Project Part Two

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Title: Ingredient Tracker

Project Summary: A web application that allows users to keep a digital pantry of ingredients, create and share recipes and search/filter/sort through recipes based on available ingredients and user metrics.

Data Storage: The current design saves all recipes and users to a database and retrieves then all and converts them to objects in memory at the start of the app. It will save them back out to the database on quitting the app. This setup will likely change after further refinement.

Project Requirements:

- Business Requirements: There are no business requirements for this system.
- User Requirements:

User Requirements					
ID	Description	Topic Area	Actor	Priority	
US-001	As a user, I want to sign up with username and password so that I can create profile with persistent data attached	registration	User	Critical	
US-002	As a user, I want to log into my profile so I can access and use the data attached to it	registration	User	Critical	
US-003	As a user, I want to select an ingredient from a list to add to my digital pantry and give it an amount so I can track it	track	User	Critical	
US-004	As a user, I want to type the name of an ingredient to add to my digital pantry and give it an amount so I can track it	track	User	Critical	
US-005	As a user, I want to adjust the amount attached to an ingredient so I reflect a change in how much I have	track	User	Critical	
US-006	As a user, I want to remove an ingredient from my pantry so I can reflect the fact I no longer have it	track	User	Critical	

US-007	As a user, I want to view a list of all recipes so I can see everything possible	list	User	Critical
US-008	As a user, I want to view a list of my favorite recipes so I can find ones I know I like quickly	list	User	High
US-009	As a user, I want to view a list of recipes I've made, so I can find something I remember making before quickly	list	User	High
US-010	As a user, I want to select a specific recipes from a list so I can view it in detail	list	User	Critical
US-011	As a user I want to view only recipes that I already have all the ingredients for so I can find something to make without buying anything	filter	User	High
US-012	As a user, I want to filter to find only canonical recipes so I can find ones I trust to be decent	filter	User	Med
US-013	As a user, I want to filter to find only custom recipes so I can find ones that are new and creative	filter	User	Med
US-014	As a user, I want to search recipes by name so I can find a specific one	filter	User	Med
US-015	As a user, I want to search for recipes by tags so I can find some that fit the general style/mood/theme	filter	User	Med
US-016	As a user, I want to sort a list of all recipes by number of new ingredients needed, so I can find one that won't require me to buy a lot	sort/track	User	High
US-017	As a user, I want to sort a list of all recipes by popularity so I can find good ones quickly	sort	User	Med
US-018	As a user, I want to create and save my own recipes so I and other can find it later	customize	User	High
US-019	As a user, I want to favorite a recipe so that it can be added to a list of favorites	mark	User	Med
US-020	As a user, I want to edit one of my custom recipes so I can improve it or correct some mistake	customize	User	Med
US-021	As a user, I want to unfavorite a recipe so that it can be removed from a list of	mark	User	Med

	favorites			
US-022	As a user, I want to mark a recipes as made so I can have a history of everything I've made	mark	User	Med
US-023	As a user, I want to auto adjust my ingredients after making a recipe so I can effortlessly keep my inventory up to date	track	User	Med
US-024	As a user, I want to generate a shopping list of ingredients I don't have needed for a recipe so I can easily refer to it when shopping	track	User	Med
US-025	As an admin, I want to add some ingredients to the canonical list so users can select from them instead of typing them in	curation	Admin	Low
US-026	As an admin, I want to block user accounts so I can malicious users from posting custom recipes	registration	Admin	Low
US-027	As an admin, I want to create new canonical recipes so users will have more trusted recipes to choose from	customize	Admin	Low
US-028	As an admin, I want to edit a canonical recipe so I can improve it or correct some mistake	customize	Admin	Low

• Non-Functional Requirements:

Non Functional Requirements			
ID	Description	Priority	
NFR-001	Usability : User functionalities are easy to use and user friendly	Critical	
NFR-002	Reliability: The system can not loss any customized recipes	Critical	
NFR-003	Reliability: The system should not leak user information such as password	Critical	
NFR-004	Reliability: The system should not host viruses	Critical	

	Performance : The system should respond	
NFR-005	upon a user request within 10 seconds	High
NFR-006	Performance : User tasks are not time critical	High
	Performances : The system can support more	
NFR-007	than one concurrent users	High
	Implementation: The system supports	
	Chrome, Safari, Firefox, EDGE, etc except	
NFR-008	for really old browsers	High

Use Cases:

Use Case Overview:

- UC 001 -> Signup
- UC 002 -> Login
- UC 003 -> Manage pantry
 - UC 004 -> Add items
 - o UC 005 -> Remove items
 - UC 006 -> Adjust amounts
- UC 007 -> Find a recipe
 - o UC 008 -> Filter recipes
 - Canonical
 - Custom
 - String match
 - Tag match
 - No new ingredients
 - UC 009 -> Sort recipes
 - # of ingredients
 - Rating
- UC 010 -> Manage custom recipes
 - UC 011 -> Create recipe
 - o UC 012 -> Edit recipe
- UC 013 -> Manage favorites
 - UC 014 -> View favorites
 - o UC 015 -> Add recipe to favorites
 - UC 016 -> Remove recipe from favorites
- UC 017 -> Manage history
 - UC 018 -> View history
 - o UC 019 -> Mark recipe as made

- UC 020 -> Remove recipe from history
- UC 021 -> Get a shopping list to make recipe
 - UC 007 -> Find a recipe(same use case as UC-007)

Admin

- UC 002 -> Login(same use case as UC-002)
- UC 022 -> Manage canonical recipes
 - UC 023 -> Edit canonical recipe
 - o UC 024 -> Create canonical recipe
- UC 025 -> Manage canonical ingredients
 - UC 026 -> Add ingredient
- UC 027 -> Manage users
 - UC 028 -> View list of all users w/ their custom recipes
 - Block user

Use Case Diagram:

User Requirement ID#:

UC-001 -> US-001

UC-002 -> US-002

UC-004 -> US-003, US-004

UC-005 -> US-006

UC-006 -> US-005, US-023

UC-007 -> US-007, US010

UC-008 -> US-011, US-012, US-013, US-014, US-015

UC-009 -> US-016, US-017

UC-011 -> US-018

UC-012 -> US-020

UC-014 -> US-008

UC-015 -> US-019

UC-016 -> US-021

UC-018 -> US-009

UC-019 -> US-022

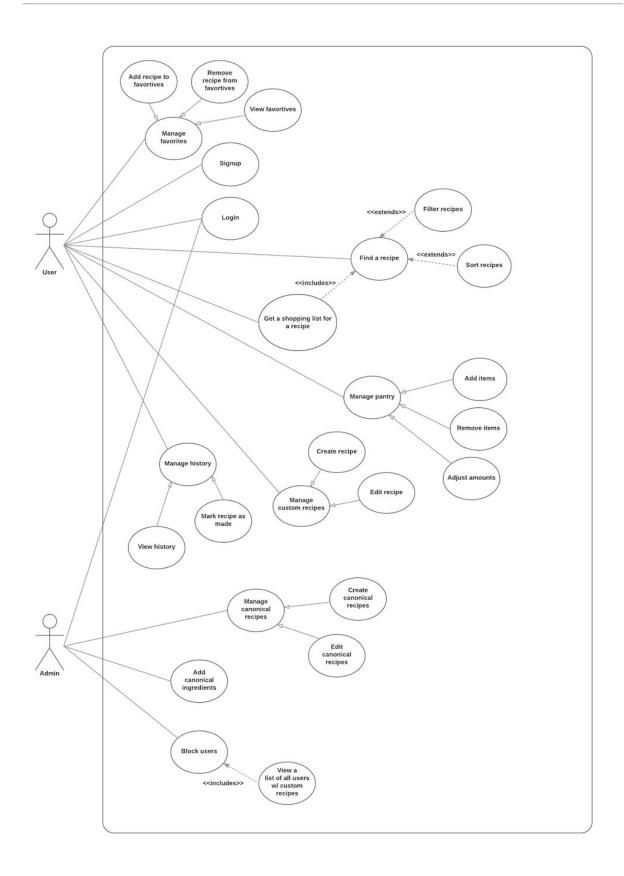
UC-021 -> US-024

UC-024 -> US-027

UC-025 -> US-028

UC-026 -> US-025

UC-028 -> US-026



Use Case Documents:

Use Case ID:	UC-	004			
Use Case Name:	Add items into Pantry				
Description:	Use	rs view their digital pantry, add ingr	edients into their pantry.		
Actors:	Use	r			
Pre-conditions:	Use	r must be signed up and logged in			
Post-conditions:	Ingre	edient is added into the pantry.			
Frequency of Use:	Daily-weekly (any time a user buys ingredients, cooks)				
		Actor Action	System Response		
	1	Click on "My Pantry"	Display pantry view		
	2	Click on "add"	Display ingredient dialogue box		
	3	Type an ingredient name, amount, click "confirm"	Dialogue box closes, ingredient is added the with amount		
	3	Select ingredient from list, type amount, click "confirm"	Dialogue box closes, ingredient is added to list with amount		
Variations:	3	clicks "cancel"	Dialogue box closes		
Exceptions:					
Developer Notes:					

