

ExpireMeNot

Team #7

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ExpireMeNot

ExpireMeNot is an app designed to help users reduce food waste in their homes by providing tools to better organise, track, and utilise the items in their kitchen pantries, fridges, and freezers. This digital assistant aims to bring efficiency and sustainability to everyday food management.

The program serves as a kitchen inventory manager. It allows users to add, remove, and monitor food items across different storage locations. It is equipped with features like a calendar view, virtual location view, colour-coded expiration tracking, and recipe recommendations based on available ingredients.

This tool is planned for a wide range of users, from busy families to students to individuals living alone, and is especially useful for environmentally conscious individuals looking to reduce food waste and optimise grocery usage. Because everybody's time and mind are usually preoccupied with their daily tasks, like with school and work. Most of the time, they are not thinking about shelf life of their products. As such, the application will help organize and keep track of it for them. It also helps save time with planning on what to use with food items, and especially expiring food items by presenting to the user with recipes that use those food items so that they do not need to do research and find the recipes themselves.

ExpireMeNot addresses the critical issue of food wastage, a global concern with significant environmental and economic implications. By providing an efficient means of tracking and utilising food items before they expire, ExpireMeNot helps reduce waste, save money, and promote sustainable living practices. Additionally, it aids in meal planning and grocery shopping, making the process more efficient and less time-consuming.

The app will be considered successful if surveys of users show they are throwing away less spoiled food after using ExpireMeNot. We aim for users to reduce their household food waste by 15-40%. Environmental impact will also be measured by tracking the reduction of organic material entering landfills from users' homes.

To achieve our goal, ExpireMeNot will be equipped with many systems to help users in tracking their products and which products will soon expire. We plan on implementing warnings on the app to notify the user of any products that are going bad. For example, there will be a calendar view to present to the user on which days specifically their products expect to go bad. As well, users will be able to sort their products in many ways, one of which being sorting by expiration date to see what items are going to expire the soonest.

Overall user stories (Both big and detailed ones):

Iteration 1:

Big Story Description: Initialise Fridge/Pantry With items

Goal of user: The user should start being able to managing their virtual fridge

Priority: High

Cost: 14 Days

User Stories:

Create Fridge

Priority: Med

Cost: 0.5 Days

1. I should be able to create a new fridge/pantry and give it a specific name. This will help me keep track of what pantry space I'm managing.

Add Items

Priority: High

Cost: 2 Days

2. I should be able to add whatever food item I want to my virtual pantry. This will help me know what I currently have available.

Remove Items From Pantry

Priority: High

Cost: 2 Days

3. I'd like to also be able to remove items from the pantry, if I no longer have it available. When foods are consumed or expired, I would need to be able to stop tracking them.

Tagging Food Groups

Priority: Med

Cost: 2 Days

4. I want to tag each food based on their food groups. I.e Fruits, Vegetables, Grains, Proteins and Dairy. This will be useful to know the composition of food items in the pantry.

Add User

Priority: Med

Cost: 2 Days

5. I want to have my family members to be able to manage the food they don't want to share, and to be able to see which item belongs to whom.

See Full List of Items

Priority: High

Cost: 2 Days

6. I want to see all the food items that are currently located in my pantry. I should be able to determine what foods I still have without needing to be at home.

Iteration 2:

Pantry Awareness (This big story aims to help the user make more informed decisions about what is in their pantry, by developing the virtual fridge)

