

CPSC 304 Project Cover Page

Milestone #: 3

Date: 26 July 2024

Group Number: 37

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

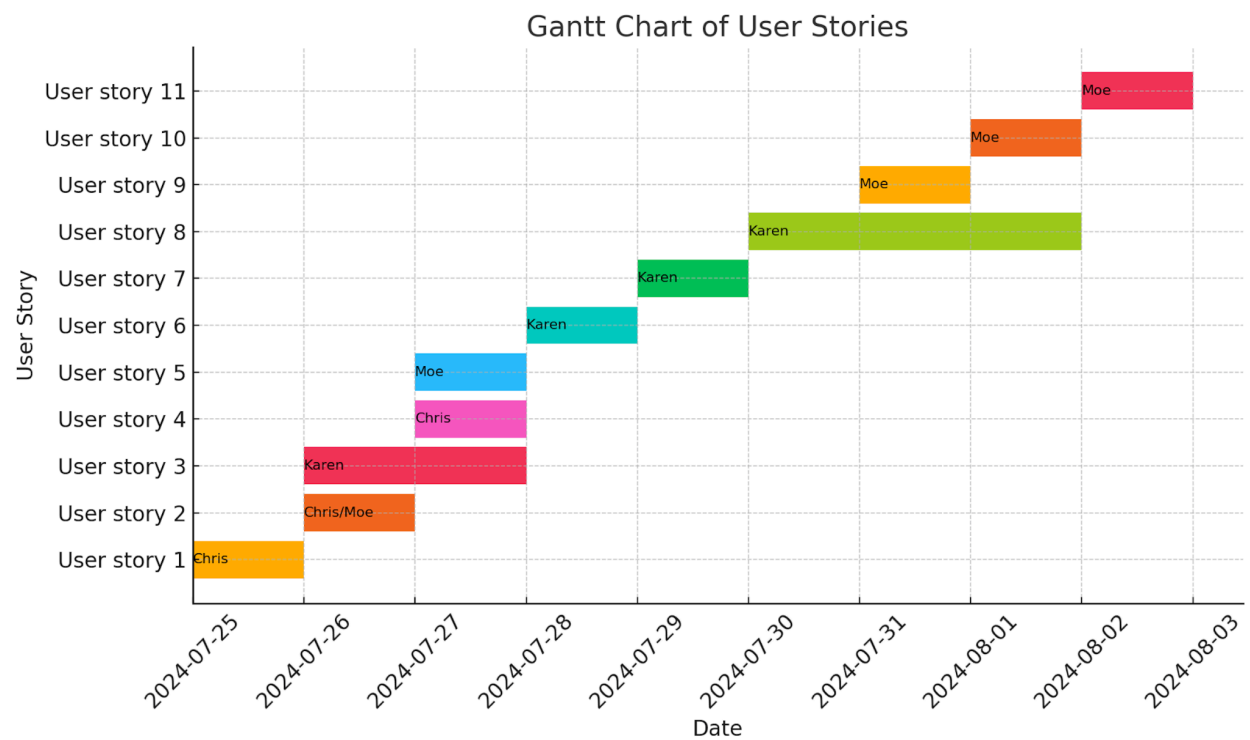
In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

Project Summary

Our project is centered around culinary management and grocery planning. The main goal is to help users streamline their cooking activities by keeping track of their household food supplies, identifying exciting new recipes that make the best use of their household inventories, finding nearby grocery stores, and allowing them to contribute recipes towards an online community of like-minded others.

Timeline and Task Breakdown/Assignment

We have broken off this section into user/developer stories, with each story decomposed further into separate tasks. Please refer to the Gantt chart for an illustrated breakdown of the time we anticipate spending on each specific task.



User story 1 (Chris):

As a developer, I want to create the frontend infrastructure so that my application can display information gleaned from my oracle database and support user actions (e.g., insert and delete operations) made to that database.

Tasks:

- Install Next.js and necessary dependencies (e.g., mantine for components). Set up project structure to handle page routing.

Deadline: 26 July

User story 2 (Chris/Moe):

As a developer, I want to create the backend infrastructure so that my application can support an oracle database populated with my relational schema, the server necessary to carry out commands on that oracle database, and connect my frontend app to the database.

Tasks:

- Create database schemas and tables in Oracle Database as per our ER diagram
- Set up the project structure, including folder organization for API endpoints, functions for parsing, and set up routing between frontend and backend.

Deadline: 27 July

User story 3 (Karen):

As a user, I want to create a new profile, select my existing profile, or amend an existing profile so that I can access the culinary database using my own personalized profile.

Tasks:

- Create API endpoint to POST new user information into user relation
- Create API endpoint to PUT new user information to change existing user
- Create frontend UI components to accept user inputs with respect to user location, e-mail information, etc.
- Create frontend UI components to allow user to select an existing user

Deadline: 28 July

User story 4 (Chris):

As a contributor, I want to create a new recipe so that I can contribute my culinary experiences to the broader online community.

