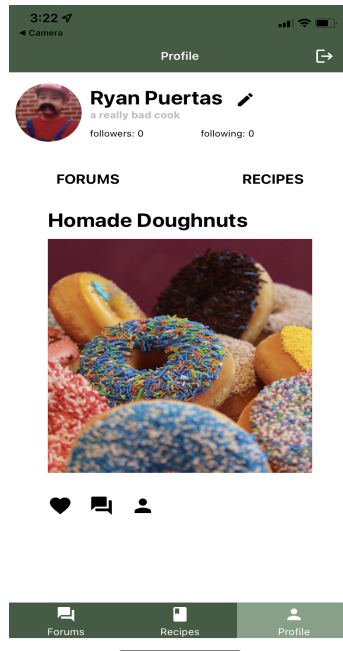
8. Profile Editor

This page will ask you for a username and description. It also asks for the user to upload a profile picture.