



Sprint 1 Retrospective Document

Team 9

Carmen Del Mastro

Kendalyn Freuhauf

Jiahui Huang

Mahima Malhotra

Sarah Wagler

What went well?

In general, our team members communicated very well throughout the entirety of the sprint and everyone always attended team meetings. Our scrum master organized frequent meetings and enhanced communication between members. Whenever a member had an issue working on their user story, other members were quick to help out. We were able to finish all of our user stories and meet all the acceptance criteria due to the fact that we collaborated well and helped each other debug.

Additionally, although none of us had significant experience in software development, we were able to eventually get over some learning curves to achieve our goals. We became more familiar with Next.js and MongoDB, and created a good foundation in terms of functionality that will help make future tasks easier.

User Story #1

As a user, I would like to be able to sign up for an account.

#	Description	Estimated Time	Owner
1	Create UI page to input sign up information for a new account	3 hours	Jiahui
2	Check if username is taken	1 hour	Jiahui
3	Check if the password meets security requirements	1 hour	Jiahui
4	Create routes and store new user into database	3 hours	Jiahui
Total:		8 hours	

Completed:

The UI to sign up as a user by inputting a unique username and a password which meets the security requirements. Then, the user's default information, including said username, password, and default display name, is stored in the database as well as in localStorage within the browser. After signing up, the user is routed to their homepage.

User Story #2

As a user, I would like to be able to login to my account.

#	Description	Estimated Time	Owner
1	Create a UI page to log into an existing account	3 hours	Carmen
2	Route to sign up page if user does not have an existing account	1 hour	Carmen
3	Create login methods to log in the user given the correct credentials	3 hours	Carmen
4	Generate an error message if the credentials are incorrect	1 hours	Carmen
Total:		8 hours	

Completed:

When the user enters a correct username and password, they are directed to their home page. An error is given if the credentials are incorrect. The user can click a link to the sign up page if they do not have an account.

User Story #3

As a user, I would like to be able to reset my account password.

#	Description	Estimated Time	Owner
1	Create a UI page to reset account password	3 hours	Jiahui
2	Check if old password is valid	1 hour	Jiahui
3	Check if new password meets security requirements and is different from old password	2 hour	Jiahui
4	Change password in database	1 hours	Jiahui
Total:		7 hours	

Completed:

Created the UI where the user inputs their old and new password in order to reset the password. If the passwords pass a series of checks, the new password replaces the old in the database. The checks that the user input must pass include inputting the correct old password, a new password different from the old password, and a new password that meets the established security requirements. After resetting the password, the user is routed back to the edit profile page

User Story #4

As a user, I would like to be able to logout.

#	Description	Estimated Time	Owner
1	Create UI to confirm whether or not the user wants to logout	2 hours	Carmen
2	Create routes to remove the logged in user	2 hours	Carmen
Total:		4 hours	

Completed:

From the user's profile icon, they can choose to sign out of their account. If they sign out, they are redirected to the login page and their user data is removed from local storage. If they decline logging out, they remain on the original page.

User Story #5

As a user, I would like to be able to view my profile page.

#	Description	Estimated Time	Owner
1	Create UI for profile dropdown	2 hours	Sarah
2	Connect profile dropdown buttons to correct pages and actions	1 hour	Sarah
3	Create UI for profile page showing user's information	2 hours	Sarah
4	Display user's friends	2 hours	Sarah
5	Display user's friend requests	2 hours	Sarah
6	Block space off for future profile addends	2 hours	Sarah
7	Create routes to pull profile information from database	2 hours	Sarah
Total:		13 hours	

Completed:

When the user presses on the profile picture in the top right corner, a drop-down appears with options to view profile, dietary restrictions, or to log out. All options route to their appropriate pages. When view profile is clicked, the user is taken to their profile page. On their profile page, the user can see their profile picture, display name, username, a list of their friends, a list of their friend requests, and a tab navigation to choose between viewing their created recipes, saved recipes, reviewed recipes, and meal plans.

User Story #6

As a user, I would like to be able to edit my profile page.

#	Description	Estimated Time	Owner
1	Create UI to edit profile information	2 hours	Sarah
2	Create toggles to change privacy options for profile components	2 hours	Sarah
3	Create routes and change profile info from database	2 hours	Sarah
4	Create button to delete account	1 hour	Sarah
5	Create popup UI to confirm deletion of account	2 hours	Sarah
6	Create function to remove friendship from all friends	2 hours	Sarah
7	Create function to check privacy of created recipes to determine deletion	2 hours	Sarah
8	Create function to delete all user information	2 hours	Sarah
Total:		15 hours	

Completed:

On the profile page, there is an edit profile button that routes the user to the edit profile page. On the edit profile page, the user can upload a photo as their profile picture. If there is already a picture uploaded, the user can delete the photo and upload another one. The user can also see a text field with their current display name which they can edit. There are also four privacy dropdowns, one for each created recipes, saved recipes, reviewed recipes, and meal plans. The user can choose for each whether they want those items to be viewable by anyone who clicks on their profile, only their friends, or nobody. They can then press the save button to save all changes.

