



FoodPants

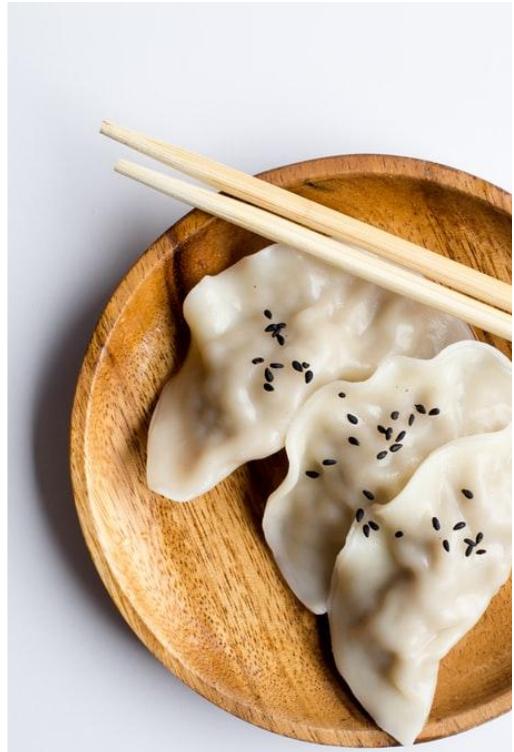
Iteration I



Project Vision

Our team aims to integrate your pantry, recipes, nutritional info, and shopping list into a single application for the ultimate culinary experience.

Many applications currently encompass some of these features, but we aim to provide the entire toolset for digitizing your kitchen.



Requirements

- Maintain digital pantry
- Keep track of nutrition info
- Store recipe database
- Provide a shopping list
- Provide a startup experience
- Keep track of types of food

Requirements (Functional) ...

REQ 1: As a user, I want to update my digital pantry, in order to access and track items later.

REQ 2: As a user, I want to see the nutritional info of my digital pantry, in order to guide my shopping decisions.

REQ 3: As a user, I want to create and be recommended recipes, so that I can decide what to cook.

REQ 4: As a user, I want to create and access a digital shopping list, so that I can track what groceries to purchase.

REQ 5: As a new user, I want to be walked through a setup process so that I can become familiar with the application.

REQ 6: As the system, I want to store foods that have already existed in the pantry, in order to recognize when

+ Add a card

UC 1.1

UC 1.2

UC 1.3

UC 2.1

UC 2.2

UC 2.3

UC 3.1

UC 3.2

UC 3.3

Use C



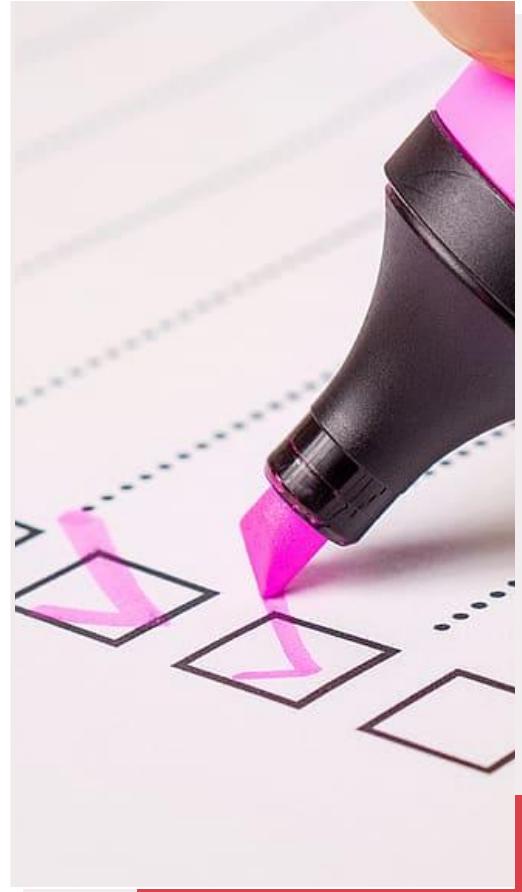
Use Cases

How are we going to actually use this thing?!



Use Cases!