Use Case ID:	UC-007				
Use Case Name:	Find a recipe (specialized to find via filter)				
Description:	Usei	can find recipes by filtering based	on a keyword		
Actors:	Usei	rs			
Pre-conditions:	Use	r has signed up and logged in the s	ystem.		
Post-conditions:	User is viewing the recipe. User can add the recipe to Favorites and History or create a shopping list				
Frequency of Use:	Daily-weekly (Per the needs of the users)				
		Actor Action	System Response		
	1	Click the "Find Recipe" button on main menu	Display search view: a page with filters of checkboxes, text fields and sort buttons		
	Add search conditions using the keyword field and click Search Display list of recipes that contain in their title			contain the keyword	
Click on the recipe title to view the details of the recipe		Display the entire recipe			
Flow of Events:					
	Add search conditions using the checkbox and click Search button.				
Variations:	2. Add search conditions using the sort buttons and click Search button				
Exceptions:					
Developer Notes:	Depending on the filters chosen, it would be valid to display no results. Event 2 might happen any number of times.				

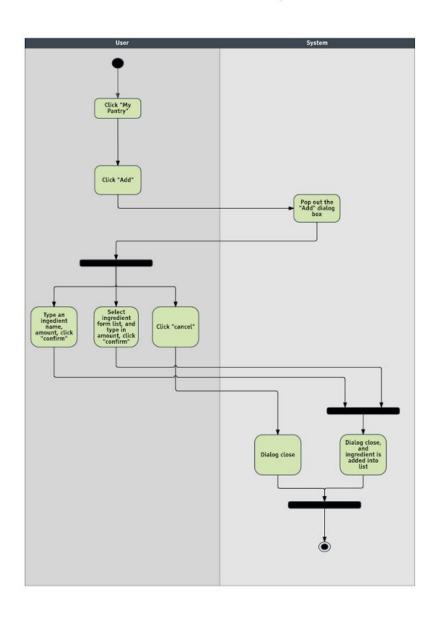
Activity Diagram:

Requirement ID#: US-003, US-004

Use Case ID#: UC-004

Use Case Name: Add items into pantry

Use Case 004: Add items into Pantry

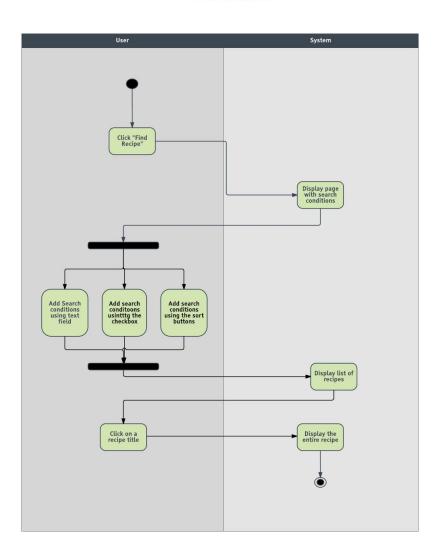


User Requirements ID#: US-010

Use Case ID#: UC-007

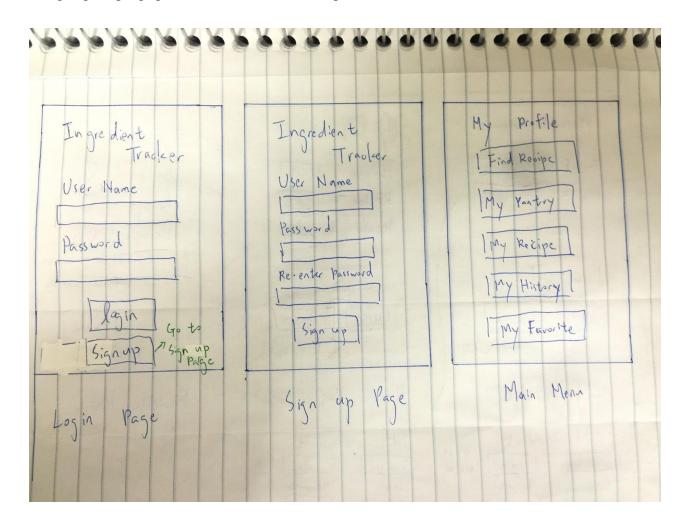
Use Case Name: Find a Recipe.