User Story #7

As a user, I would like to be able to add/remove friends.

#	Description	Estimated Time	Owner
1	Route to accept friend requests.	2 hours	Sarah
3	Create UI to add friends	3 hours	Kendalyn
4	Route to search users by username or display name	4 hours	Kendalyn
5	Create confirmation UI to remove friend	2 hours	Kendalyn

#	Description	Estimated Time	Owner
6	Route to add/remove friendship from database	3 hours	Kendalyn
Total:		14 hours	

Completed:

When a user is on the friends page, they are able to search for other users by their username or display name. If there is a user with the username or display name searched, then the accounts will come up with the option to request. When the user clicks “request”, the other user will get a friend request found in their profile with the option to accept or deny. When accept is selected, the friend is added to their friends list and vice versa. When deny is selected, the friend request is removed. Back in the friends page, if a user has friends then they have the option to remove them. When a user clicks on remove, their friend is removed from their friend list and vice versa.

User Story #9

As a user, I would like to be able to see the ingredients and nutrition facts of a recipe.

#	Description	Estimated Time	Owner
1	Web scrape recipe data and add to database	10 hours 5 hours (each)	Kendalyn, Mahima
2	Create a UI to display list of recipes on homepage	4 hours	Mahima
3	Create UI to view ingredients of a recipe	2 hours	Mahima
4	Create UI for view nutrition facts of a recipe	3 hours	Carmen
5	Create route to pull ingredient information	2 hours	Mahima
6	Create route to pull nutrition facts	2 hours	Kendalyn
Total:		23 hours	

Completed:

When the user clicks on a specific recipe, they are directed to a page that has all of the recipe’s information. They can see the list of ingredients which include quantity and measurements, as well as a table with nutrition information.

User Story #10

As a user, I would like to be able to see the steps in making the recipe.

#	Description	Estimated Time	Owner
1	Create a UI for a recipe that displays the steps in making the recipe.	3 hours	Carmen
2	Create routing to pull recipe steps	2 hours	Carmen
Total:		5 hours	

Completed:

When the user clicks on a recipe, the recipe steps are displayed.

User Story #11

As a user, I would like to be able to edit my “fridge” (owned food).

#	Description	Estimated Time	Owner
1	Implement method to remove ingredients from fridge	2 hours	Mahima
2	Create search bar for adding ingredients to fridge	1 hour	Mahima
3	Create method to search database for ingredients	2 hours	Mahima
4	Creating routes to edit the fridge	2 hours	Mahima
Total:		7 hours	

Completed:

When the user would like to add an item to their fridge, they can choose a custom category or category that they already have made to add the ingredient to, and searching for an item allows for them to add ingredients that are in the ingredient database, as well as custom ones.

User Story #12

As a user, I would like to be able to view my “fridge”.

#	Description	Estimated Time	Owner
1	Create navigation bar with a button to route to user’s fridge	2 hours	Mahima
2	Create UI to view ingredients in fridge	3 hours	Jiahui
3	Create search for appliances within kitchen	2 hours	Kendalyn

#	Description	Estimated Time	Owner
4	Create UI to separate ingredients by food groups	3 hours	Mahima
5	Create customizable food groups	3 hours	Mahima
6	Route to retrieve user fridge data	2 hours	Mahima
Total:		15 hours	

Completed:

When the user views their fridge, they see the items in their fridge in the custom categories they have named as well as in a list format. They can also search their fridge for ingredients which will highlight owned ingredients.

User Story #13

As a user, I would like to be able to edit my “kitchen” (owned equipment).

#	Description	Estimated Time	Owner
1	Create UI to add/remove appliances	2 hours	Jiahui
2	Create method to search database for appliances	2 hours	Jiahui
3	Route to change appliances in kitchen	2 hours	Jiahui
Total:		6 hours	

Completed:

The user can use the UI to edit the list of their owned appliances by deleted appliances already in the list or use the autocomplete search bar to add appliances in the database. When a change, either addition or deletion, is made to the list of owned appliances, the list is changed in the database under user specific information as well as in localStorage.