- Manage Pantry
- Search Pantry
- Consume Pantry
- Item
- Manage Nutrition
- Log
- Nutrition Goals
- Nutritional Report
- Create Recipe
- View Recipes
- Add Recipe Items to Shopping List
- Modify Recipe
- Recommend Recipe
- Cook Recipe
- Manage Shopping List
- Export Shopping List
- Mark Purchased Items
- Startup Tutorial
- Manage Food Types
- Create Food Type





Traceability Matrix

Use Case Name	ID	Use Case									
		REQ 1	REQ 2	REQ 3	REQ 4	REQ 5	REQ 6	REQ 7	REQ 8	REQ 9	REQ 10
Manage Pantry	1.1	x						x	x		x
Search Pantry	1.2	x							x		x
Consume Pantry Item	1.3		x						x		x
Manage Nutrition Log	2.1			x				x	x		x
Nutrition Goals	2.2			x					x	x	x
Nutritional Report	2.3			x					x		x
Create Recipe	3.1				x			x	x	x	x
View Recipes	3.2			x				x	x		
Add Recipe Items to Shopping List	3.3			x				x		x	x
Modify Recipe	3.4			x					x		x
Recommend Recipe	3.5			x					x	x	x
Cook Recipe	3.6	x		x					x		x
Manage Shopping List	4.1				x			x	x	x	x
Export Shopping List	4.2				x				x		x
Mark Purchased Items	4.3				x				x		x
Startup Tutorial	5.1	x	x	x	x	x	x	x	x	x	x
Manage Food Types	6.1						x	x	x	x	
Create New Food Type	6.2						x			x	

ID UC 1.1 Manage Pantry

Scope Pantry system

Level User goal

Stakeholders and interests

- **User:** Person interested in managing a digital pantry. Wants the ability to view food items currently in the pantry. Wants the ability to add food items to their pantry. Wants the ability to modify food items in their pantry. Wants the ability to remove food items from their pantry.
- **System maintainer:** Person responsible for application execution. Wants to satisfy customer interests.

Precondition: User has gone through setup process.

Postcondition: Pantry is updated with any user modifications.

Main success scenario:

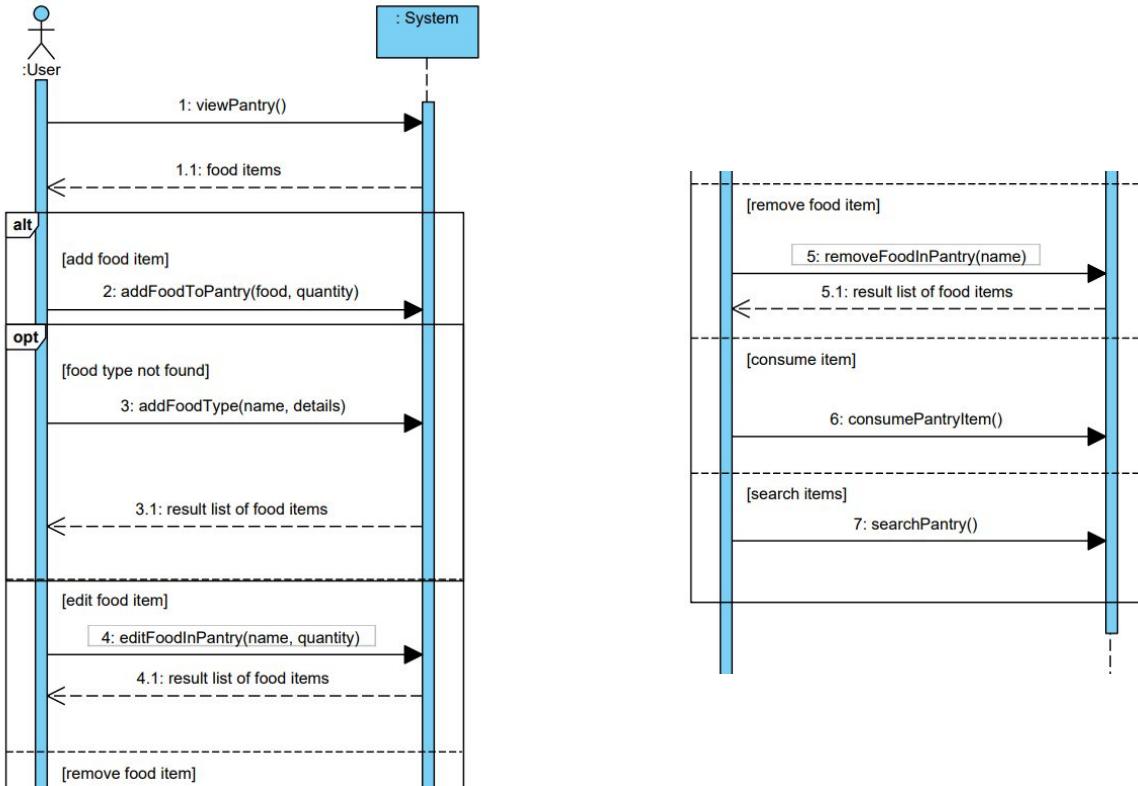
1. User wants to manage pantry.
2. User navigates to the “Pantry” page.
3. System displays a list of all food items in the pantry.
4. User presses the “Add Item” button.
5. User enters the name of the food type to add to pantry in a search box.
6. System displays food type search results in a drop-down menu.
7. User selects the food type to add.
8. User enters the quantity/amount of the food item to add to pantry.
9. System adds food item to pantry.

