

Project: Recipe Planner

Project Idea

Recipe Planner is a class project web application that helps users save their recipes, organize them into weekly meal plans, and manage the connection between ingredients and meals. It is designed as a demonstration project with a clear database structure and simple user interface.

Main Components

Authentication (Account)

Users can register and login. Each account contains an ID, email, password, and display name. Accounts are linked to Recipes thanks to the Connects connect table.

Recipes

Each recipe contains an ID, title, description, preparation me, cooking me, servings, difficulty, steps, and an illustration. Recipes are linked to Ingredients thanks to the Needs connect table.

Ingredients

Each ingredient contains an ID, name, calories, and proper es. They also have all their nutritive specs such as Fat, Carbs, Fibers, Protein, Salt and Sugar. Ingredients are being sold by shops with a connector table called Sells.

Shops

Each shop contains an ID, a name, a type of shop, an address, its opening me, an about text information, a website link and a phone number.

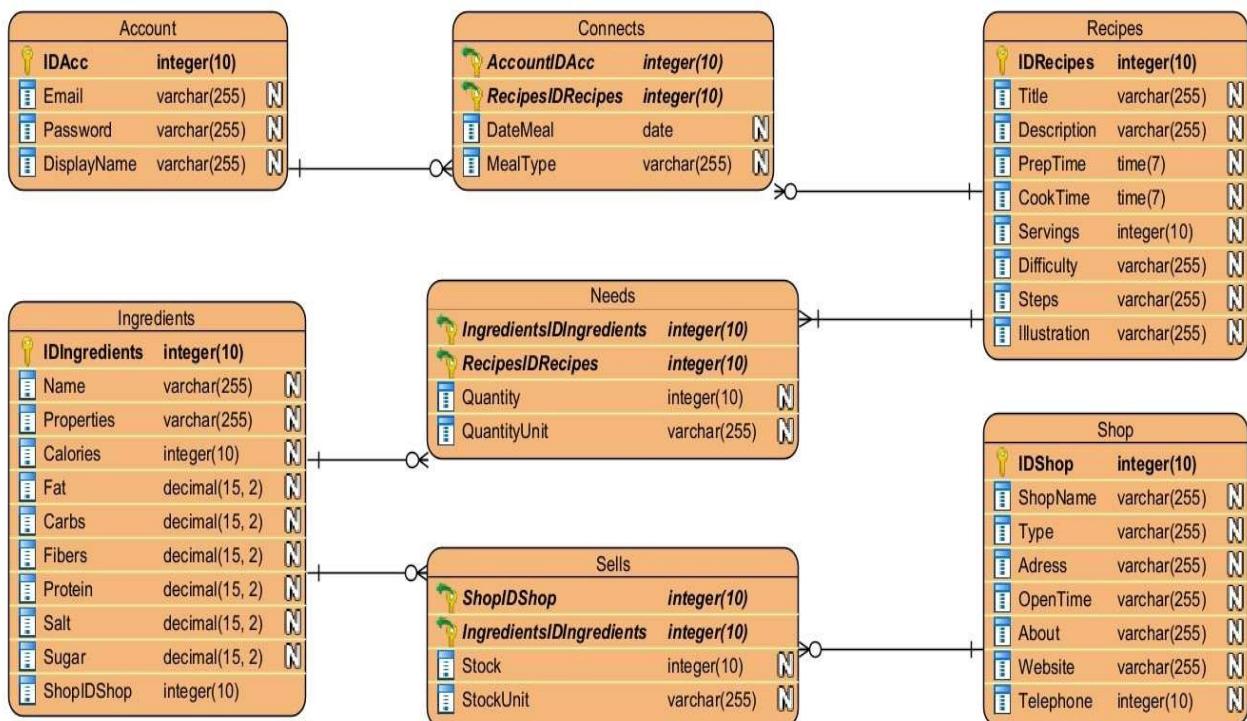
Connector tables

Several connector entities are used to manage relations:

- Connects: links Account to Recipes with the date for the meal and its type (breakfast, lunch...) - Needs: links Recipes to Ingredients with the quantity and its unit.
- Sells: links Shops to Ingredients with the quantity stocked and its unit.

