

SOFTWARE ENGINEERING

GROUP NAME - NomNom

MEMBERS

Aneeta Olorode - OLO22612303 Sumana Asgar - ASG22615054 Maahia Rahman - RAH23614335

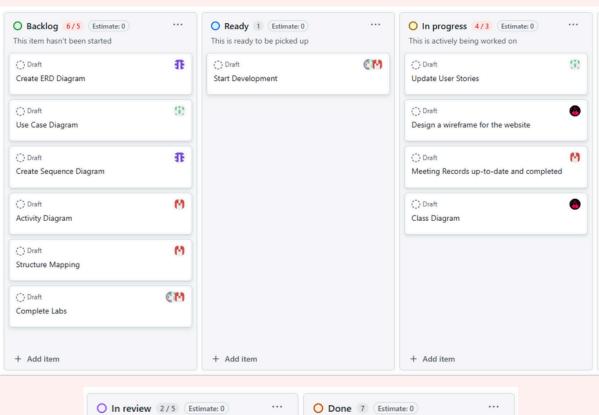
Shaiza Sultana - SUL22528984

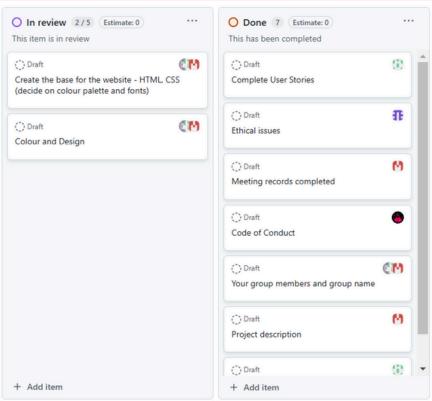
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Overview

For Sprint 2, we will outline the application's features in the form of user stories, present use case diagrams, wireframes, and an ERD diagram. Additionally, we will showcase our updated Kanban board, along with the chosen colour scheme and design concepts.



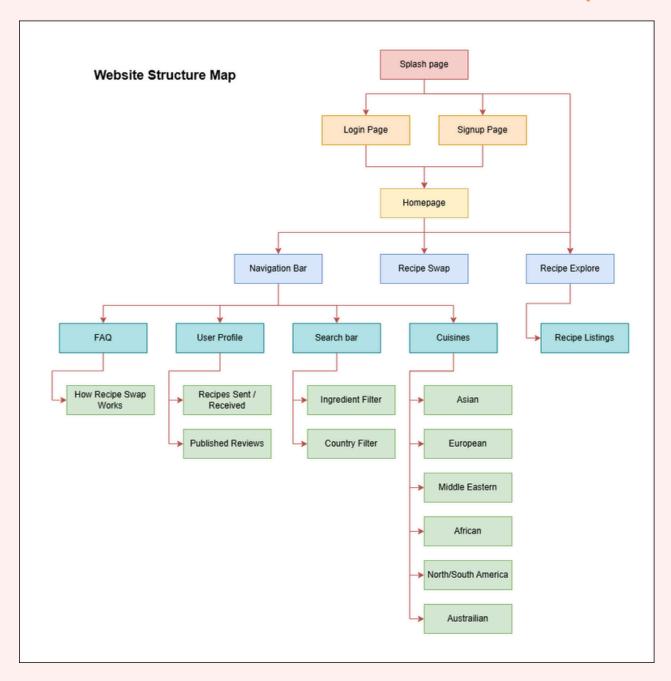


Design Outline

The Recipe Swap platform uses a bold orange, red, and white colour scheme to create a warm and engaging user experience. Red and orange highlight key actions, while a white background ensures readability. Dark red text provides contrast, and gradients in headers add depth. The grid-based layout, inspired by MVC principles, ensures scalability and responsiveness across devices. A mix of serif and sans-serif fonts enhances readability, balancing professionalism with a fun aesthetic.

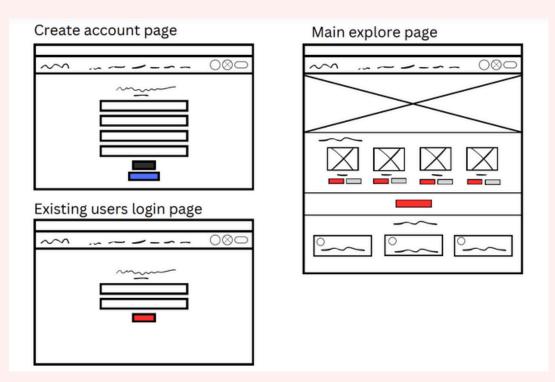
Navigation is intuitive, with global cuisine categories, search, profile, and dark mode toggles, and a dedicated Recipe Swap section. The swap feature follows an MVC approach, where users submit recipes (Model), swaps are matched dynamically (Controller), and available trades are displayed (View). Inspired by Pinterest and AllRecipes, this encourages user interaction and engagement. The design prioritises usability, scalability, and a visually striking experience.

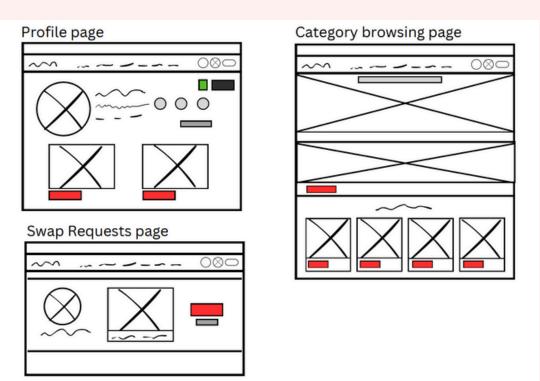
Structure Map



Wireframe

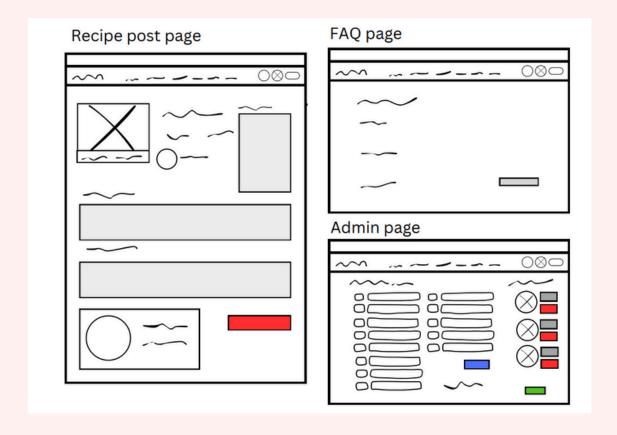
Low Fidelity:







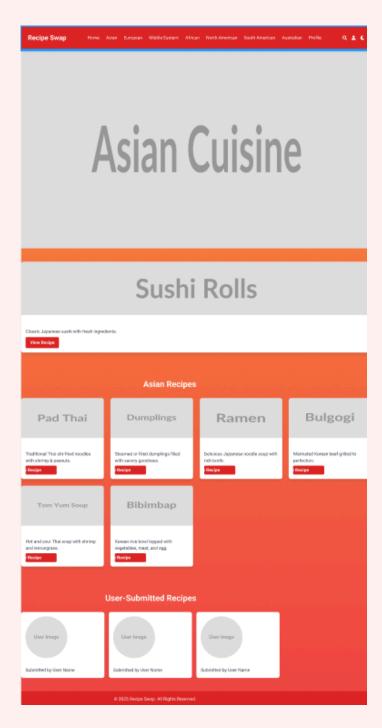
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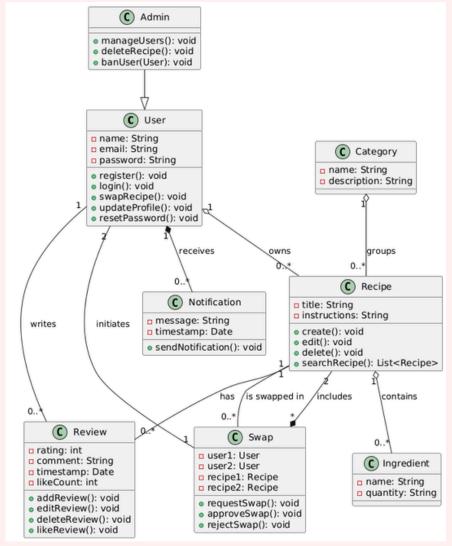
Wireframe

High Fidelity:





Class Diagram

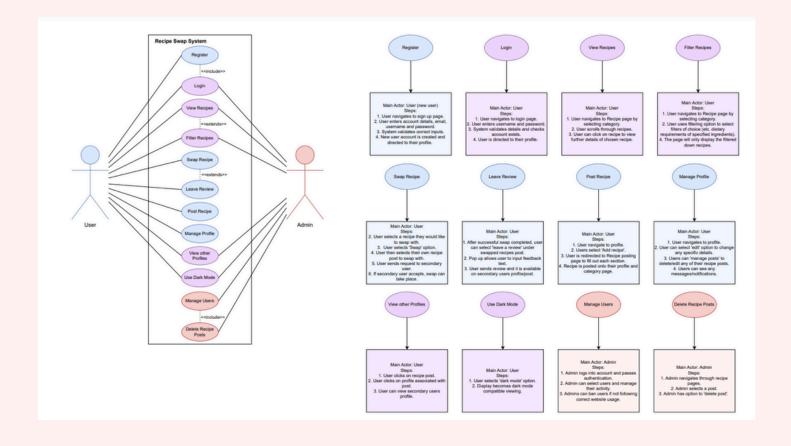


The class diagram uses various relationships, **including association, aggregation, and inheritance.**

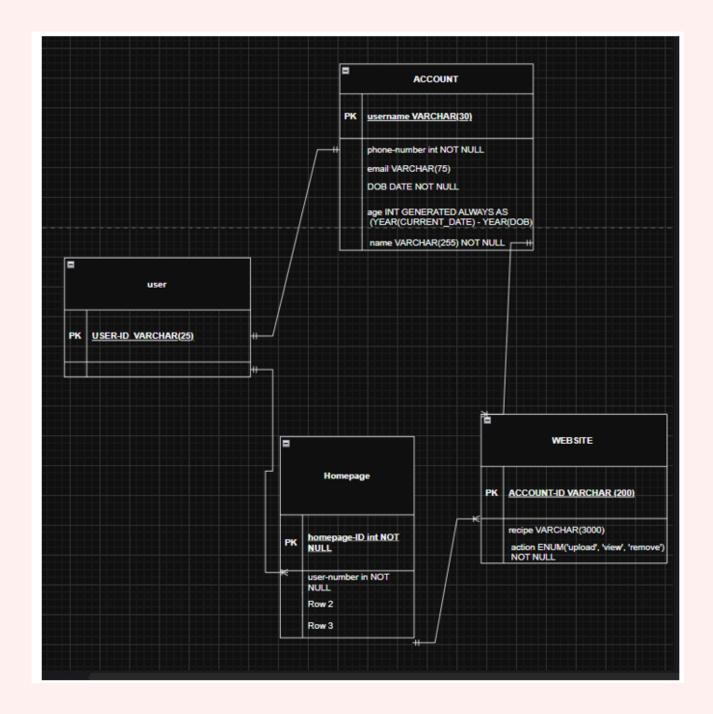
- **Inheritance**: Admin inherits from User, meaning an admin has additional privileges like managing users and deleting recipes.
- Aggregation: Recipe is associated with multiple Ingredient objects, meaning a recipe
 contains ingredients, but ingredients can exist independently. Similarly, Category groups
 multiple recipes.
- **Composition**: User writes Reviews and initiates Swaps, implying strong ownership where reviews belong to users and swaps involve specific users and recipes.
- Associations:
 - User owns multiple Recipes.
 - User receives Notifications.
 - Swap involves two Users and two Recipes.
 - Recipe includes Ingredients.

These relationships define how components interact within the system.