User repeats steps 4-9 until satisfied with the pantry

Extensions:

Example Use Case: Manage Pantry

SSD: 1.1



ID UC 2.2 Manage Nutrition Goals

Scope Nutrition Log system

Level User goal

Stakeholders and Interests

- **User:** A person utilizing the Nutrition Log system within the FoodPants application to set and manage nutritional goals.
- **System maintainer:** Person responsible for application execution.

Precondition: FoodPants is installed as an executable on the user's machine and the user is currently in their nutrition log.

Postcondition: A nutrition goal has been added, edited, or removed.

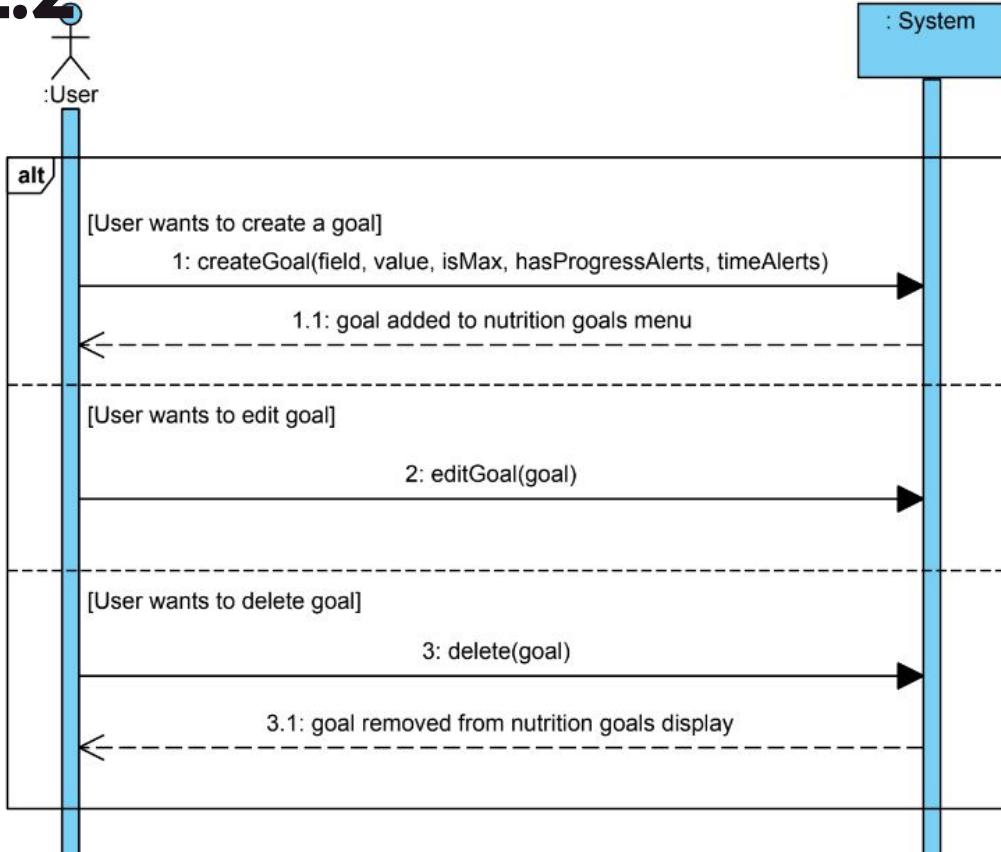
Main success scenario:

1. User wants to manage their nutrition goals
2. User selects the nutrition goals button to navigate to the nutrition goals menu
3. User wants to set a nutrition goal
4. User selects the “+” button and the set nutrition goal menu is displayed
5. User selects the nutrition goal field (calories, carbs, fat, protein, item, cholesterol, sodium)
6. User enters the desired goal value
7. User selects whether the goal is a minimum or a maximum
8. User checks whether they want an alert when nearing their goal
9. User selects time period for time based alerts on goal progress
10. User selects create goal and confirms the creation at the system's prompting

User repeats steps 3-10 until satisfied with the management of their nutrition goals

Example Use Case: Nutrition Goals

SSD: 2.2



ID UC 3.6 Cook Recipe

Scope Recipe system

Level User goal

Stakeholders and Interests

- **User:** Person who has stored recipes and items within the FoodPants digital pantry, wants to use stored items to make a recipe and log the results to their nutrition log.
- **System maintainer:** Person responsible for application execution. Wants to satisfy customer interests.

Precondition: The user has created the recipe within the recipe system, and has decided how much of the recipe they will eat (they can perform this step after cooking if necessary)

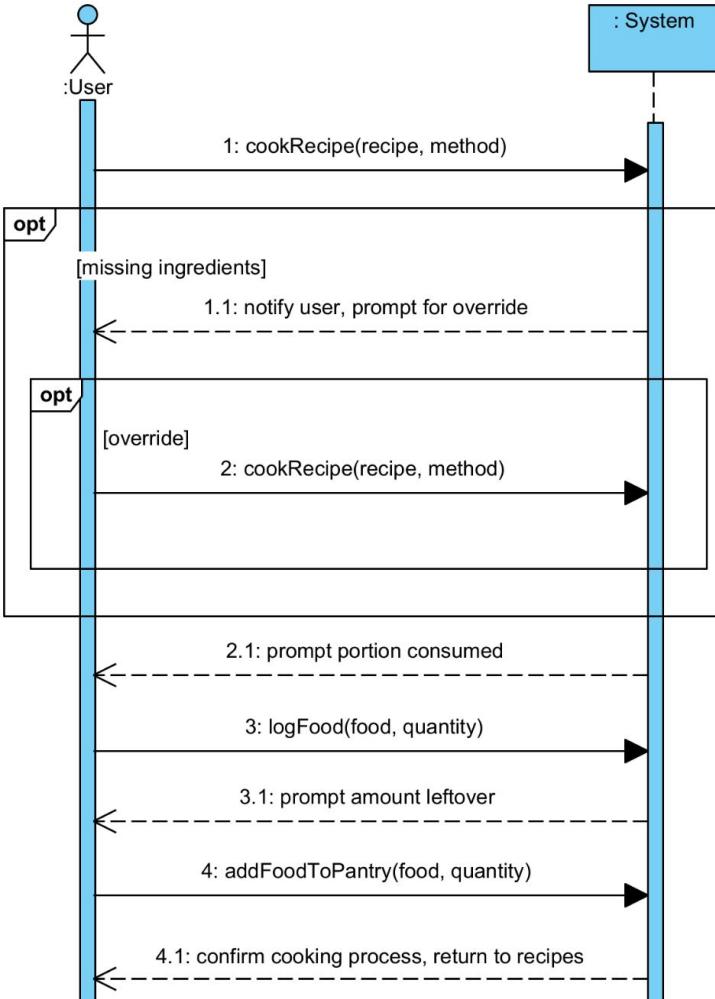
Postcondition: Used items will have been consumed from the user's pantry, and the recipe and nutritional info will be stored in the user's nutrition log.