Tasks:

- Create API endpoint to POST new recipe into recipe relation
- Create API endpoint to GET relation containing recipes
- Create frontend UI components to accept user inputs with respect to the recipe's steps, associated images, ingredients, etc.
- Create frontend UI components to display recipes

Deadline: 28 July

User story 5 (Moe):

As a user, I want to see the list of steps and ingredients in a recipe so I can follow them and create something delicious for my next meal.

Tasks:

- Create API to GET the steps associated with a recipe
- Create API to GET the ingredients associated with a recipe along with their quantities
- Create frontend UI to display the steps sequentially in a recipe
- Create frontend UI to display the ingredients

Deadline: 28 July

User story 6 (Karen):

As a user, I want to view the images associated with a recipe so I can determine if the meal is appetizing enough to try.

Tasks:

- Create API endpoints to GET the URLs of images from a recipe
- Create frontend UI to display the images associated with that recipe

Deadline: 29 July

User story 7 (Karen):

As a user, I want to look at my available pantries so I can see what ingredients I have in store.

Tasks:

- Create API endpoints to GET a saved pantry and retrieve the list of ingredients associated with that pantry
- Create frontend UI to display those ingredients in that pantry

Deadline: 30 July

User story 8 (Karen):

As a user, I want to compare which ingredients I have in my pantry with the ingredients needed by a recipe so I can determine whether I have the ingredients sufficient to complete that recipe

Tasks:

- Create API endpoints to perform necessary join operations on pantry ingredient and recipe ingredient relations
- Update frontend UI to use alternative formatting where ingredients in pantry are insufficient (e.g. bolded or grayed-out font)

Deadline: 2 Aug

User story 9 (Moe):

As a contributor, I want to earn points for my contributions so that I feel recognized and motivated to share more recipes.

Tasks:

- Create API endpoint to PUT likes associated with recipe into relation storing recipe likes
- Create API endpoint to PUT points into user's accumulated points and to update their corresponding level

Deadline: 1 Aug

User story 10 (Moe):

As a contributor, I want to edit a recipe I have previously created to improve aspects like the clarity of its instructions and the quality and quantity of its images, etc.

Tasks:

- Create API endpoints to PUT new images into and DELETE them from the recipe's images relations
- Create API endpoints to PUT and DELETE steps from the recipe's steps relations
- Create API endpoints to PUT and DELETE ingredients from the recipe's ingredients relations

Deadline: 2 Aug

User story 11 (Moe):

As a user, I want to set different location associated with my profile (e.g. workplace, home) so I can further personalize my profile.

Tasks:

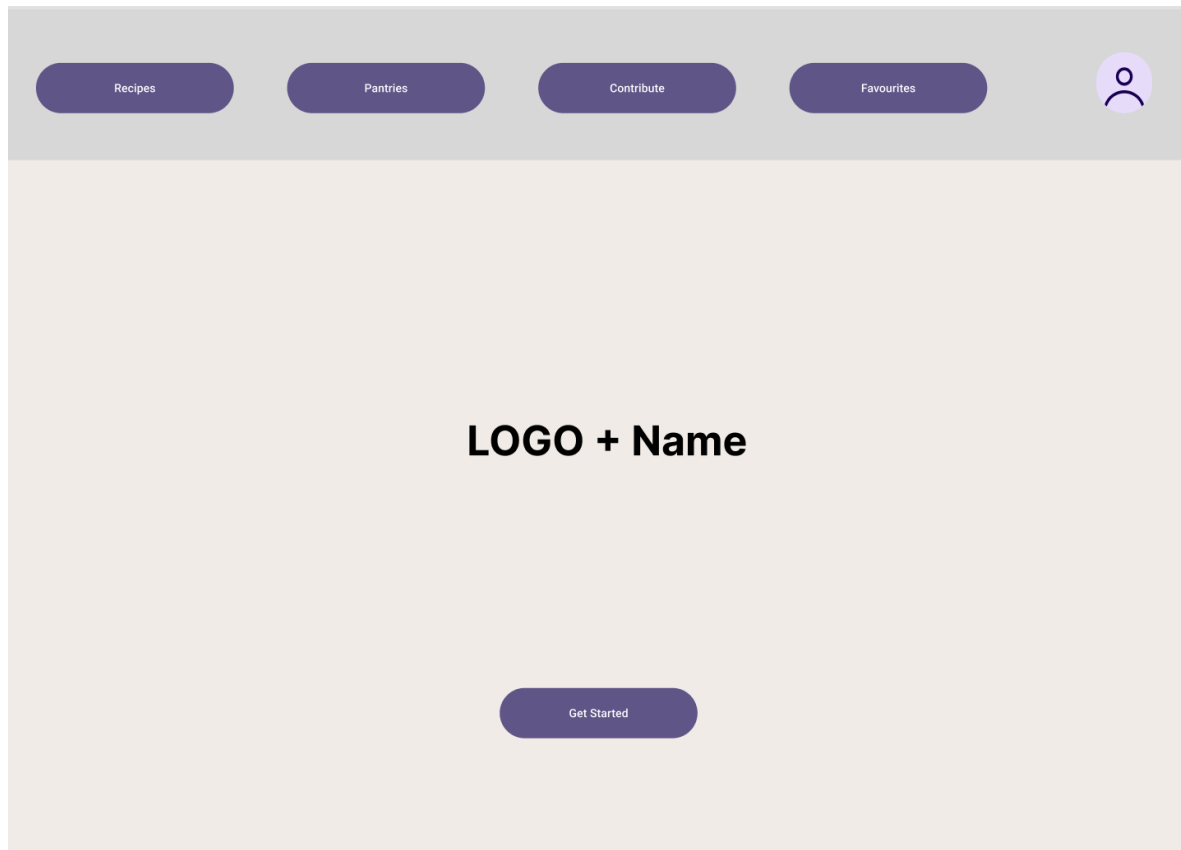
- Create API endpoints to POST new location connected to user onto locations relation
- Create API endpoints to GET the user's associated locations
- Create frontend UI to accept user inputs relating to location (e.g. street address) and to display the user's location information when prompted

