Criterion A: Planning

Client

My client is Thamarai Durairajan, a manager who is constantly in between meetings. However, she still always makes sure to clear time for her favorite hobby, cooking. With her minimal time, she is always looking for ways to increase her efficiency while still creating the dishes she loves.

Advisor

My advisor is Thangavel Ravivarma, a senior software engineer with experience in many different languages, databases, and other software concepts. He is willing to put in the extra hours to help with this app. This discussion is in Appendix B.2

Describe the Scenario

My client finds that it is difficult to remember the plethora of recipes she has in stock. In addition, with her time constraint, she spends as little time as possible coming up with the recipe and rather gets right into cooking. Lastly, when she is grocery shopping, she tends to buy the same ingredients because she does not have a recipe in mind and does not know what she already has at home. These factors lead her to reuse the same recipes over and over again. This discussion is located in Appendix B.1.

We discussed an application that will meet her desires. She wants to be able to input her existing inventory of food items. After further discussion, my client decided that this should be subject to modifications, allowing her to update her inventory. We also decided on creating a separate area where she can input recipes. And lastly, we discussed having a menu screen to view all the different recipes, allowing her to scroll and choose one of her liking. This discussion Appendix B.3.

My proposed solution is the android app *CareFree Cooking* that will allow the client to input and edit inventory and recipes and view them anytime.

Rationale for Solution

I will use Dart to code the app on the Flutter Platform with the Android Studios UI for straightforward development for an aesthetic and easy-to-use app. I will connect this code with Firebase, a cloud hosted database that will allow me to store and retrieve the inventory and recipes easily. Although all of these features are unfamiliar to me and require new learning, I am positive that they will speed up the development process in the long run. The app will be downloadable on my client's android phone. Having it on her phone will allow for easy access when she is at the grocery store or the kitchen.

Success Criteria

1. Enable client to add Recipes with the recipe name, ingredient names, and quantities of ingredients
2. Display collection of recipes in a Menu page
3. Allow client to edit fields of each Recipe
4. Enable client to add Inventory items with name and amount
5. Allow client to view the Inventory items after inputting
6. Allow client to edit Inventory fields
7. Include simple interface for accessibility

This discussion is in Appendix B.4.