Main success scenario:

1. The user navigates to the recipe page.
2. User selects desired recipe to produce.
3. User selects to cook the recipe.
4. The system confirms the user's consumption of the recipe.
5. The system removes items from the digital pantry that were used to make the recipe.
6. The User is prompted for how much of the recipe they consumed.
7. The amount of the recipe consumed is added to the nutrition log.
8. include (manageNutritionLog)

Example Use Case: Cook Recipe

SSD: 3.6



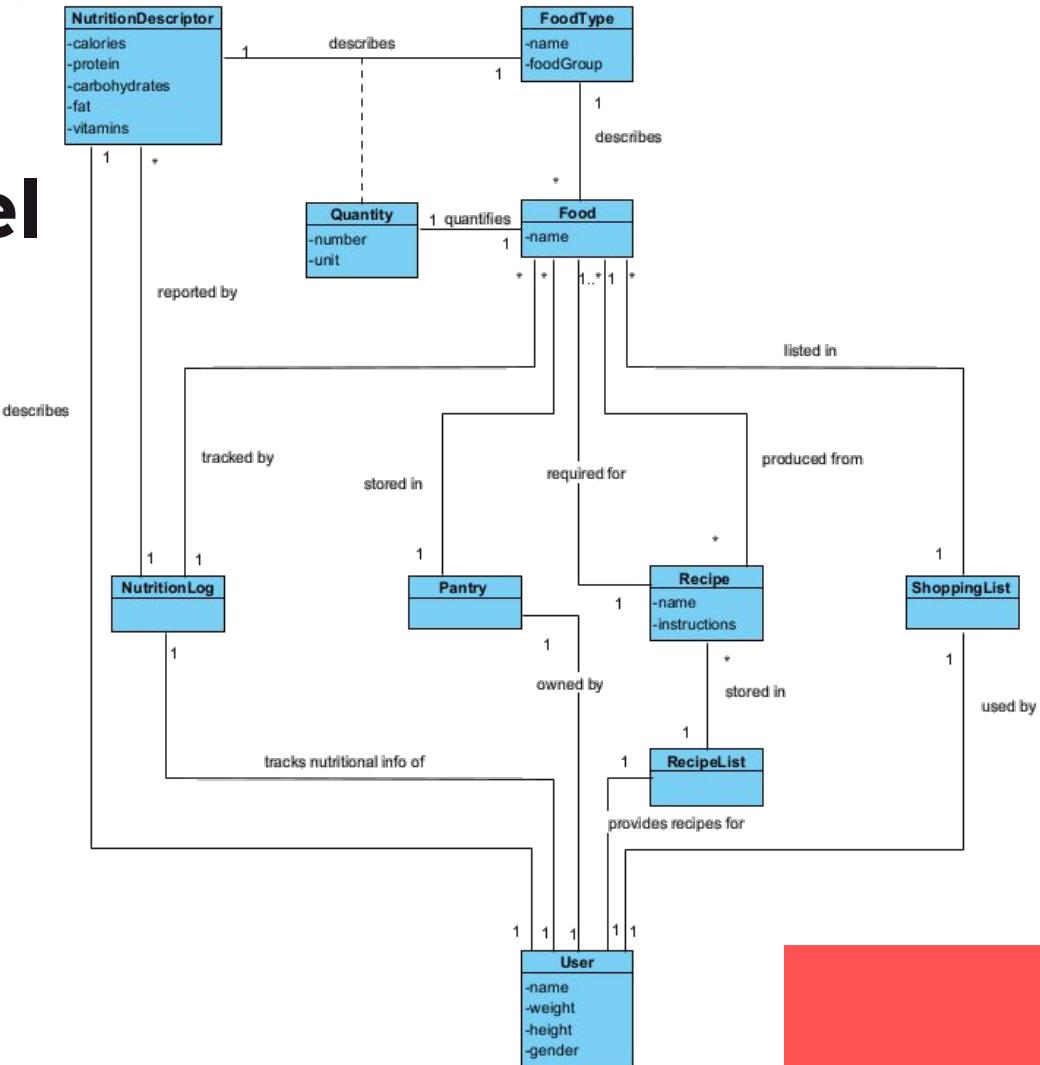


Domain Model

Moving to Concepts...