UC-007: Find A Recipe

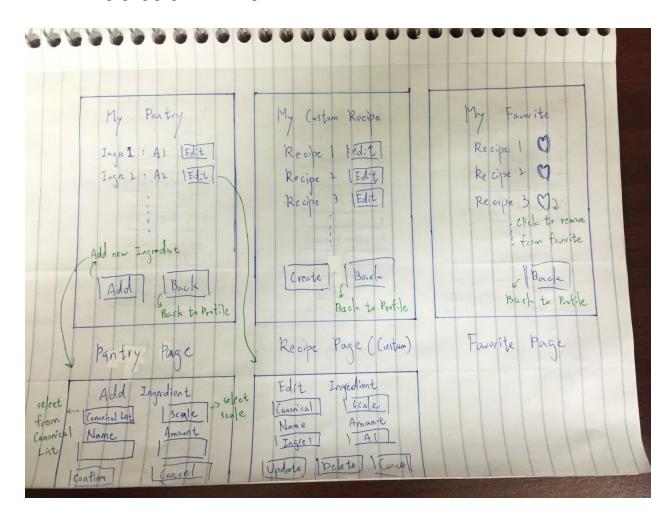


UI Mockups:

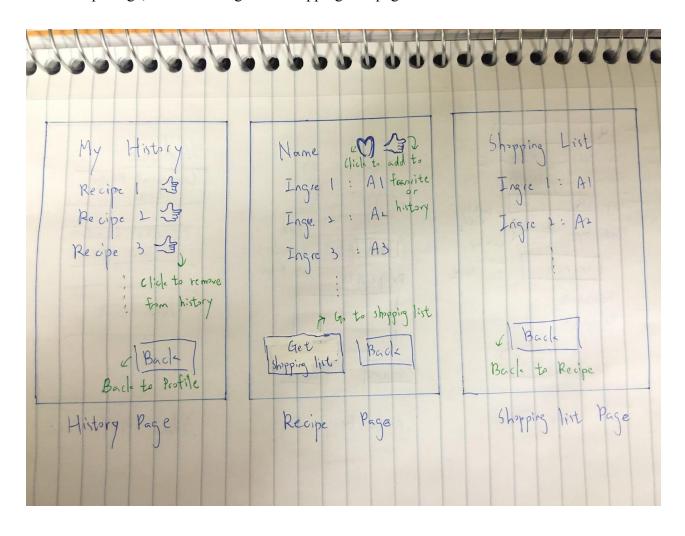
1. SignUp-Login page-Main menu after User login



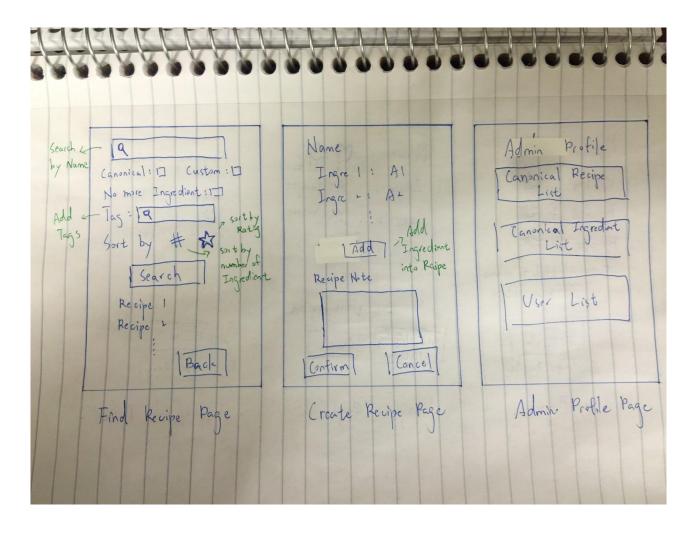
2. From Main menu, User can navigate to Find Recipe, My Pantry, My Recipe Click Add, a pop up page of Add Ingredient. User can add ingredients.(UC-004) Click Edit, a pop up page of Edit Ingredient



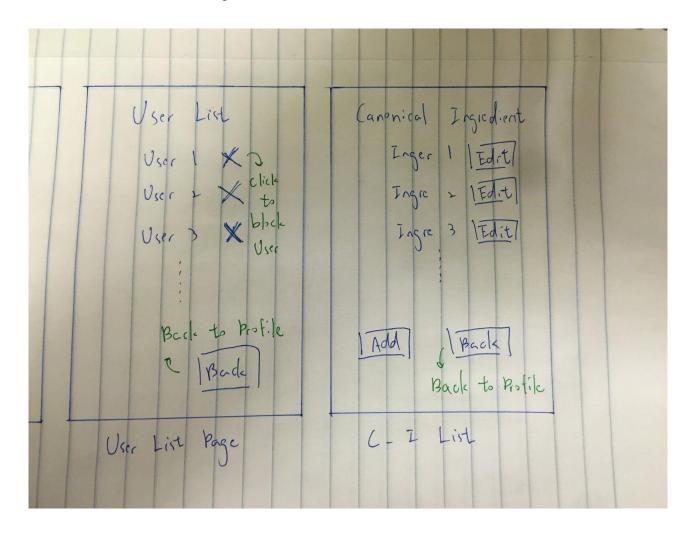
3. From Main Menu, User can navigate to My History. From Recipe Page, user can navigate to Shopping List page