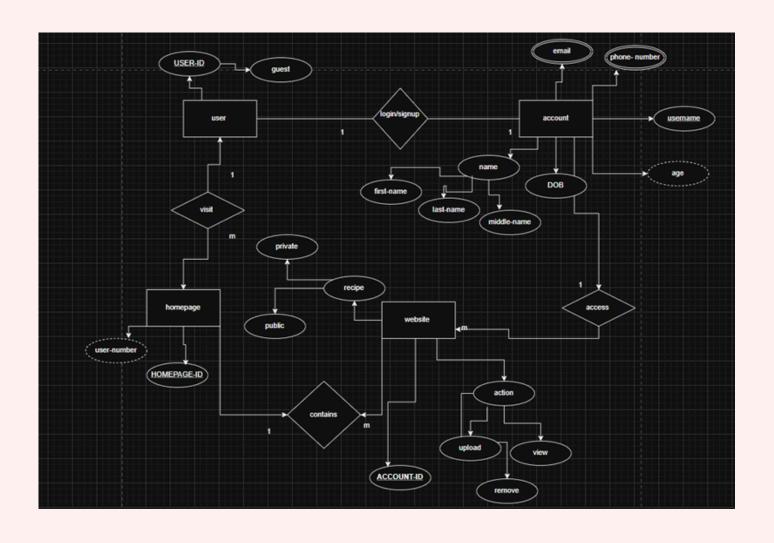
Use Case Diagram



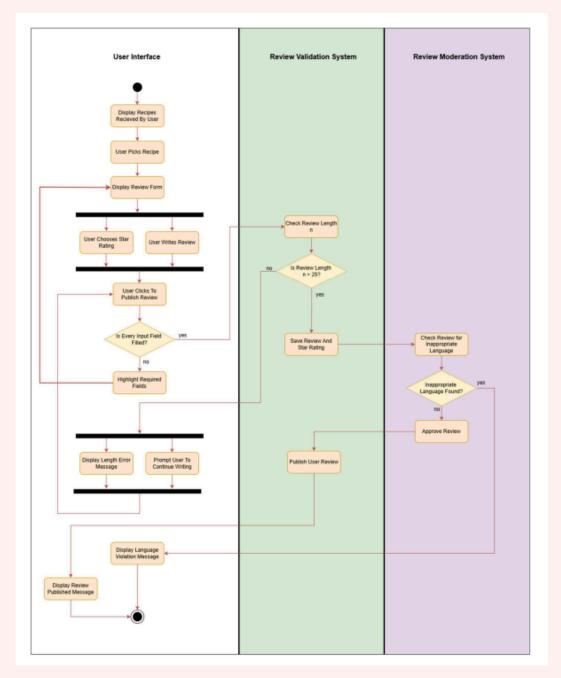






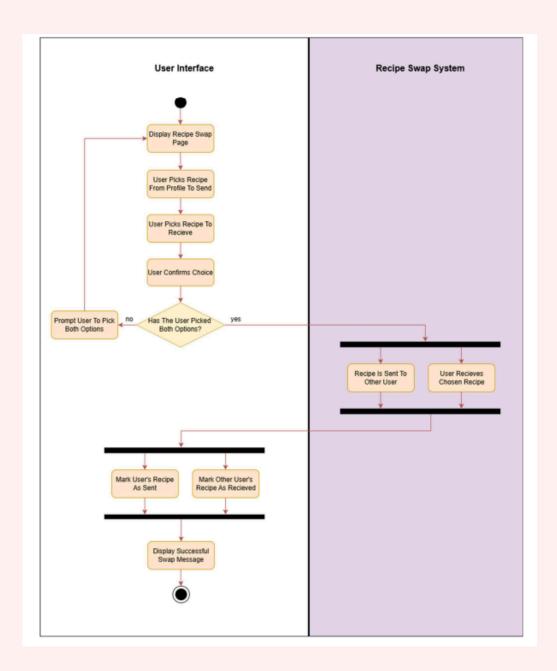


activity Diagram



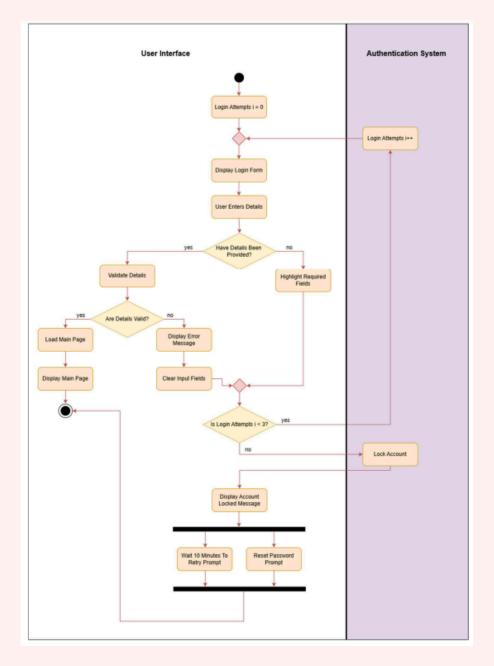
The diagram shows the reviewing system. When a user has received and tried a recipe, they are able to post a review. They are given a review form where they can add a star rating and written review. There are checks for the length of the written review and the content when they try to publish it. This is for moderation checks, to make sure the website remains constructive and positive. If the user doesn't meet the length or content requirements, they are notified and can continue to write the review or start again. If all the content is fine, the review is published.

activity Diagram (2)



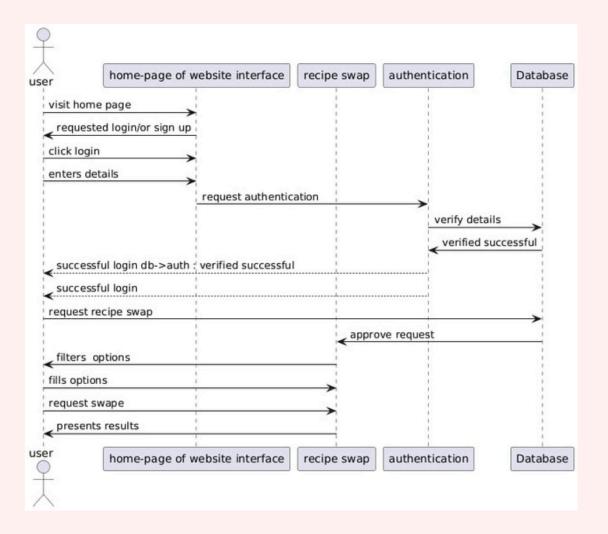
For the recipe swap system, the user is only able to swap a recipe if they already have one on their profile. If they do, they choose the recipe they want to swap then the one they want to receive. When the user confirms, there is a check to make sure they've picked both options and if they haven't, they are prompted to do so. When both recipes have been chosen, the user receives the recipe and theirs is sent at the same time. The user then sees confirmation that the recipes have been swapped successfully.

activity Diagram (3)



This diagram shows the ideal flow for the login system for when the user has an existing account. On the interface side, the user is shown the login form and starts with 0 login attempts. They then input their login details and if they match what is in the database, they are logged in. If the details are wrong, the user is notified and are then prompted to try again. If the details are inputted incorrectly 3 times, the account is locked, and they are given the option to wait and try again or reset their password.