Database overview:

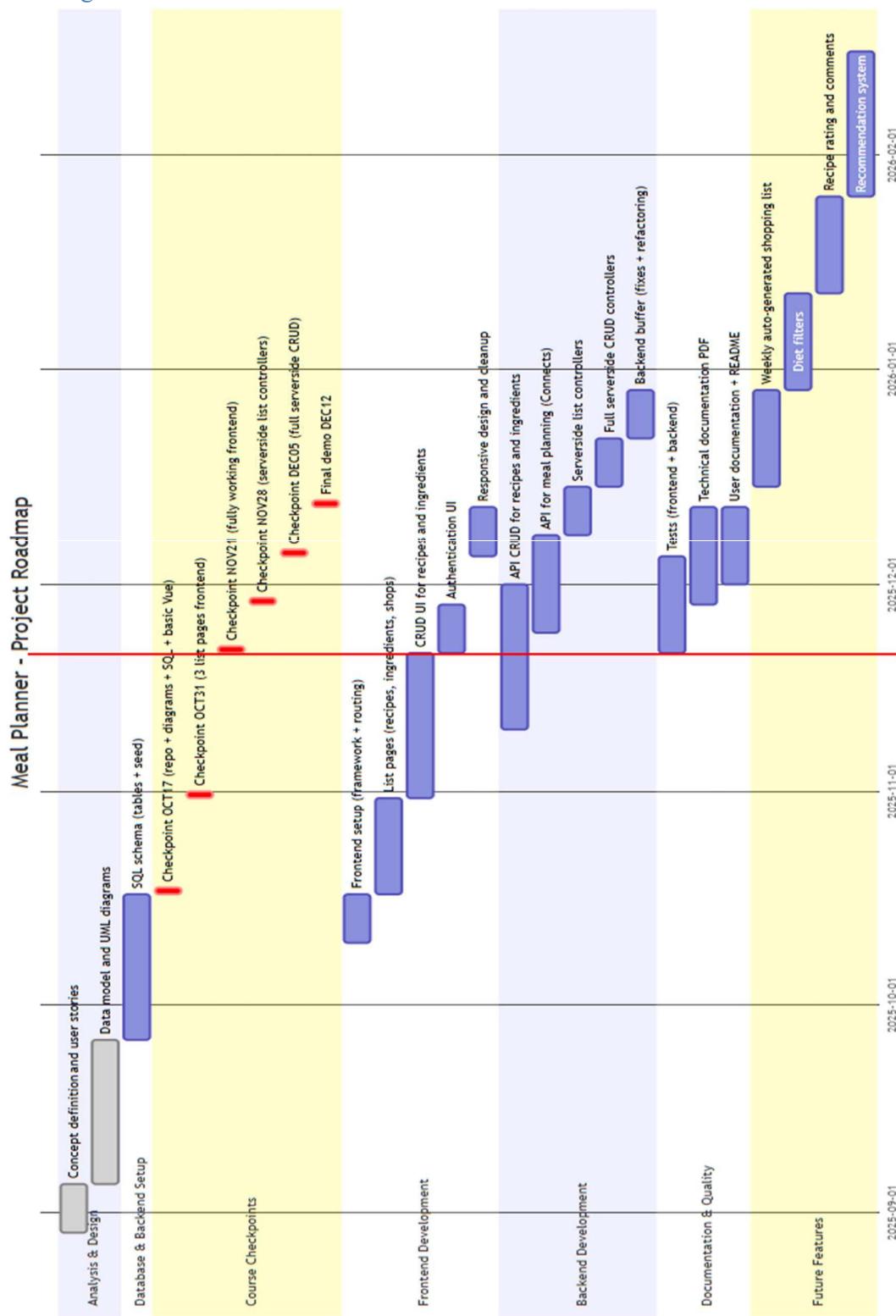
- Account: authentication and profile information
- Recipes: details of each recipe
- Ingredients: food elements with calories and proper es
- Shop: shop informations
- Connects: relation between Account and Recipes
- Needs: relation between Recipes and Ingredients
- Sells: relation between Shops and Ingredients