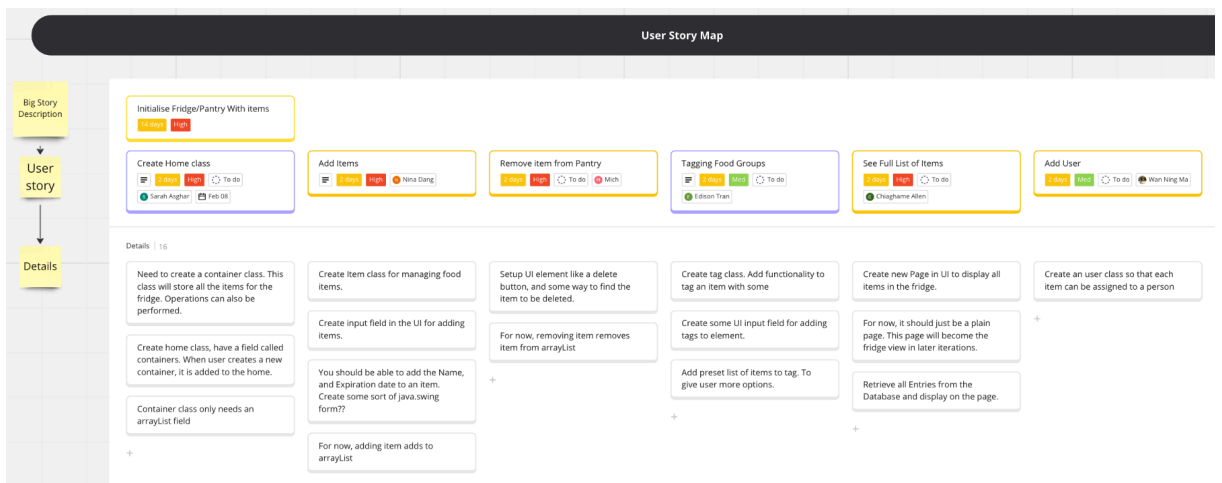
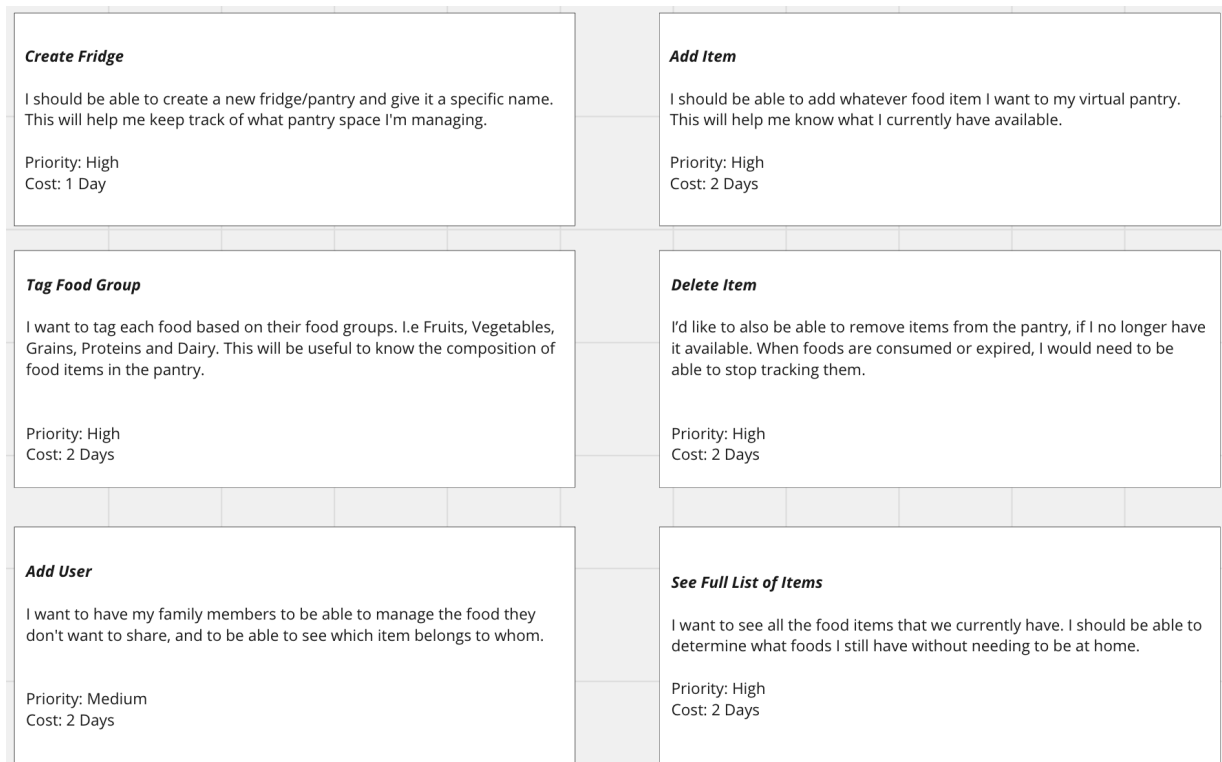
- Colour coded fridge items
- Detailed Virtual Fridge UI
- View all expiration dates in chronological order.
- Calendar view of expiration dates
- Sort foods by group.
- Add to grocery list feature
- Edit grocery list

Iteration 3:

Research and Analytics (The point of this big story is to provide the user with information they need about their pantry, which foods tend to spoil quickly, and start offering some ways to utilise fridge items)

- Support for recipes (based on available ingredients)
- 'Star' recipes
- Get reminders if starred recipes ingredients are low
- Editable System Settings (for reminders (what should you get reminded for), Customize parts of UI)
- Reminders about upcoming expiration dates.
- Log in System (for different users)

Iteration 1 detailed user stories:



Miro View Link: https://miro.com/app/board/uXjVNvII-FM=?share_link_id=150674584264