Domain Model





Wireframes

How will this thing
look?!

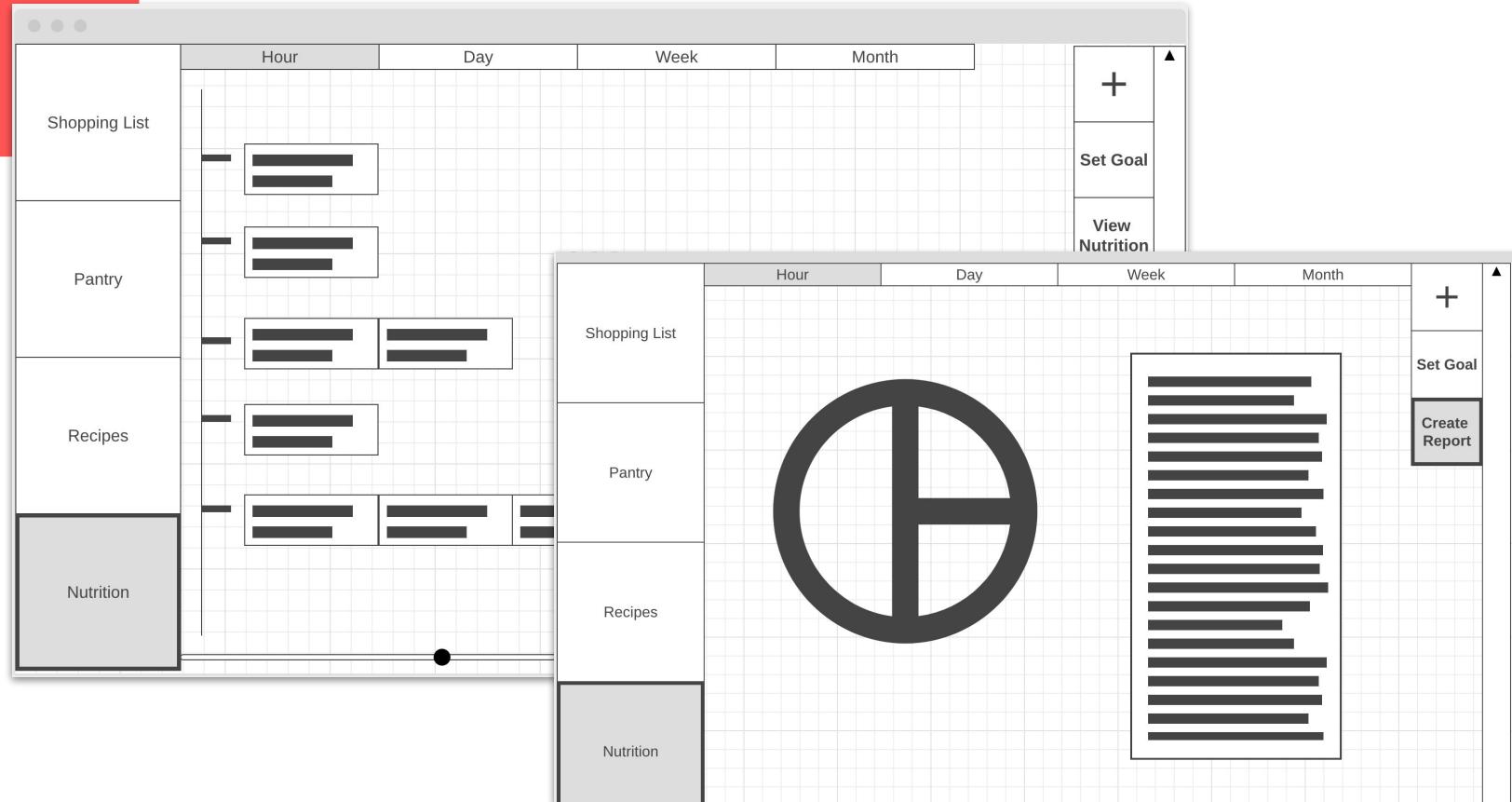


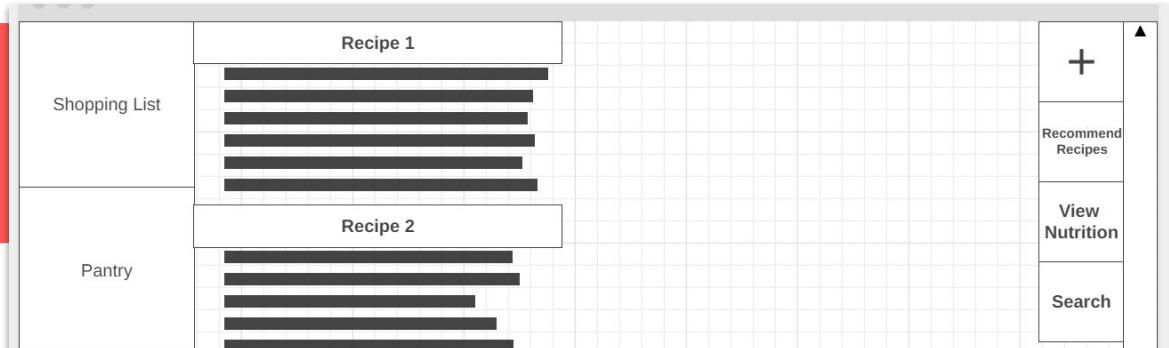
A wireframe diagram of a grocery application interface. On the left, a vertical sidebar contains four categories: "Shopping List" (white), "Pantry" (light gray), "Recipes" (white), and "Nutrition" (white). The main content area features a grid of 10 rows. Each row has a delete icon (cross) in the first column and two input fields in the second and third columns, labeled "Name" and "Quantity". The rows represent items from the Pantry. A vertical toolbar on the right includes a plus sign (+), a pencil icon, and up/down arrows.

	Name	Quantity

X: 250 px

Y: 515 px





Shopping List

Food Item 1

Food Item 2

Food Item 3

Food Item 4

Food Item 5

Food Item 6

Food Item 7

+

Export

Mark All

Shopping List

Pantry

Recipes

Nutrition

Team Distribution

Daniel Luper

- Use Cases
- Domain Modeling
- Git

PJ Wallace

- Use Cases
- Requirement Analysis
- Wireframes

Kurt Wokoek

- Use Cases
- Traceability Matrix
- Reporting

Patrick Harris

- Use Cases
- Issue Tracking
- System Operations

Luka Lelovic

- Use Cases
- Website
- Wireframes

Austin Huizinga

- Use Cases
- Use Case Diagram
- Presentation



85 hours

Tracked via Chronos in Trello



Users	Σ	03 Thu	04 Fri	05 Sat	06 Sun	07 Mon	08 Tue	09 Wed	10 Thu	11 Fri	12 Sat	13 Sun	14 Mon	15 Tue	16 Wed	17 Thu	18 Fri	19 Sat	20 Sun	21 Mon	22 Tue	23 Wed
A Austin_Huizinga1	18h 44m	30m			30m		30m					2h 0m					4h 0m	1h 30m	3h 0m		1h 30m	5h 14m
Daniel Luper	12h 2m																	8h 56m	40m	1h 0m	1h 24m	
Kurt_Wokoek1	13h 10m					30m						2h 0m					3h 19m	2h 35m				4h 46m
Patrick_Harris3	13h 30m					30m						1h 30m				2h 30m	2h 50m			2h 30m		3h 40m
PJ_Wallace1	15h 0m					30m					1h 30m	2h 0m					5h 30m		4h 0m	30m	1h 0m	
Luka_Lelovic1	13h 15m					1h 0m						1h 30m								2h 0m	8h 45m	

Overview

1 Active pull request

5 Active issues

1
Merged pull request

0
Open pull requests

4
Closed issues

1
New issue

Excluding merges, 6 authors have pushed 30 commits to main and 30 commits to all branches. On main, 53 files have changed and there have been 17 additions and 2 deletions.



Git Insights



Q/A

... ? ? ? ? .. ?

Credits

Special thanks to all the people who made and released these awesome resources for free:

- Presentation template by [SlidesCarnival](#)
- Photographs by [Unsplash](#)

