



Team 18 - Project Backlog

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Problem Statement

Every day, families across America are faced with the question: “What is for dinner?”. Many people have a wide variety of seemingly random ingredients in their refrigerators, but nothing concrete. Our project hopes to remedy this problem by allowing users to input a list of ingredients they have on hand, and provide a list of recipes which the users can use to (hopefully) produce something edible. While there are existing solutions to this problem, many of them don't allow a lot of personalization to input allergies and other limitations that you don't want showing up in your recipe list.

Background Information

Audience

In modern society, grocery shopping and cooking can easily be overlooked by a chaotic and long work schedule. This can lead to the reliance on food delivery services and eating at restaurants which in turn is costly. To cut down on costs and provide edible and fresh homemade food, adults and their families can cook meals catered to their available ingredients and needs using Fridge2Food.

Similar Platforms

There are various websites that one can go to that allow you to find recipes for ingredients you have such as Supercook and MyFridgeFood. These websites allow you to select ingredients from a preset list that they give you and they will then do their best to find a recipe that fits it.

Limitations

Many of the websites listed above already provide a list of ingredients to use which do not take into account limitations such as allergies that users may have. Also ingredients that do not appeal to the user can be filtered out.

We plan to reduce these limitations by allowing users to create a personal account where they can input their specific needs regarding dislikes and allergies. Then this information can be addressed and inputted to find personalized recipes.

Requirements

Functional

1. As a user, I would like to be able to create an account on Fridge2Food.
2. As a user, I would like to be able to login and manage my Fridge2Food account.
3. As a user, I would like my password to be reset if I forget it.
4. As a user, I would like to be able to view recipes.
5. As a user, I would like to be able to input my allergies.
6. As a user, I would like to be able to input the ingredients I currently have so that I can have recipes catered to my needs.
7. As a user, I would like to rate and comment on recipes I have created so recipes can be reviewed.
8. As a user, I would like to be able to input my own recipes.
9. As a user, I would like to be able to view ingredient substitutions for recipes.
10. As a user, I would like to be able to favorite recipes so that I may find them again.
11. If time allows, as a user, I would like to know the nutrition facts about the recipes.
12. As a user, I would like to be able to access my user created recipes.
13. As a user, I would like to receive comments on personal recipes so that I may improve them.
14. As a user, I would like to create a profile picture.
15. As a user, I would like to be able to change my username.
16. As a user, I would like to insert pictures of recipes I have created.
17. As a user, I would like to be able to access Fridge2Food from all of my devices on a mobile-friendly website.
18. As a user, I would like to be able to allow users to swap certain ingredients with healthier ones when creating a recipe.
19. As a user, I would like to be able to sort recipes by cooking time, calories, rating, etc.
20. As a user, I would like to input dietary restrictions (ex. Vegan, vegetarian, pescetarian, etc.)

Non-Functional

Architecture and Performance

The front end web application will be developed using React JS, and the backend will be a combination of Flask and Firebase.

Usability

The website should be visually appealing and be easily accessible. For us, this means making the website intuitive and simple enough that anyone can come to it and not be confused while using it. We will also want our website to be accessible from any platform and browser so as to reach the largest audience possible.

Hosting/Deployment

For our website we will be looking to use Firebase to host the website. Firebase will allow us to easily deploy updates and to handle user management more easily than it would be otherwise. This ease will allow us to focus on other aspects of the project.