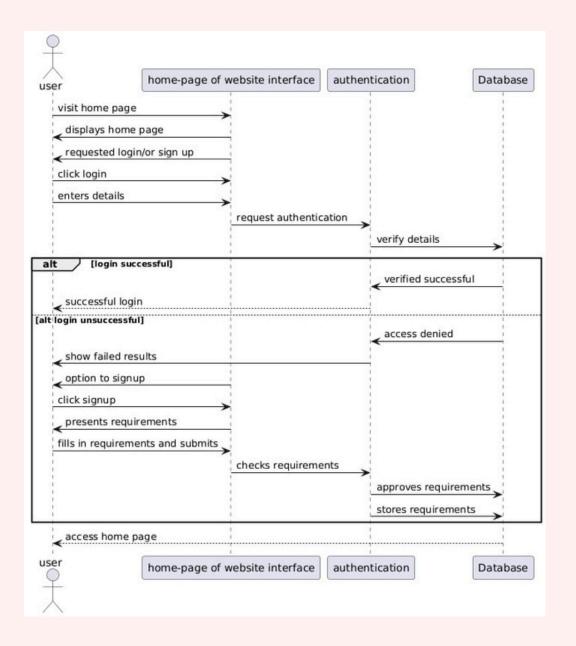
Seguence Diagram



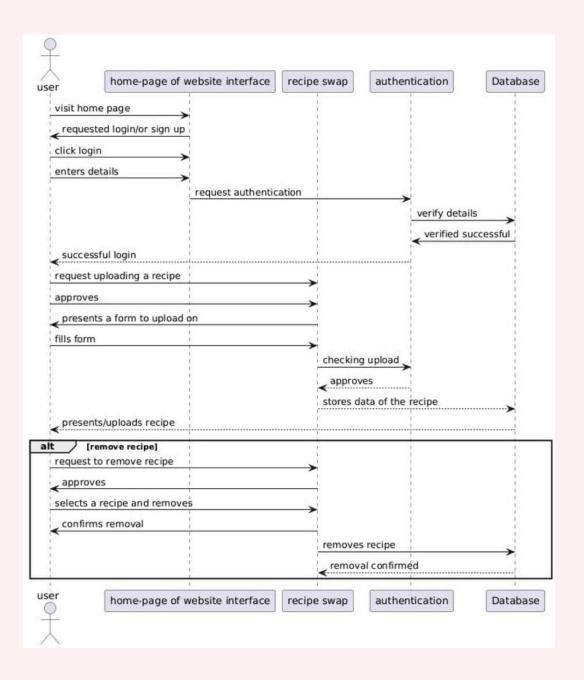
These sequence diagrams represent interactions in a recipe management system, focusing on user authentication, recipe management recipe recipe review, and recipe swapping. Users can log in, sign up, upload, remove, review, and swap recipes. The system authenticates users, verifies credentials, and manages recipes through approvals and database storage.

Admins oversee recipe removal, while the system provides filtering and approval mechanisms for recipe swaps. The diagrams highlight how different actors (users, authentication, database, and the website interface) collaborate in these processes.

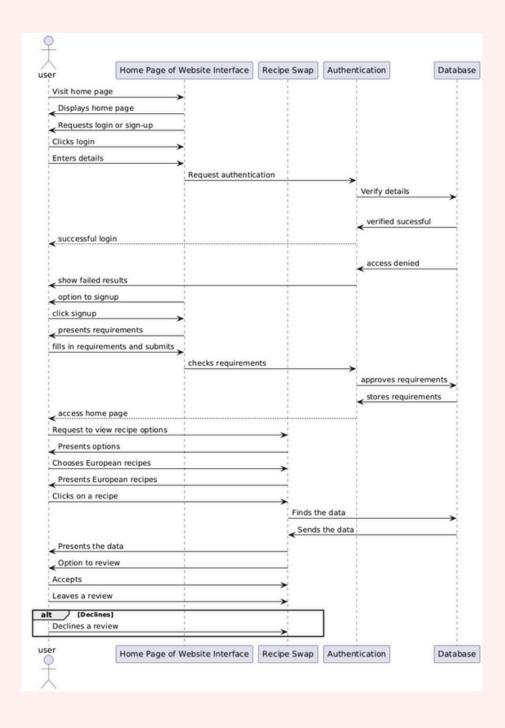
Seguence Diagram (2)



Seguence Diagram (3)



Seguence Diagram (4)



User Stories

User Stories

- 1. As a **[user]** I want to **[post my recipes]** to a wider range of people.
- 2. As a [user] I want to [browse recipes] with a filtered approach.
- 3. As a [user] I want to [view my profile] where I can [edit my details and posts].
- 4. As a [user] I want to [select a recipe] so that I can [swap my own with it].
- 5. As a **[user]** I want to **[leave reviews]** after trying out a recipe swap.
- 6. As a [user] I want to [use a dark-mode option] to [decrease my eye strain].
- 7. As a **[user]** I want to [easily navigate the instructions of a recipe] with titled sections.
- 8. As **a [user]** I want to **[view others profiles]** so that I can [network with them and follow more of their recipes].
- 9. As an **[admin]** I want to **[manage users]** so that I can **[check their activity and ban any unauthorised users]**.
- 10. As an **[admin]** I want to **[delete recipe posts]** if they do not meet the quidelines.
- 11. As a [user] I want to [view others profiles] so that I can [network with them and follow more of their recipes].
- 12. As an [admin] I want to [view user made content like reviews and recipes] so I can [moderate the content].
- 13. As an [admin] I need [special privileges that let me suspend accounts and delete user made content that violate guidelines] to [maintain a positive environment]

Meeting Minutes

Meetings

Project Name	Recipe Swap
Date and Time	27/01/25 16:00
Meeting Goal	agree on code of conductchoose group namechoose project
Facilitator	N/A
Note Taker	Aneeta
Attendees	Aneeta, Maahia, Shaiza, Sumana
Roundtable Updates	N/A
Discussion Points	 group name - we decided on NomNom project selection - we chose recipe swap. reading through the list, we already had lots of ideas for the design and content meeting days - we'll meet at least once a week to show each other what we've done and give feedback
Actions	 Project description refined – Aneeta Code of Conduct – Sumana Personas – Maahia Ethical Issues – Shaiza Meeting minutes – Aneeta Create wireframe – all

Meetings

Project Name	Recipe Swap
Date and Time	03/02/25 14:54
Meeting Goal	discuss any updates
Facilitator	Aneeta
Note Taker	Aneeta
Attendees	Aneeta, Maahia, Shaiza, Sumana
Roundtable Updates	 Maahia – completed 2 personas Sumana – completed code of conduct Aneeta – completed project description Shaiza – completed and uploaded ethical issues to GitHub
Discussion Points	What we got done – we all managed to complete our designated tasks but some of us need to upload it to github. We set up the new repository and invited everyone as collaborators. Also discussed what should be on the Kanban board
Actions	 Upload any outstanding tasks to github – all Complete Kanban board – all Add all items into one pdf file – Aneeta Set up docker environment – all Upload document to Moodle - Shaiza



Project Name	Recipe Swap
Date and Time	10/02/2025 2-5 PM
Meeting Goal	 Brainstorm coding ideas and methods for the project · Review sprint 2 task and splitting them Deciding on a colour scheme
Facilitator	Shaiza
Note Taker	Shaiza
Attendees	Aneeta, Maahia, Shaiza, Sumana
Roundtable Updates	 Aneeta – looking for API to add to the product Maahia – discuss sprint 1 and suggest ideas for sprint 2 Shaiza – completing note sheet Sumana – setting up docker environment All – editing/improving sprint 1
Discussion Points	 Review the code of conduct and add the missing information How the swape idea and how it will function Colour scheme for the project Layout for home pages and other pages Add GDPR and data privacy · Copyright scan/filter per recipe
Actions	 Aneeta – colour scheme and finding useful coding skills for the project Maahia – edit user stories based on feedback Shaiza – editing ethical issues based on feedback Sumana – edit code of conduct based on feedback All – being clear on what is needed to be done for this project

Meetings

Project Name	Recipe Swap
Date and Time	17/02/2025 2-5 pm
Meeting Goal	 Brainstorm coding ideas and methods for the project Review sprint 2 task and splitting them Deciding on a colour scheme
Facilitator	Shaiza
Note Taker	Shaiza
Attendees	Aneeta, Maahia, Shaiza, Sumana
Roundtable Updates	 Select tasks for sprint 2 Finish lab work Discuss the points for the website so everything in clear and easy to understand Aneeta – structure diagrams Maahia – use case diagrams Shaiza –sequence diagrams Sumana – wireframes
Discussion Points	 colour schemes , designs function splitting tasks for sprint 2 labs activities
Actions	 Aneeta – activity diagrams, structure diagram Maahia – user stories , use case diagram Shaiza – sequence diagrams, ERD diagram Sumana – edit document, wireframes, class diagram All – designs, colour schemes, Kanban board



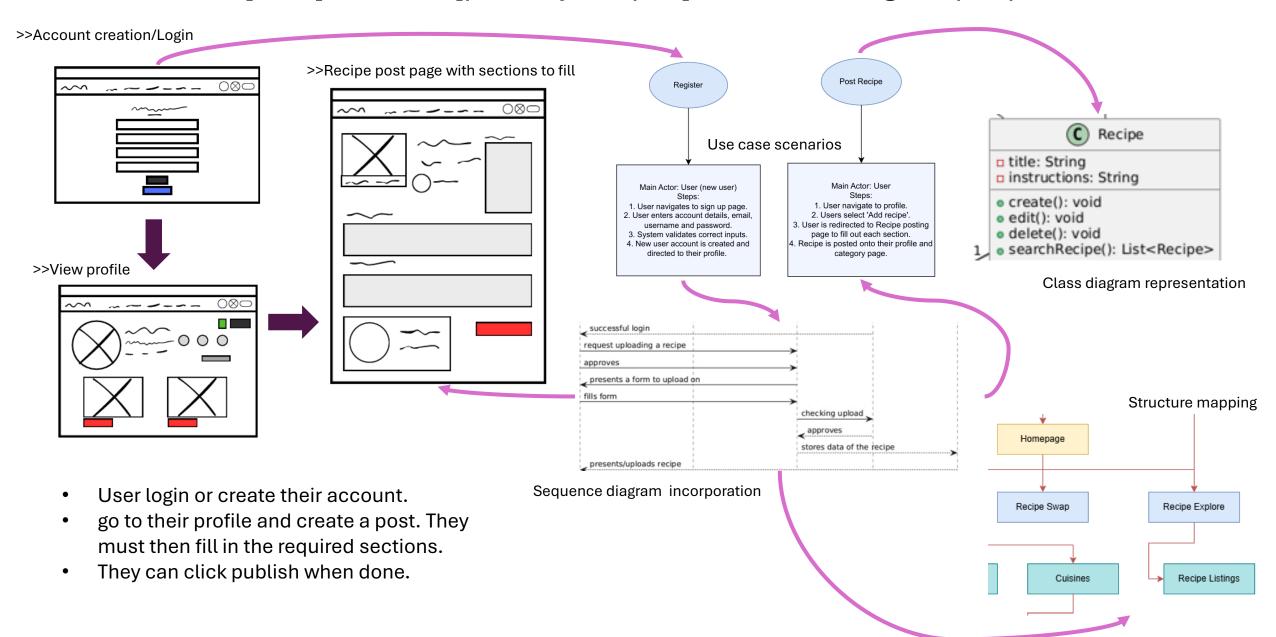
GitHub

https://github.com/maahiarahman/Software-Engineering-Project

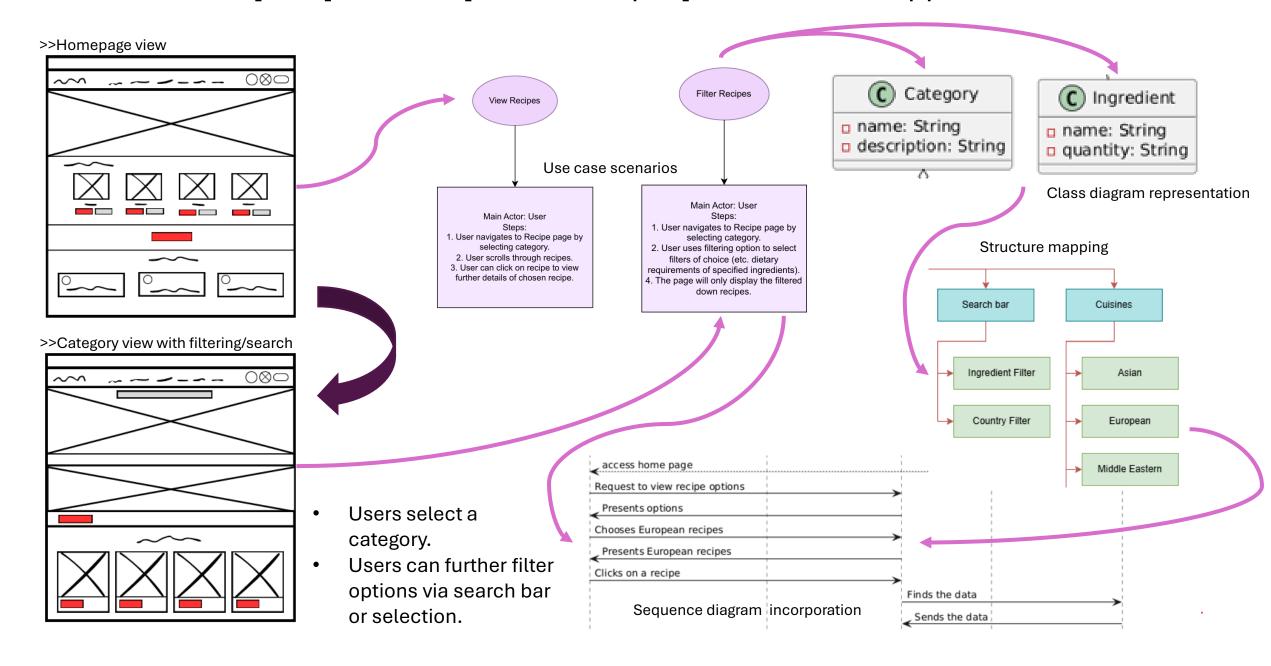
Kanban Board

https://github.com/users/maahiarahman/projects/1

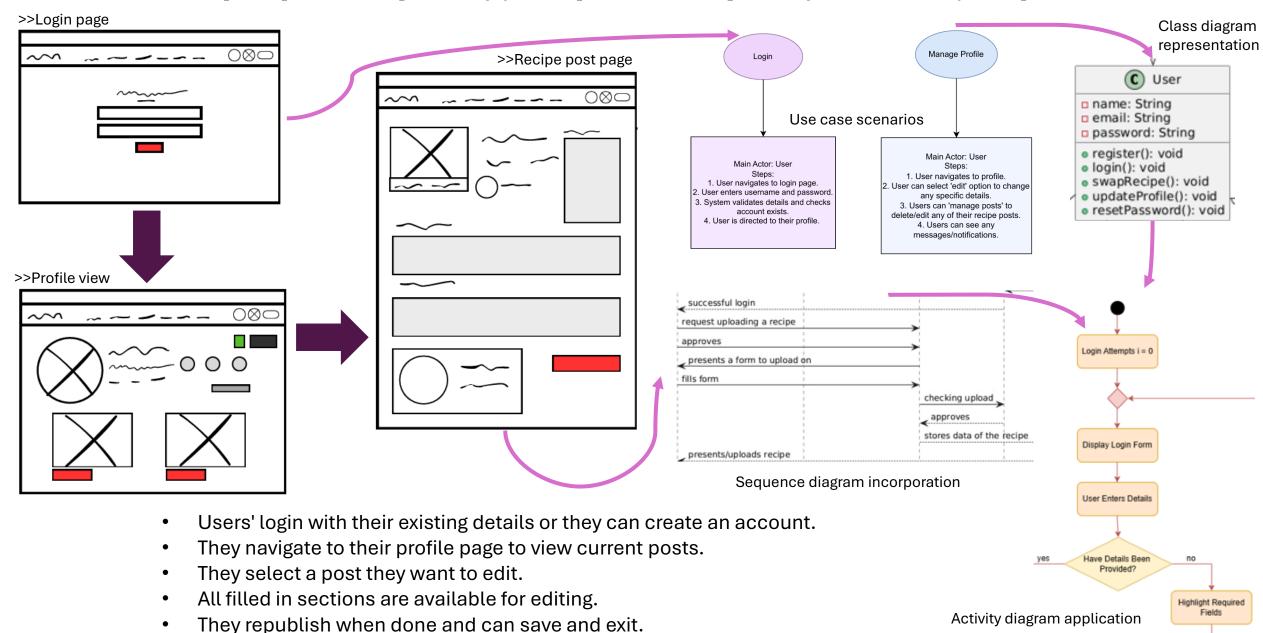
"As a [user] I want to [post my recipes] to a wider range of people."



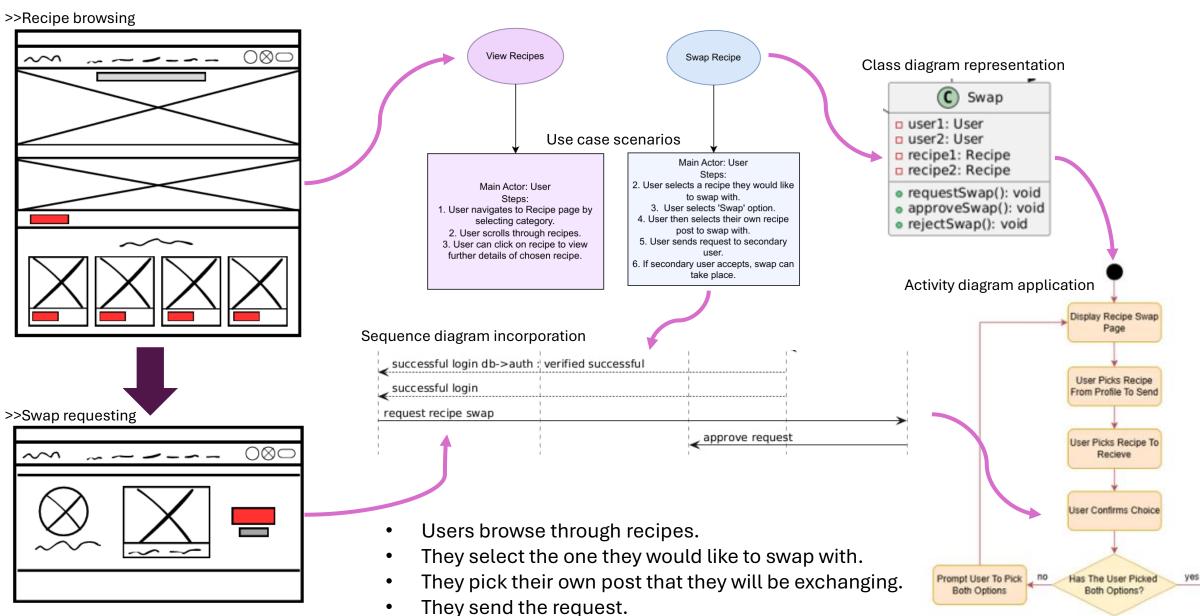
"As a [user] I want to [browse recipes] with a filtered approach."