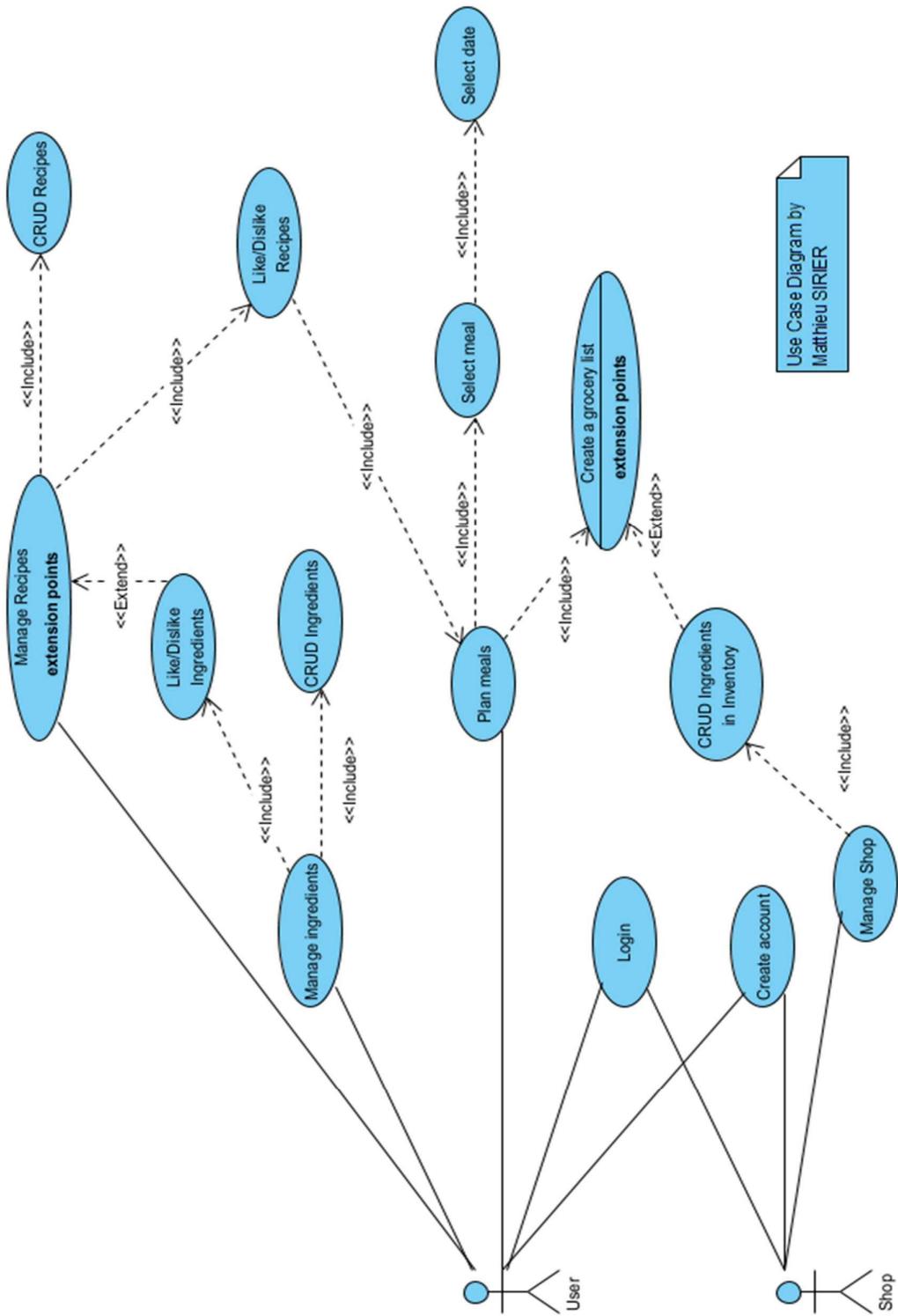
ER Diagram:



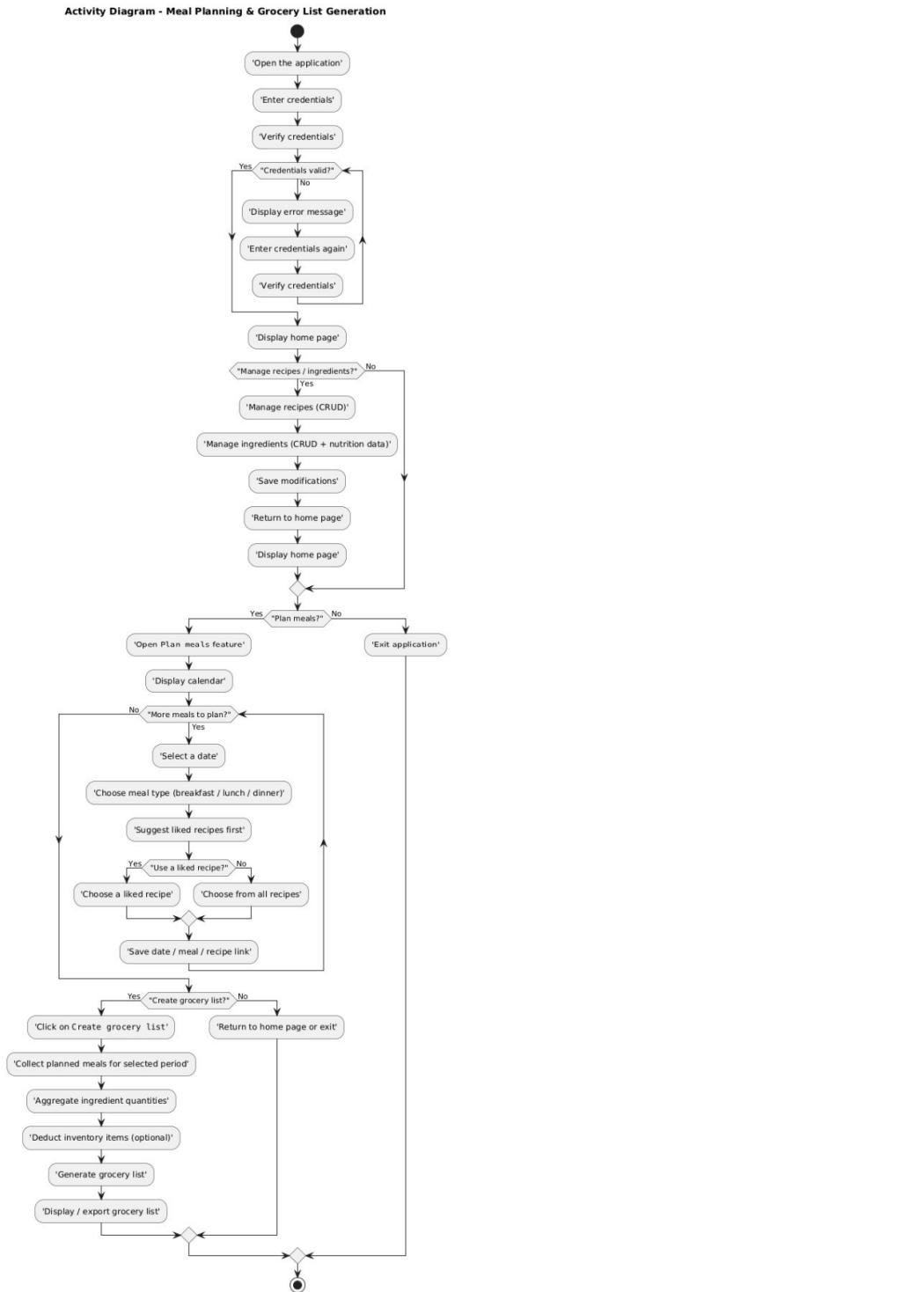
Gantt diagram:



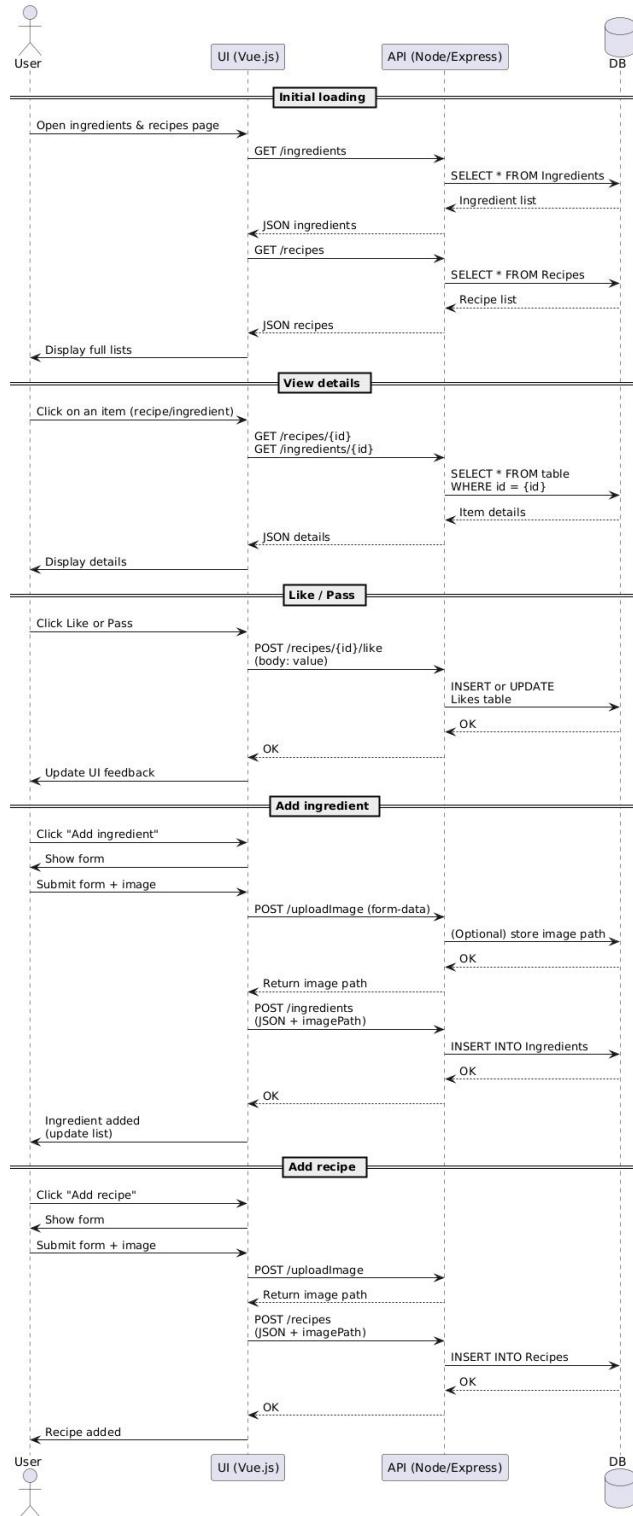
Use Case Diagram (Matthieu):



