



## 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 create a profile picture.
5. As a user, I would like to be able to change my username.
6. As a user, I would like to be able to favorite recipes so that I may find them again.
7. As a user, I would like to be able to view recipes.
8. As a user, I would like to see a list of ingredients for each recipe.
9. As a user, I would like to see instructions for each recipe.
10. As a user, I would like to see the total number of recipes I can make with the ingredients I have.
11. As a user, I would like to search through the recipes I can make using a search bar.
12. As a user, I would like to see all comments made on a recipe.
13. As a user, I would like to reply and like other user's comments.
14. As a user, I would like to be able to input my allergies as a list of ingredients in the database.
15. 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.
16. As a user, I would like to have recipes that I have every ingredient for at the top of the list and recipes where I'm missing a couple ingredients near the bottom.
17. As a user, I would like to rate and comment on recipes I have created so recipes can be reviewed.
18. As a user, I would like to be able to view ingredient substitutions for recipes.
19. If time allows, as a user, I would like to know the nutrition facts about the recipes.
20. As a user, I would like to be able to input my own recipes.
21. As a user, I would like to be able to access my user created recipes.
22. As a user, I would like to receive comments on personal recipes so that I may improve them.
23. As a user, I would like to insert pictures of recipes I have created.

24. As a user, I would like to be able to access Fridge2Food from all of my devices on a mobile-friendly website.
25. As a user, I would like to be able to allow users to fork my recipes so they can make personal alterations
26. As a user, I would like to be able to sort recipes by cooking time, calories, rating, etc.
27. As a user, I would also like to sort recipes by meal type (ex. Breakfast, Dinner, Dessert, etc).
28. As a user, I would like to input dietary restrictions (ex. Vegan, vegetarian, pescetarian, etc).
29. As a user, I would like to add ingredients to the database.
30. As a user, I would like to see my most frequent ingredients appear in a dropdown when I click on the search bar.
31. As a user, I would like to use the site without logging in.
32. As a user, I would like to remove all currently selected ingredients.
33. As a user, I would like to be able to convert measurements.
34. As a user, I would like to be able to convert between Fahrenheit and Celsius
35. If time allows, I would like to see the utensils and equipments needed for the recipe.
36. If time allows, I would like to know the price of an ingredient I do not have at a store nearby.
37. As a user, I would like to see my most popular recipes.
38. As a user, I would like to see the website's most popular recipes.
39. As a user, I would like to add ingredients by clicking on options.
40. As a user, I would like to add ingredients by typing.
41. As a user, I would like to specify the type of cuisine I would like to cook.
42. As a user, I would like to see the ingredients I have inputted.
43. As a user, I would like to know how many ingredients I have inputted.
44. As a user, I would like to see pictures of the ingredients when clicking on options.
45. As a user, I would like to click on the recipe name to see the full recipe.

## **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. Our list of known recipes will be gathered using an API.

### **Usability**

The website should be visually appealing, be easily accessible, and categorized as a food and drink application. 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.