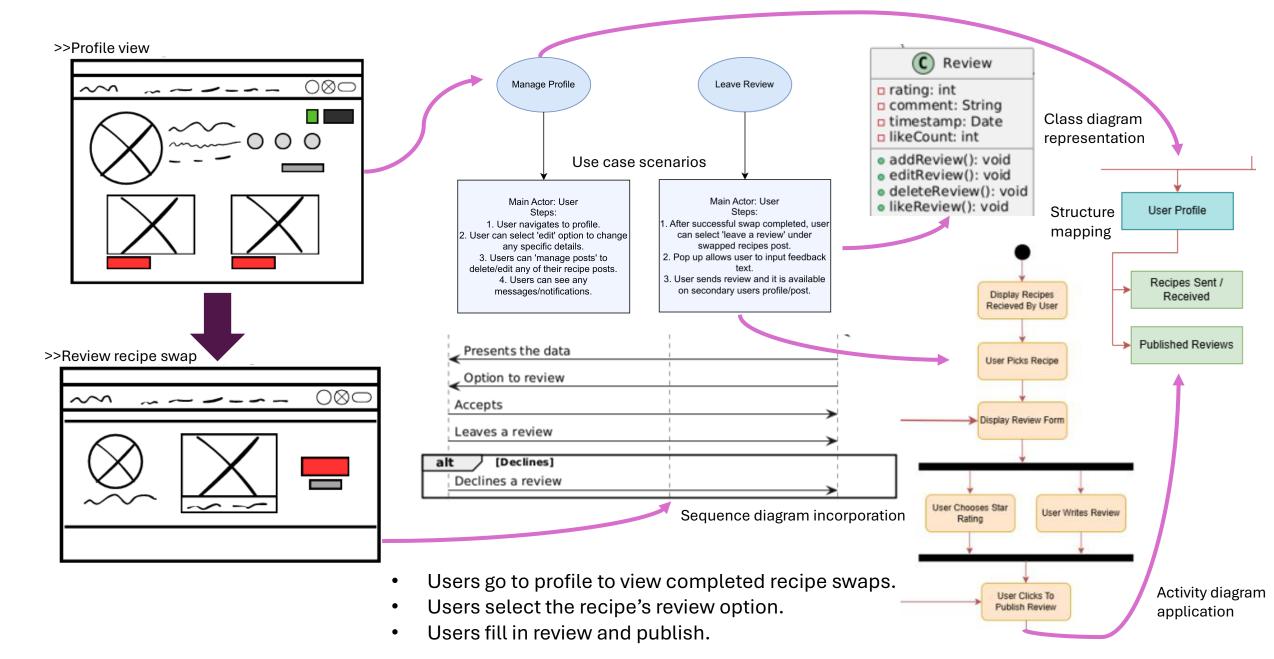
"As a [user] I want to [view my profile] where I can [edit my details and posts]."



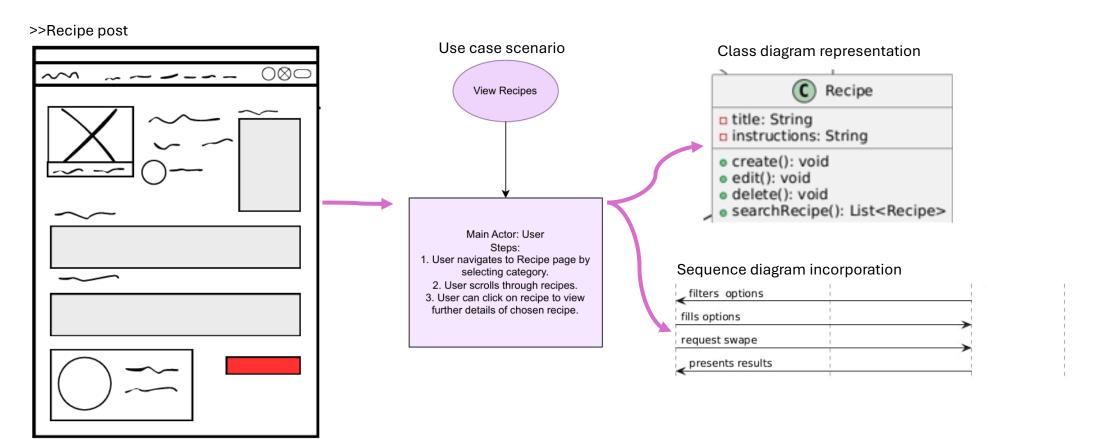
"As a [user] I want to [select a recipe] so that I can [swap my own with it]."



"As a [user] I want to [leave reviews] after trying out a recipe swap."

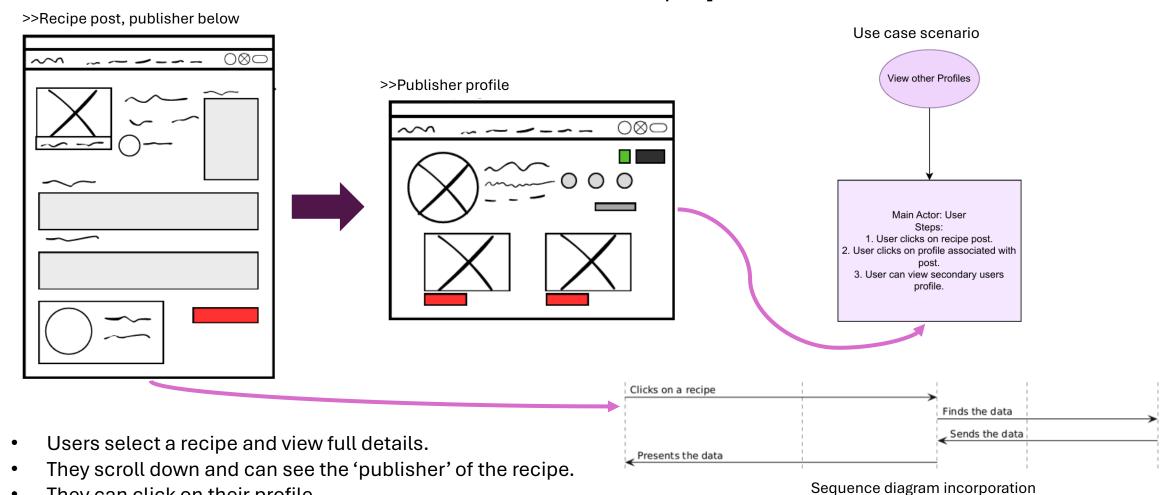


"As a [user] I want to [easily navigate the instructions of a recipe] with titled sections."