4. From Find Recipe Page, User can find recipe with different search criteria. (UC-007)



5. Admin can remove user from User List page. Admin can Edit canonical ingredients.



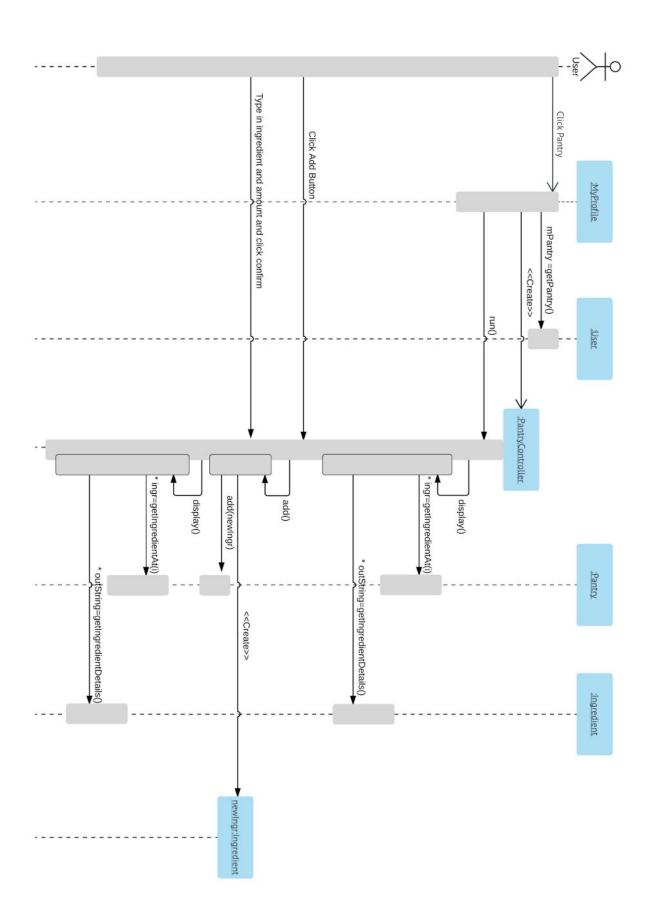
User Interactions:

Sequence Diagram

User Requirement ID#: US-003, US-004

Use Case ID#: UC-004

Use Case Name: Add items into pantry

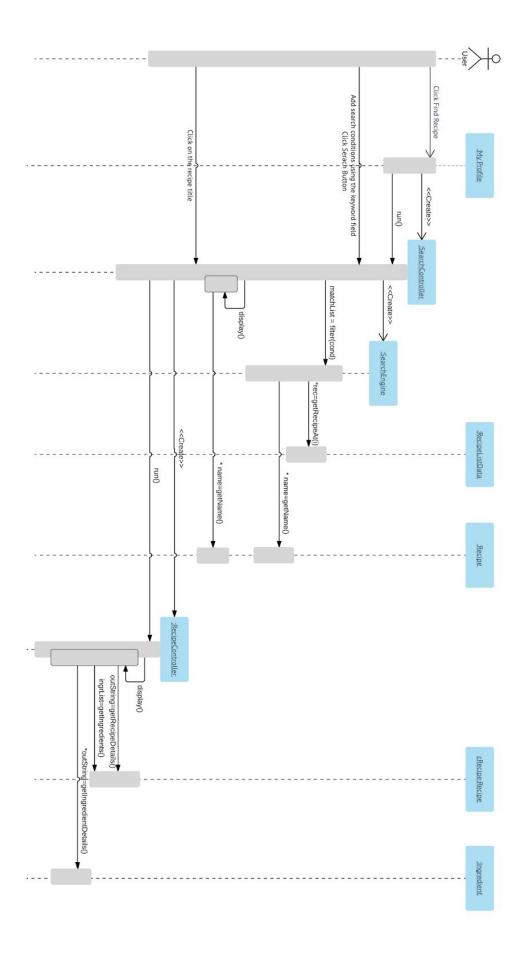


Sequence Diagram

User Requirement ID#: US-010

Use Case ID#: UC-007

Use Case Name: Find a Recipe.



Class Diagram:

