



Sprint 3 Planning Document

Team 9

Carmen Del Mastro

Kendalyn Freuhauf

Jiahui Huang

Mahima Malhotra

Sarah Wagler

Sprint Overview:

In our final sprint, we will be focusing on implementing critical user functionality. For example, the user will be able to search for recipes and filter their results based on various criteria. They will also be recommended recipes based on their owned ingredients, which is one of the main purposes of our web application. Additionally, we will be implementing some other less critical but nevertheless useful features, such as allowing the user to create a meal plan and share a fridge with other members of their household. We will continue to improve upon our UI to make the web application more aesthetically pleasing and useful to the user.

Scrum Master: Sarah Wagler

Meeting Plan: Sundays @ 6pm, Mondays @ 8:30pm, Thursdays @ 7:30pm

Risks and Challenges:

Going into this sprint, there are still 15 user stories left to complete on top of ensuring the project is robust and complete in every aspect. A challenge we may face is finding time to go back to every UI and ensuring consistency and efficiency. Another challenge will be learning how to unit test the backend of our web application, since last sprint we mainly focused on testing the frontend.

A risk we are facing in this last sprint is completing all of our searching and filtering stories. Since these tasks are mostly new to us, they may take longer to complete and the code may not be as refined.

Current Sprint Detail

User Story #1

As a user, I would like to be able to see notifications of shared recipes and new friends.

#	Description	Estimated Time	Owner
1	Add notification field to users and route	2 hrs	Kendalyn
2	Create UI for viewing notifications	2 hrs	Kendalyn
3	Add indicator for new notifications	1 hr	Kendalyn
4	Route from notification UI to viewing the page to manage it	1 hr	Kendalyn
5	Unit Tests	4 hrs	Kendalyn
Total:		10 hrs	

Acceptance Criteria:

- Given that a user has a notification, there will be an indicator on the notification icon, signaling that there is a new notification for them.
- Given that a user clicks on the notification button, they can view messages stating that they have a new friend request or shared recipe.
- Given that a user clicks on a message, they will be taken to the page where they can view or manage that shared recipe or friend request.

User Story #2

As a user, I would like to manage my “household”.

#	Description	Estimated Time	Owner
1	Create UI to create household	2 hrs	Jiahui
2	Create UI to add friend to household	2 hrs	Jiahui
3	Create UI to leave a household	2 hrs	Jiahui
4	Check criteria to add friend to household	1 hrs	Jiahui
5	Create routes to manage household in database	2 hrs	Jiahui
6	Unit tests	3 hrs	Jiahui
Total:		12 hrs	

Acceptance Criteria:

- Given that a user is on the households page, the user can create a new household.
- Given that a user has a friend, that friend can be added to a shared household.
- Given that a user's friend is in a household, the friend cannot be added to the same household twice.
- Given that a user has multiple households, a friend can be added to each multiple households as long as they are not already a member of a particular household.
- Given that a user is part of a household, the user can leave the household.

User Story #3

As a user of a part of a household, I want to see which recipes my household has favorited.

#	Description	Estimated Time	Owner
1	Create UI to save recipe to a household	2 hr	Mahima
2	Implement routing to save recipe to a household	2 hr	Mahima
3	Modify UI of saved recipes to implement with household	2 hrs	Mahima
4	Unit Tests	3 hrs	Mahima
Total:		9 hrs	

Acceptance Criteria:

- Given that the user chooses the button to save a recipe to a household, they can choose a household to save the recipe to (if the user is part of multiple households).
- Given that the user is viewing their household's saved recipes, they will be able to view all recipes saved to the household.
- Given that the user chooses the unsave button on a recipe from their household's saved recipe view, the recipe will be removed from the household's saved recipes.

User Story #4

As a user of a part of a household, I would like to differentiate between shared fridge items and my own fridge items.

#	Description	Estimated Time	Owner
1	Implement UI to view fridge in household	1 hr	Jiahui
2	Edit the existing fridge component	3 hrs	Jiahui
3	Unit tests	4 hrs	Jiahui

#	Description	Estimated Time	Owner
Total:		8 hrs	

Acceptance Criteria:

- Given that the user is on the household page, the user can view the household's ingredients in the household fridge section.
- Given that multiple users are part of the same household, every user in the household will see the same shared ingredients in the household fridge page.
- Given that the user has ingredients in their individual fridge that are not in the shared household fridge, those ingredients will not appear in the shared fridge

User Story #5

As a user, I would like to be recommended recipes based on my fridge..

#	Description	Estimated Time	Owner
1	Create route to get recipes that correspond to fridge items	4 hrs	Mahima
2	Implement pagination on the homepage view	2 hrs	Mahima
3	Display results as default homepage	2 hr	Mahima
4	Unit Tests	3 hrs	Mahima
Total:		11 hrs	

Acceptance Criteria:

- Given that the user has ingredients in their fridge, the homepage of recipes will display recipes that have matched ingredients in the user's fridge.
- Given that the user changes the contents of their fridge, the homepage will update with better matches.
- Given that the user is on the homepage of recipes and there are multiple pages of recipes, the user can view other pages of recipes.

User Story #6

As a user, I would like to be able to search for recipes.

#	Description	Estimated Time	Owner
1	Create UI for searching for a recipe	2 hrs	Carmen
2	Route to homepage when user searches for a recipe	1 hr	Carmen

#	Description	Estimated Time	Owner
3	Create routing for searching for a recipe	4 hrs	Carmen
4	Display search results on homepage	2 hrs	Carmen
5	Unit tests	3 hrs	Carmen
Total:		12 hrs	

Acceptance Criteria:

- Given that the user searches for a recipe and they are not on the homepage, they will be directed to the homepage and the results of their query will be shown there.
- Given that the search has results, information about the recipes will be shown on the homepage.
- Given that the search does not have any results, no recipes will be shown on the homepage and the user will be alerted by an error.

User Story #7

As a user, I would like to be able to search for specific food recipes which include ingredients from my fridge.

#	Description	Estimated Time	Owner
1	Create route to search a specific item that corresponds to fridge items	3 hrs	Mahima
2	Display results in order of relevance	3 hrs	Mahima
3	Unit Tests	4 hrs	Mahima
Total:		10 hrs	

Acceptance Criteria:

- Given that the user chooses to search with the fridge filter, the user will see recipes that correspond to their search and have matches to contents of their fridge.
- Given that the user is on the search bar, they have the option to search recipes in relation to their fridge's contents.
- Given that the search has no results, the user will be notified that no recipes match their search and fridge contents.

User Story #8

As a user, I would like to filter based off the recipe's tagged dietary restrictions

#	Description	Estimated Time	Owner
1	Add UI to search bar that allows the user to select recipe dietary restrictions to filter by	2 hrs	Carmen
2	Create routing to filter recipes based off of selected dietary restrictions	4 hrs	Carmen
3	Unit tests	2 hrs	Carmen
Total:		8 hrs	

Acceptance Criteria:

- On the search bar, the user has the option to select dietary restrictions to filter recipes by.
- Given that the search has results, recipes that are tagged with the selected dietary restrictions will be shown.
- Given that the search does not have any results, the user will be alerted that there are no recipes tagged with the submitted dietary restrictions.

User Story #9

As a user, I would like to filter based off of my own dietary preferences

#	Description	Estimated Time	Owner
1	Add UI to search bar to allow the user to filter recipe's based on their saved dietary restrictions	2 hrs	Carmen
2	Create routing to filter recipes based off of their dietary preferences	4 hrs	Carmen
3	Adjust routing to be able to filter based off of multiple selected options	2 hrs	Carmen
4	Unit tests	2 hrs	Carmen
Total:		10 hrs	

Acceptance Criteria:

- Given that the user is on the search bar, they have the option to filter recipes based on their saved dietary preferences.
- Given a successful search, recipes that have the same tags as the user's preferences will be shown.
- Given an unsuccessful search, the user will be alerted that there are no recipes that match their dietary preferences.

User Story #10

As a user, I would like to be able to plan my meals for the week by adding them to a weekly meal plan.

#	Description	Estimated Time	Owner
1	Create button to add a recipe to a meal plan	1 hrs	Sarah
2	Create a UI to specify options for adding the recipe to a meal plan	2 hrs	Sarah
3	Create routes to update a meal plan	1 hrs	Sarah
4	Unit tests	2 hrs	Sarah
Total:		6 hours	

Acceptance Criteria:

- Given that the user views a recipe, the user can click on a button to add the recipe to a meal plan.
- Given that the user clicks the button to add a recipe to their meal plan, the user can choose which meal plan to add it to.
- Given that the user clicks the button to add a recipe to their meal plan and specifies which meal plan, the user can specify which day of the week to add the recipe to.

User Story #11

As a user, I would like to view and edit my meals planned for the week.

#	Description	Estimated Time	Owner
1	Create a weekly meal plan UI	3 hrs	Sarah
2	Create routes to pull meal plan from database	1 hr	Sarah
3	Create components to list recipes on a specific day of the week plan	2 hrs	Sarah
4	Implement functionality of deleting a recipe from meal plan	2 hrs	Sarah
5	Implement functionality of changing the day a recipe is planned for	2 hrs	Sarah
6	Create route to recipe page on click	1 hrs	Sarah
7	Unit tests	3 hrs	Sarah

#	Description	Estimated Time	Owner
Total:		14 hours	

Acceptance Criteria:

- Given that the user navigates to a meal plan, the user is able to see a 7-day calendar.
- Given that the user navigates to a meal plan, the user is able to see the recipes that they added to the meal plan under the day that they had specified it to be added to.
- Given that the user has a recipe under a certain day of the week in their meal plan, they can change the day that the recipe is under.
- Given that the user has a recipe listed under any day of their meal plan, they can delete the recipe from the meal plan.
- Given that the user clicks on a recipe under their meal plan, the user is taken to the recipe page.

User Story #12

As a user, I would like to manage my various meal plans.

#	Description	Estimated Time	Owner
1	Create UI to add a new meal plan	2 hrs	Sarah
2	Create functionality to choose current meal plan	2 hrs	Sarah
3	Create routes to pull all meal plans from database	1 hr	Sarah
4	Create functionality to switch which meal plan is being viewed	2 hrs	Sarah
5	Unit tests	3 hrs	Sarah
Total:		10 hrs	

Acceptance Criteria:

- Given that the user chooses to add a recipe to a meal plan, the user can create a new meal plan to add the recipe to.
- Given that the user chooses to add a recipe to a new meal plan, the user can specify a name for their meal plan and choose which day of the week to add the recipe to.
- Given that the user navigates to the meal plans page, the user sees their current meal plan as well as a list of other meal plans.
- Given that the user has multiple meal plans, they can specify which meal plan is their current meal plan.
- Given that the user has multiple meal plans, they can click on a noncurrent meal plan to view the details and edit the meal plan.

User Story #13

As a user, I would like to be able to add planned meal ingredients to my grocery list, based upon fridge contents or disregarding fridge contents.

#	Description	Estimated Time	Owner
1	Create UI to add ingredients to shopping list	1 hr	Jiahui
2	Edit existing shopping list UI	2 hrs	Jiahui
3	Edit existing add from recipe UI	2 hrs	Jiahui
4	Route to add ingredients to database	2 hrs	Jiahui
5	Unit tests	3 hrs	Jiahui
Total:		10 hrs	

Acceptance Criteria:

- Given that ingredients in the meal plan are already owned in the user's fridge, the user can choose to still add those recipe ingredients into their to the shopping list
- Given that the user is adding to their shopping list based off of their meal plan, the correct ingredients will be added to the shopping list based off of whether they choose to add owned ingredients.
- Given that ingredients of the meal plan are already listed in the shopping list, those ingredients will not be added and listed again.

User Story #14

As a user, I would like to be able to define my nutrition goals for the day/week.

#	Description	Estimated Time	Owner
1	Create UI for inputting nutrition goals	3 hrs	Kendalyn
2	Routing and creating fields within users	3 hr	Kendalyn
3	Unit Testing	4 hrs	Kendalyn
Total:		10 hrs	

Acceptance Criteria:

- Given the user has created a meal plan, they can add goals for fields such as protein, carbohydrates, etc.
- Given the user has added a goal, they can specify the amount (of protein, carbohydrates, etc.) with an upper and lower bound.
- Given the user has added a goal, they can add comments to their goal so they remember

what the goal was trying to accomplish in the future.

User Story #15

As a user, I would like to be able to view/visualize how my meal plan accomplishes my nutrition goals.

#	Description	Estimated Time	Owner
1	Create UI that compares the goals and the meal plans information.	3 hrs	Kendalyn
2	Create visualization of the goal	2 hrs	Kendalyn
3	Display the amount the meal plan has vs the goal	1 hr	Kendalyn
4	Unit Tests	4 hrs	Kendalyn
Total		10 hrs	

Acceptance Criteria:

- Given the user has created goals for that week, they can see if their meal plan is meeting these goals or not.
- Given the user views a goal, they can see the specific amount (of protein, carbohydrates, etc.) they are short/over for that goal.
- Given the user views a goal, they can see the amount (of protein, carbohydrates, etc.) they will have planned for each day of the week.

Remaining Backlog:

Functional:

Account

- ~~1) As a user, I would like to be able to sign up for an account.~~
- ~~2) As a user, I would like to be able to login to my account.~~
- ~~3) As a user, I would like to be able to reset my account password.~~
- ~~4) As a user, I would like to be able to logout.~~

Recipe interactions

- ~~5) As a user, I would like to be able to save recipes.~~
- ~~6) As a user, I would like to be able to organize recipes into customizable folders.~~
- ~~7) As a user, I would like to be able to create recipes.~~
- ~~8) As a user, I would like to be able to view my saved recipes and recipes I have created.~~

Ingredient Interactions

- ~~9) As a user, I would like to be able to add ingredients to the ingredient database.~~
- ~~10) As a user, I would like to be able to pull ingredients from the database when creating a recipe.~~
- ~~11) As a user, I would like to be recommended possible substitute ingredients.~~
- ~~12) As a user, I would like to be able to tag ingredients as vegetarian, vegan, gluten-free, or by other allergens.~~
- ~~13) As a user, I would like to tag recipes based on dietary restrictions~~

Profile

- ~~14) As a user, I would like to be able to view my profile page.~~
- ~~15) As a user, I would like to be able to edit my profile page.~~

Sharing

- ~~16) As a user, I would like to be able to share recipes with others.~~
- ~~17) As a user, I would like to be able to view my shared recipes~~
- ~~18) As a user, I would like to be able to add/remove friends.~~
- ~~19) As a user, I would like to be able to view my friend's profiles.~~
- ~~20) As a user, I would like to be able to see notifications of shared recipes and new friends.~~
- ~~21) As a user, I would like to manage my "household".~~
- ~~22) As a user of a part of a household, I want to see which recipes my household has favorited.~~
- ~~23) As a user of a part of a household, I would like to differentiate between shared fridge items and my own fridge items.~~

Reviewing Recipes

- ~~24) As a user, I would like to be able to review recipes.~~
- ~~25) As a user, I would like to be able to view a recipe's ratings and reviews.~~
- ~~26) As a user, I would like to be able to view the recipes I have already rated/reviewed.~~

Recipe Details

- ~~27) As a user, I would like to be able to see the ingredients and nutrition facts of a recipe.~~
- ~~28) As a user, I would like to be able to see the steps in making the recipe.~~

Fridge/Kitchen

- ~~29) As a user, I would like to be able to edit my “fridge” (owned food).~~
- ~~30) As a user, I would like to be able to view my “fridge”.~~
- ~~31) As a user, I would like to be able to edit my “kitchen” (owned equipment).~~
- ~~32) As a user, I would like to be able to view my “kitchen”.~~

Filtering

- ~~33) As a user, I would like to be able to edit my dietary restrictions/preferences.~~
- ~~34) As a user, I would like to be able to search for recipes.~~
- ~~35) As a user, I would like to be able to search for specific food recipes which include ingredients from my fridge.~~
- 36) As a user, I would like to be able to search and filter for recipes by various factors such as cuisine and meal type.
- 37) As a user, I would like to be recommended recipes based on my past history of liked/disliked recipes.
- ~~38) As a user, I would like to be recommended recipes based on my fridge.~~
- ~~39) As a user, I would like to filter based off the recipe's tagged dietary restrictions~~
- ~~40) As a user, I would like to filter based off of my own dietary preferences~~
- 41) As a user, I would like to be able to search by event (birthdays, holidays, etc.).

Shopping lists

- ~~42) As a user, I would like to be able to add ingredients to my shopping list.~~
- ~~43) As a user, I would like to edit and combine ingredients in my shopping list.~~
- ~~44) As a user, I would like to be able to view my shopping list.~~

Meal Planning and Nutrition Goals

- ~~45) As a user, I would like to be able to plan my meals for the week by adding them to a weekly meal plan.~~
- ~~46) As a user, I would like to view and edit my meals planned for the week.~~
- ~~47) As a user, I would like to be able to add planned meal ingredients to my grocery list, based upon fridge contents or disregarding fridge contents.~~
- ~~48) As a user, I would like to be able to define my nutrition goals for the day/week.~~
- ~~49) As a user, I would like to be able to view/visualize how my meal plan accomplishes my nutrition goals.~~
- ~~50) As a user, I would like to manage my various meal plans.~~

Non-Functional

1. As a developer, the web application should be viewable on mobile browsers as well.
2. As a developer, the server should be able to handle thousands of users.
3. As a developer, errors in the client and server should be handled smoothly.
4. As a developer, the user should be prevented from adding bad data into the database.
5. As a developer, the UI should be intuitive to the user and aesthetically pleasing.
6. As a developer, setting up a local development environment should be well documented.