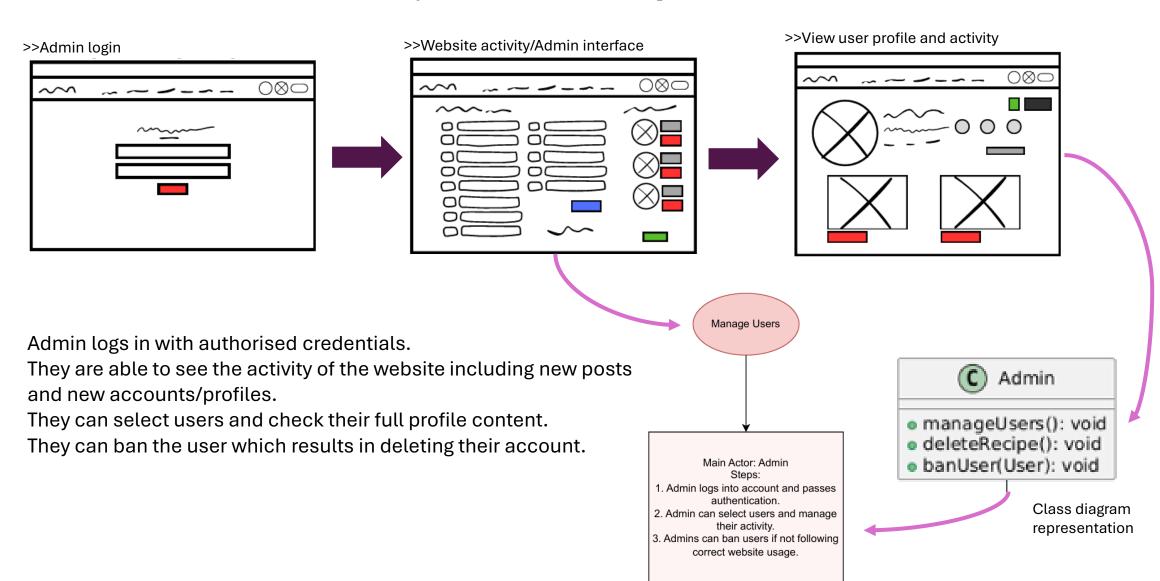
- Users can click on a recipe.
- They will be directed to the recipe's full post which has all details in specified sections.

"As a [user] I want to [view other's profiles] so that I can [network with them and follow more of their recipes]."



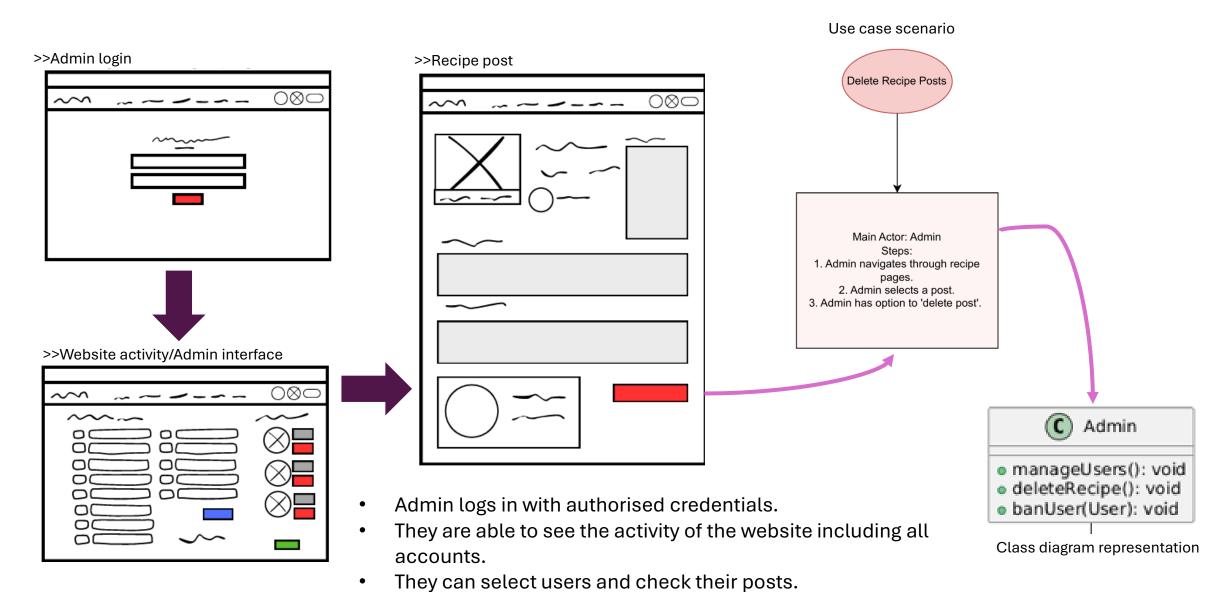
- They can click on their profile.
 This redirects them to the recipe publishers' profile.
- They can view details of them, including networking options.

"As an [admin] I want to [manage users] so that I can [check their activity and ban any unauthorised users]."



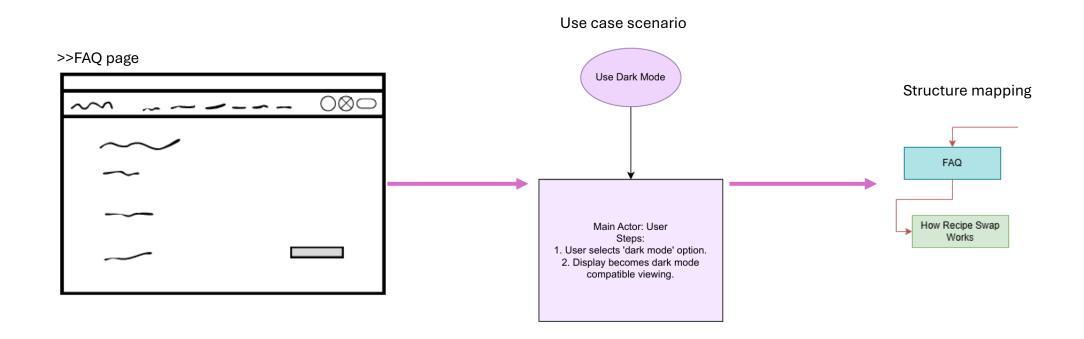
Use case scenario

"As an [admin] I want to [delete recipe posts] if they do not meet the guidelines."



They can view the post and delete if it doesn't meet guidelines.

"As a [user] I want to [use a dark-mode option] to [decrease my eye strain]."



- Users can click the toggle on the top right for dark mode.
- If they are unsure, they can go to FAQs.
- Instructions will be found in the FAQs.