User Story #14

As a user, I would like to be able to view my “kitchen”.

#	Description	Estimated Time	Owner
1	Create UI to view owned appliances	2 hours	Jiahui
2	Create search for appliances within kitchen	2 hours	Jiahui
3	Route to retrieve owned appliances	2 hours	Jiahui

#	Description	Estimated Time	Owner
Total:		6 hours	

Completed:

The user can view their appliances as a list displayed in the UI. Using the search bar, the user can search to see if they have an appliance and if the name searched and the name of an appliance owned match, the name searched will be highlighted in green within the displayed list.

User Story #15

As a user, I would like to be able to edit my dietary restrictions/preferences.

#	Description	Estimated Time	Owner
1	Create UI to view dietary restrictions / preferences	3 hours	Carmen
2	Route to retrieve dietary restrictions / preferences from database	2 hours	Carmen
3	Create UI to edit dietary restrictions / preferences	3 hours	Carmen
4	Route to change dietary restrictions / preferences from database	2 hours	Carmen
Total:		10 hours	

Completed:

From the user's profile icon, they can choose to view their dietary restrictions. When they click this option, they are directed to a page where they can add dietary restrictions from a drop down. They can also choose to remove any restrictions, and the database updates accordingly.

What did not go well?

General

- The amount of hours required for many tasks were drastically underestimated
 - Starting this project, our team did not have a lot of experience in creating a web application from scratch. Therefore, while we tried to give our best estimates for tasks, the majority of us still spent over thirty hours working on this sprint due to learning curves and errors that made tasks take longer than expected. While our team did not procrastinate, this overestimation had us fixing issues up until the deadline.
- Our focus on functionality led to poorly written code
 - Many errors were encountered when writing API's and storing the user's data in local storage. When a solution was found, instead of spending time cleaning up our code so it was more readable, we had to focus our time finishing other tasks. This led to errors when other members implemented different features that used similar functionality. In the future, we will have to redesign how some code is written to improve readability.
- The UI in certain areas could look better
 - There was a large learning curve in learning how to write API's and web scrape data. Therefore, the focus of the sprint was on functionality in the back-end instead of making the UI look super aesthetically pleasing. This may result in user stories in the future that focus on UI improvements.
- Limitations in web scraping
 - While over 1,000 recipes were web scraped from allrecipes.com, an error during the process was encountered that prevented us from web scraping all the recipes from the website. Therefore, future investigation will be required to fully populate our database with recipes.

User Story #8

As a user, I would like to be able to view my friend's profiles.

#	Description	Estimated Time	Owner
1	Create UI to view a friend's profile from search or friend list	3 hours	Kendalyn
2	Only display components that are publicly available	3 hours	Kendalyn
3	Route to retrieve user's privacy settings	2 hour	Kendalyn
4	Route to retrieve friends' user profile data	1 hour	Kendalyn
Total:		9 hours	

- Given that the user has friends, when the user clicks on a friend's profile, they can be taken to that friend's profile page.

- Given that the user is looking at a friend's profile, they can view the subjects that that friend has set to "friends only" or "public"
- Given that the user is looking at a friend's profile, they cannot view the subjects that that friend has set to "private".

Did not get to this user story and will have to be added in the next sprint. A lot of time was lost in the first two weeks due to a personal issue and was not able to catch up in time to complete this story's acceptance criteria.

How should we improve?

A primary point of improvement for our group would be to spend more time on estimating time for our Sprint Planning. This sprint, our estimations were drastically underestimated since we didn't account for the learning curve, and while we were able to complete all of our tasks, the code behind the tasks is in need of a lot of refactoring and the UIs are not as user friendly as we would have hoped. Therefore, by using the knowledge we have from this past sprint, we will improve our task estimation times to allow for debugging time and time to develop an improved user experience in relation to what has been already developed.

An additional point of improvement is also to have more meetings that are designated work time. Last sprint, we had one day that was a designated work time, and two other days where we would do a short stand up meeting. Additionally, whenever someone was running into a bug they couldn't solve, they would send a message in the group chat and typically someone would arrange to meet with them to solve the issue. While this did result in us having strong communication throughout the sprint, we found that on the day that we all were coding together, time spent debugging was dramatically lower since any time there was a bug or an error message, the individual running into the issue could simply mention it and anybody who was familiar with it would be able to work with them to solve it fairly quickly. This resulted in more instantaneous support of each other, and also allowed for those working together to have greater familiarity with each other's portions of the code, further improving everybody's knowledge base. Therefore, next sprint, we plan to designate more days to sit together and work on our individual tasks.