Deadline: 3 Aug

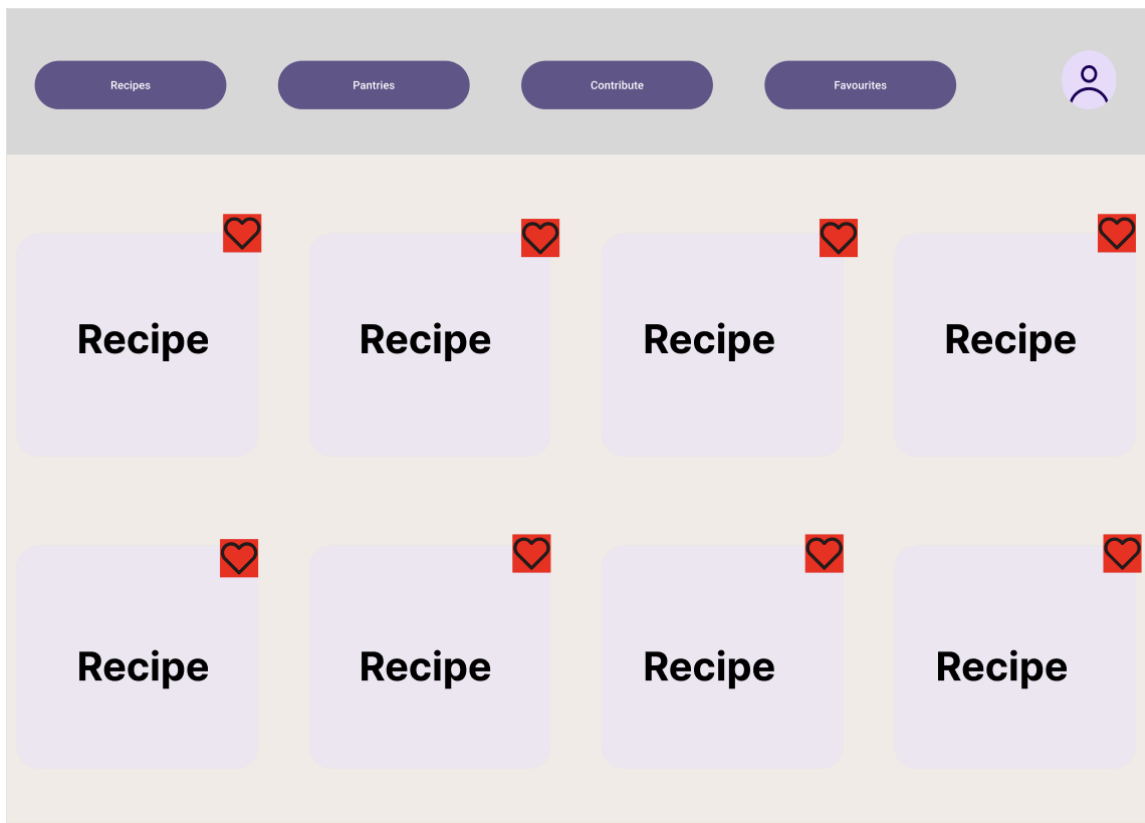
Challenges and Tasks Remaining

We have created our frontend development environment (React/Next.js with Mantine components), and are in the process of creating and populating the Oracle database we will use in our app. Our present challenges mostly relate to the time constraints in place, as it will be difficult meeting the one week turnaround time between our project meeting and the deadline for the project implementation to be completed. Nevertheless, we are fully committed to meeting the deadlines for all project deliverables, and look forward to discussing with our project mentor the limitations of our project and the achievability of our tasks.

UI Mockup



Front page



List of recipes page