Vy Le
CS506: Software Engineering
Project Proposal

Title:

Simply Recipes

Problem:

Convenience food might feel like the quickest, easiest option but it can negatively contribute to your health. On the other hand, preparing home-cooked meals is one of the simplest ways to improve your health. It is a challenge for some people due to their lack of cooking skills and it takes too much of their time. In order to make a meal, they have to think or look up a recipe before buying the ingredients. However, many people buy groceries before knowing what to cook ahead of time. It is difficult to prepare meals when they either don't have enough ingredients for a recipe or don't know what recipes they can make with the ingredients you already have at home.

Solution:

The solution is to create a mobile application that allows users to search and find recipes based on the ingredients that they have. Users can also have many options to filter recipes based on their cuisine, methods of cooking, etc.

Customer Description:

The customer for this application is Andrew Le, an IOS engineer at iHeartRadio. He has knowledge of application development and also passionate about cooking. This application will also be tested by Andrew and he can provide feedback on the UI/UX design, especially the usability of the application.

Application Description:

- Allow users to search for the food, ingredients, and recipes.
- Users can add multiple ingredients and the application will find the best match with the selected ingredients.
- Allow users to filter based:
    - Methods of cooking: baking, stir-frying, etc.
    - Meal type: breakfast, dinner, cake, etc.
    - Cuisine: Chinese, Mexican, Italian, etc.
    - Calories
- Suggest recipes and display the newest recipes
- Track user consumption and suggest related recipes
- Save favorite recipes
- Share recipes to friends
- Add ingredients into a shopping list

Testing and Demo:

This application can be tested by simply search and filter preference. We can check if the recipe is working correctly by the selected ingredients and filter options. Users of this application can also help test the features of the application.

Justification:

This proposal is ideal for this project because it is feasible for a group of 6-8 students. The project can be broken down into small tasks so that each student can contribute and help build the application. Students can work on different parts of the project such as frontend, backend, and testing.