

Planning Document (ITR0):
KeepFresh
Group 8

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Vision Statement:

The KeepFresh will be an online website that helps users keep track of their personalized food items' expiry dates and information. This system will allow users to add their food items with the expiry date, and then notify the user based on which items will be expiring soon, so as not waste food and eat food that's fresh. Furthermore, any food you add can be accompanied by nutritional information for you to keep track of.

However, that's not all. We want to provide the best experience for our customers, and that's why we are willing to add more to make the site more efficient and usable. The food items can be sorted by expiry date (along with the notifications) so that users can also see what food items need urgent care. There will also be a Search and Filter attribute for users to search for their items or filter their items based on certain criteria. Furthermore, users can choose their notification settings based on what date before the expiry date, do they want to get notified. These customizable features bring value and care to our project. Other additional features we plan on adding are recommendations for different food items based on the users' frequent choices, and also group features where multiple users can share the same food items.

This system will also be well secured, requiring only signed-up users to use the website features and proper authentication systems to ensure privacy. Notifications and other unique system features will be well tested and maintained to avoid inconvenience.

This project has its value in helping our busy customers, ensuring they save money by not wasting food, and ensuring they are up to date with what is fresh and what is expired in their fridge. A lot of other projects with this goal don't make it personalized enough for the user. Hence, they list many popular food items and label them with

how long they are normally fresh for. However, our personalized system will make it such that only the user's personal items will be stored, resulting in better organization and a cleaner.

For a successful project, we will identify it by using the reviews of our customers. Since our customer is busy, if they are satisfied with our product and state that it has helped them save money, time and also keep track of their groceries without manually having to check the expiry date on all items, then the project will be a success.

Big User Stories (3-4):

Big User Story 1:

As a user, I want to create an account and log in to access my own food inventory/fridge, which is private, along with my allergies, budget, and preferences. My food inventory/fridge can also be accessed by other people I choose to share with.

Reasoning:

This covers signup, login, unique user information (what they are allergic to, budget preferences), and creates personal “fridges” that can be accessed by the user and whoever they want to invite (family, roommates)

Priority: High, Cost: 8 days

Big User Story 2:

As a user, I want to be able to add, delete, and edit my own food items, while also adding my additional information, including expiration dates, nutrition info, and even notes, so that I can maintain a personalized list and track what I have in my fridge and when it expires.

Reasoning:

This covers users being able to have their own “fridge”/food inventory, in which they can add information like expiration dates, nutritional facts (macros), and optional notes if they want. This flexibility also enables users to add any type of food, including custom items (homemade, store-specific foods, takeout, etc).

Priority: High, Cost: 8 days

Big User Story 3:

As a user, I want to be notified before my items expire (I want to be able to choose when I get reminders), so that I can eat my food while it is still good

Reasoning:

This covers notifications and allows users to set their own reminder timing (personalization)

Priority: High, Cost: 5 days

Big User Story 4:

As a user, I want to be able to get shopping recommendations based on my shopping history, or what I have in the fridge, so I can plan purchases more easily and avoid buying unnecessary items.

Reasoning:

This covers uniqueness requirements, and recommends based on inventory + history to help grocery planning/shopping, which prevents overbuying and supports user goals (if they set a calorie goal/fitness goal, if they have an abundance of a certain sort of food system can recommend variety.)

Priority: High, Cost: 10 days

ITR1 Detailed User Stories (5-6):**Detailed User Story 1:**

Create User Accounts: As a user I want to be able to create my own account in a secure way

Priority: High, Cost: 1 day

Detailed User Story 2:

Login as a User: As a user, I want to be able to securely log in to my account

Priority: High, Cost: 1 day

Detailed User Story 3:

Add and Delete Items: As a user, I want to be able to add food items as well as delete any items I want

Priority: High, Cost: 2 days

Detailed User Story 4:

Add Expiry Dates: As a user, I want to be able to add the expiry date to each food item that I store in my digital fridge

Priority: High, Cost: 2 days

Detailed User Story 5:

Sort the Food Items: As a user, I want to be able to view my food items in order of expiry date, so that I can see what needs to be used up first

Priority: High, Cost: 3 days

Other Iteration Detailed User Stories (5-6 Per ITR):

ITR2 Detailed User Stories:

Detailed User Story 1:

Add Nutrition Info: As a user, I want to be able to add Nutrition Info to the food in my digital fridge, so that I can keep track of what I am eating

Priority: Medium, Cost: 2 days

Detailed User Story 2:

Get Notified of Expiry Dates: As a user, I want to be able to know with notifications of what items are going to expire soon, so that I can easily track what needs to be finished first

Priority: High, Cost: 3 days

Detailed User Story 3:

Keep Track of Budget: As a user, I want to be able to keep track of the total cost of food in my digital fridge so I can know how much I am spending

Priority: Low, Cost: 2 days

Detailed User Story 4:

Add Personal Notes: As a user, I want to be able to have a section where I can save notes on my food choices and other key aspects to have my thoughts organized

Priority: Medium, Cost: 2 days

Detailed User Story 5:

Edit Food Items: As a user, I want to be able to edit the information of my food items without having to delete and re-add them to the list

Priority: Medium, Cost: 3 days

ITR3 Detailed User Stories:

Detailed User Story 1:

Track Allergies: As a user, I want to be able to add my allergies to the system, so that it can track what types of foods I should try and avoid

Priority: Medium, Cost: 3 days

Detailed User Story 2:

Choose Notification Timing: As a user, I want to be able to choose how early, compared to the expiry date I want to get notified, so that I can be well prepared.

Priority: High, Cost: 2 days

Detailed User Story 3:

Set Favourites: As a user, I want to be able to add certain food items that I get often, into my favourites categories so that I don't have to re-add it every time.

Priority: High, Cost: 4 days

Detailed User Story 4:

Get Recommendations: As a user, I want to be able to get recommendations based on certain food items that are bought often or in my favourites category.

Priority: Low, Cost: 5 days

Detailed User Story 5:

Family Storage: As a user, I want to be able to add other people to my digital fridge so that they can also edit and view the information there.

Priority: Low, Cost: 5 days

****Due to Privacy Reasons, the video is not on the Public GitHub and instead will be submitted with the rest of the deliverables for Deliverable 1****