User Profile and Recipe Scenarios

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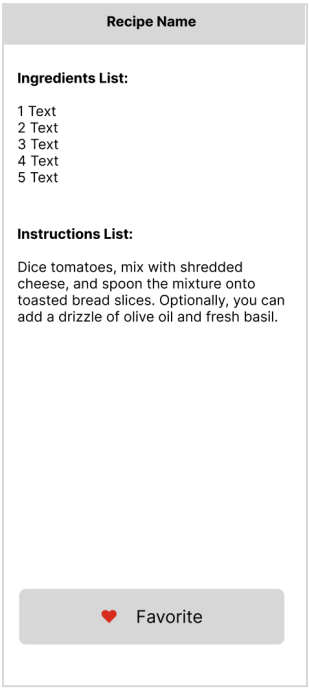
Release 2 of the application enhances the recipe recommendation and exploration systems further, now allowing users to choose from a much larger database of ingredients and having a plethora of new recipes added. This will be done by linking the application to the firebase database that we have created. Another feature we will incorporate is the user authentication feature through a login page. This information will also be stored in a separate collection in the database, which will store user data. This will allow users to save their favorite recipes. We will also be fixing bugs from the first release such as retrieving the correct recipe when using the recipe recommendation feature.

Scenario "Saving Favorite Recipes"

Users now have the ability to sign up and log into the application. This helps with user authentication as well as creates a profile for the user, whose information we will store in a database. We will use this to keep track of 'user favorites' when it comes to recipes.

When the users navigate to the 'browse recipe' page, they can now click on the 'favorite' button to save that specific recipe onto their profile. The users will be able to view their favorite recipe in their profile after adding it to favorites.

The recipe page will look as follows with the addition of the favorite button:



We also intend to improve the appearance of the recipe description page by adding an image of how the recipe looks. We will also break down the instructions list further into steps to improve user experience.

Scenario "Recipe Recommendation" (Update)

As an enhancement on our current functionality, users will now be able to choose from a large number of ingredients that they may have available with them. The application will also return many more recipes to the user for the ingredients, giving them more options to choose from. To achieve this, we are going to integrate a large database that stores ingredients and recipes, and the app will dynamically fetch all the possible ingredients to show to the user for selection. The selected ingredients are then used to create a query that is sent to the database, which returns a list of all possible recipes using the selected ingredients to the application. The matching is done such that the recipe ingredients should be a subset of the ingredients selected by the user. These recipes are then shown in a list to the user, who can scroll through and select the recipe that they like to view more details for.

The following flowchart showcases the overall functionality that we envision:-