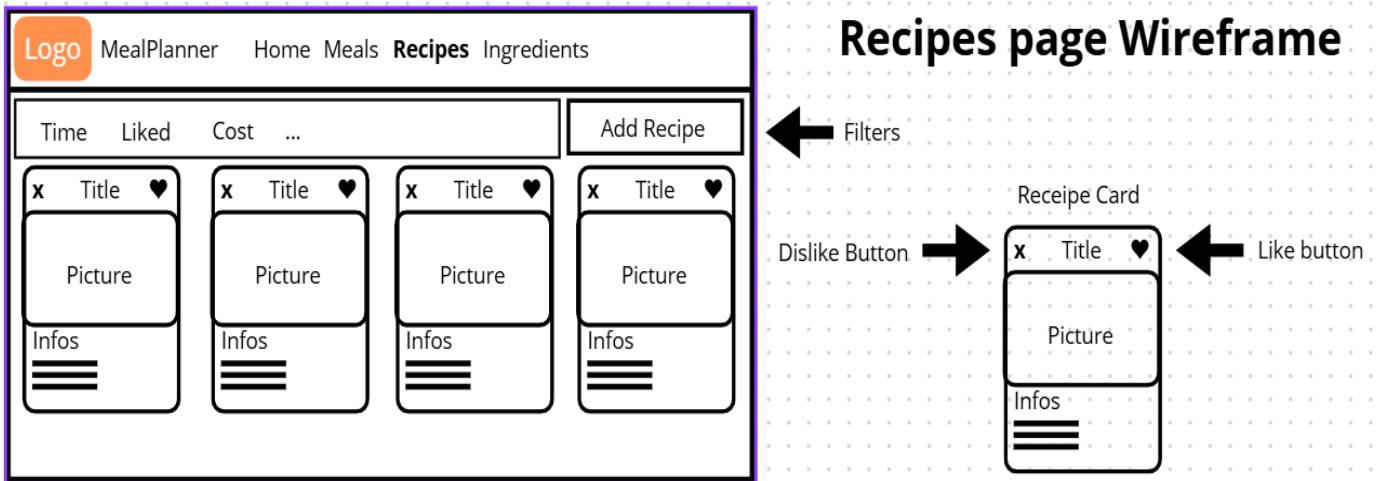
Activity diagram by Matthieu: Login, recipes management and meal planning



Sequence diagram by Matthieu:

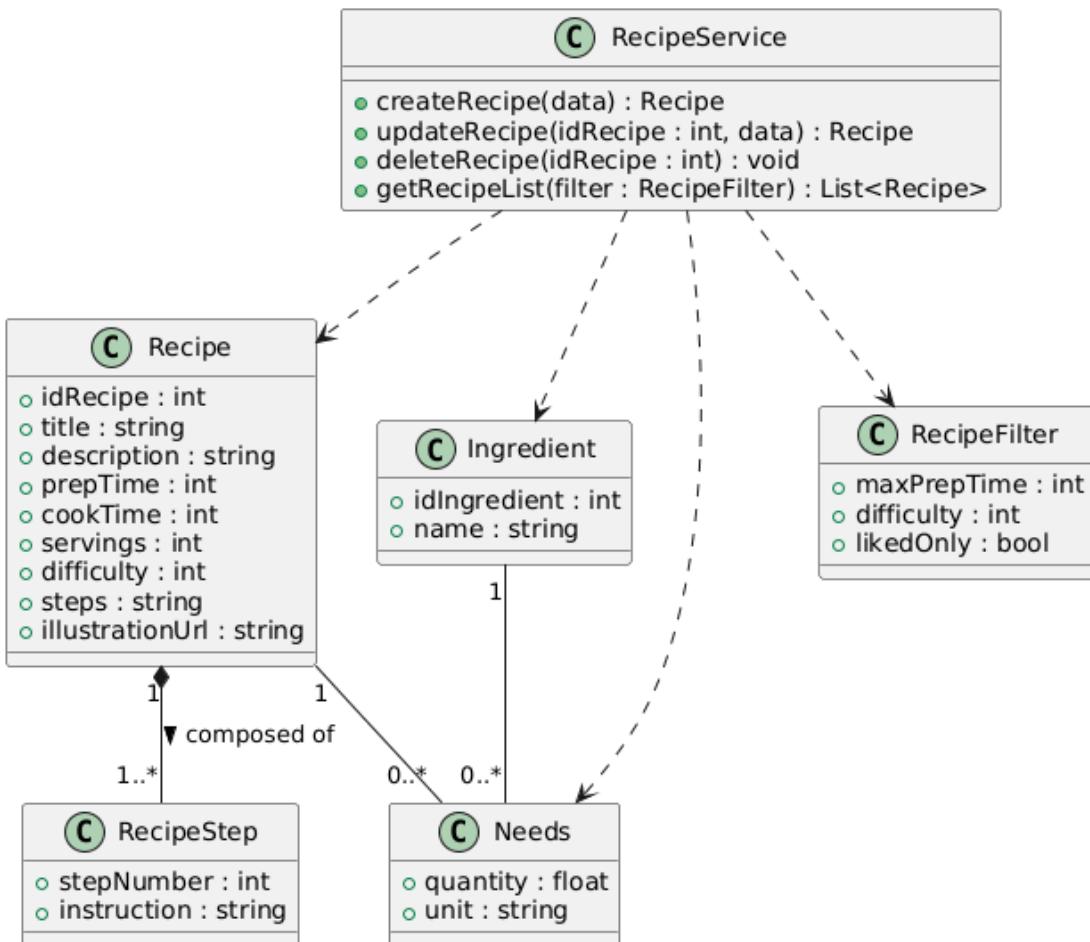


Wireframe by Matthieu:

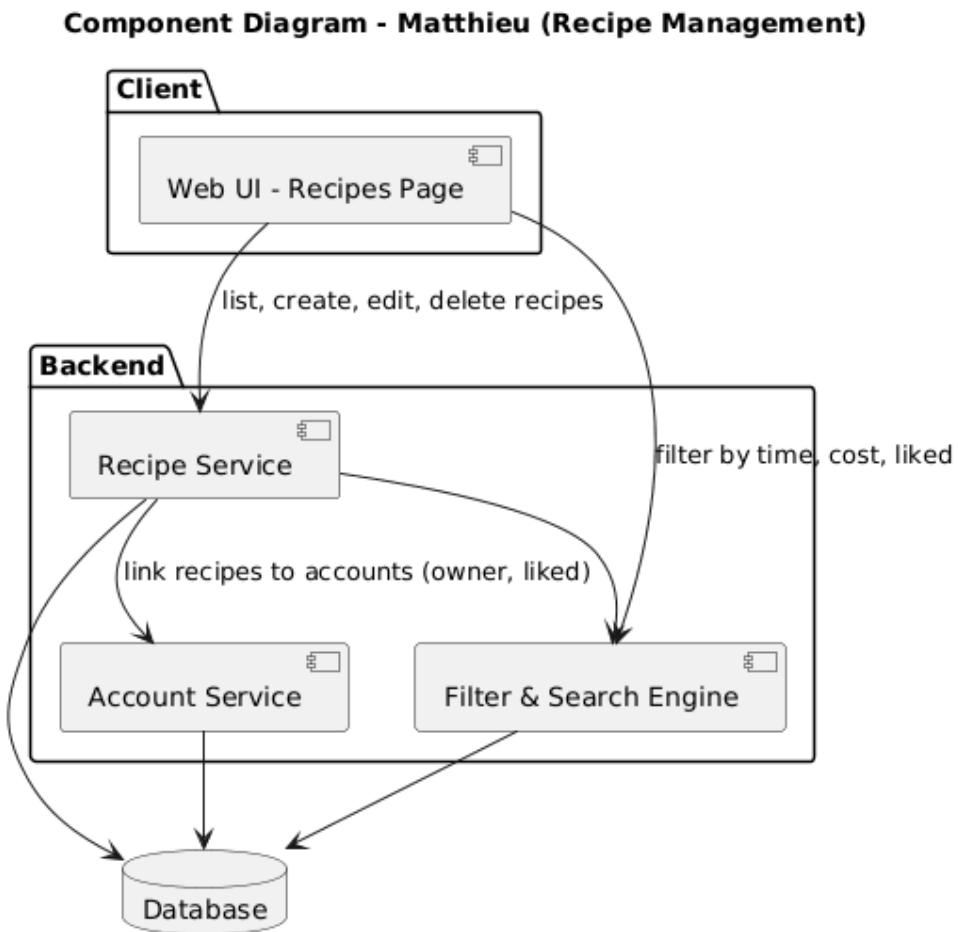


Class diagram by Matthieu:

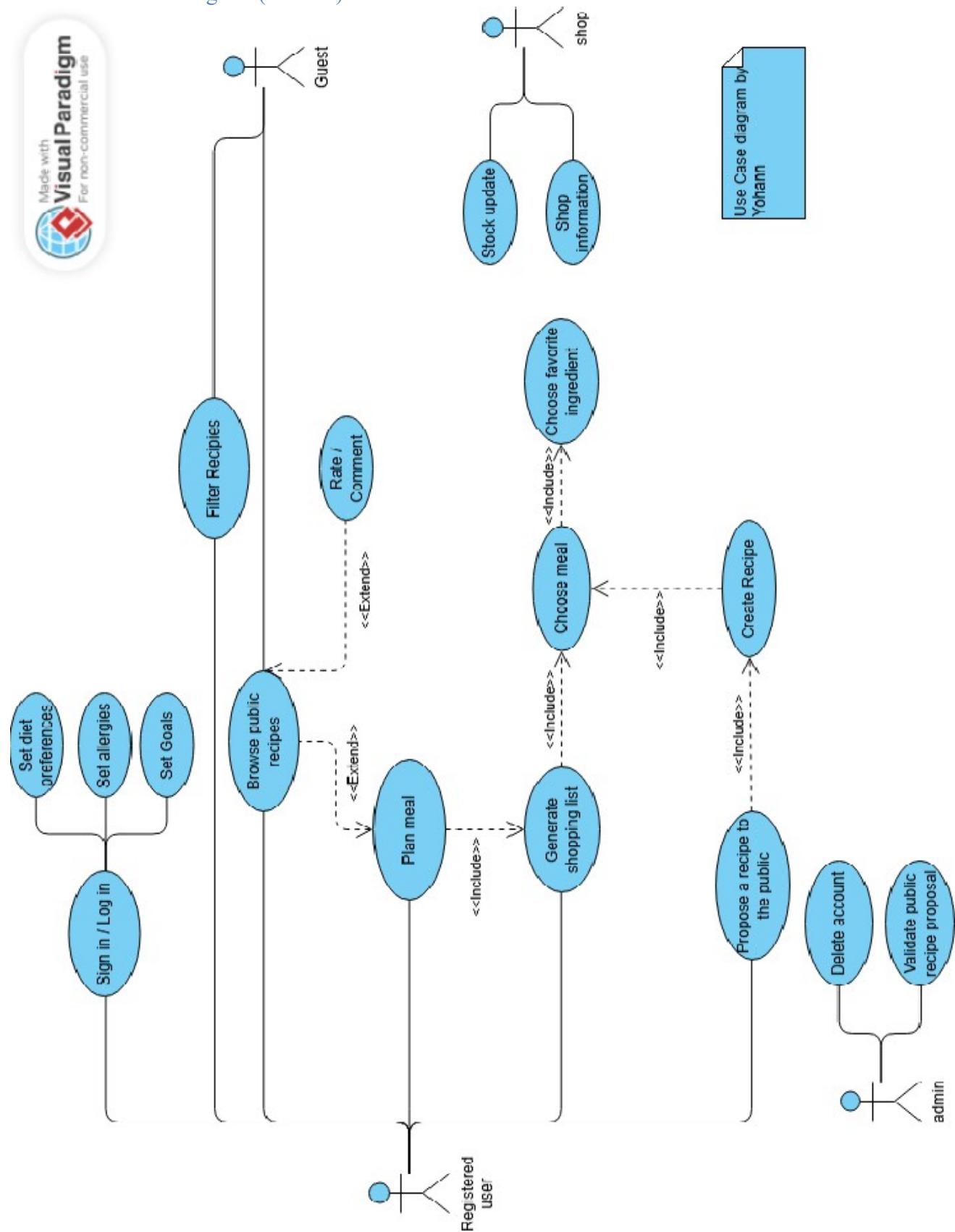
Class Diagram - Matthieu (Recipe Management)



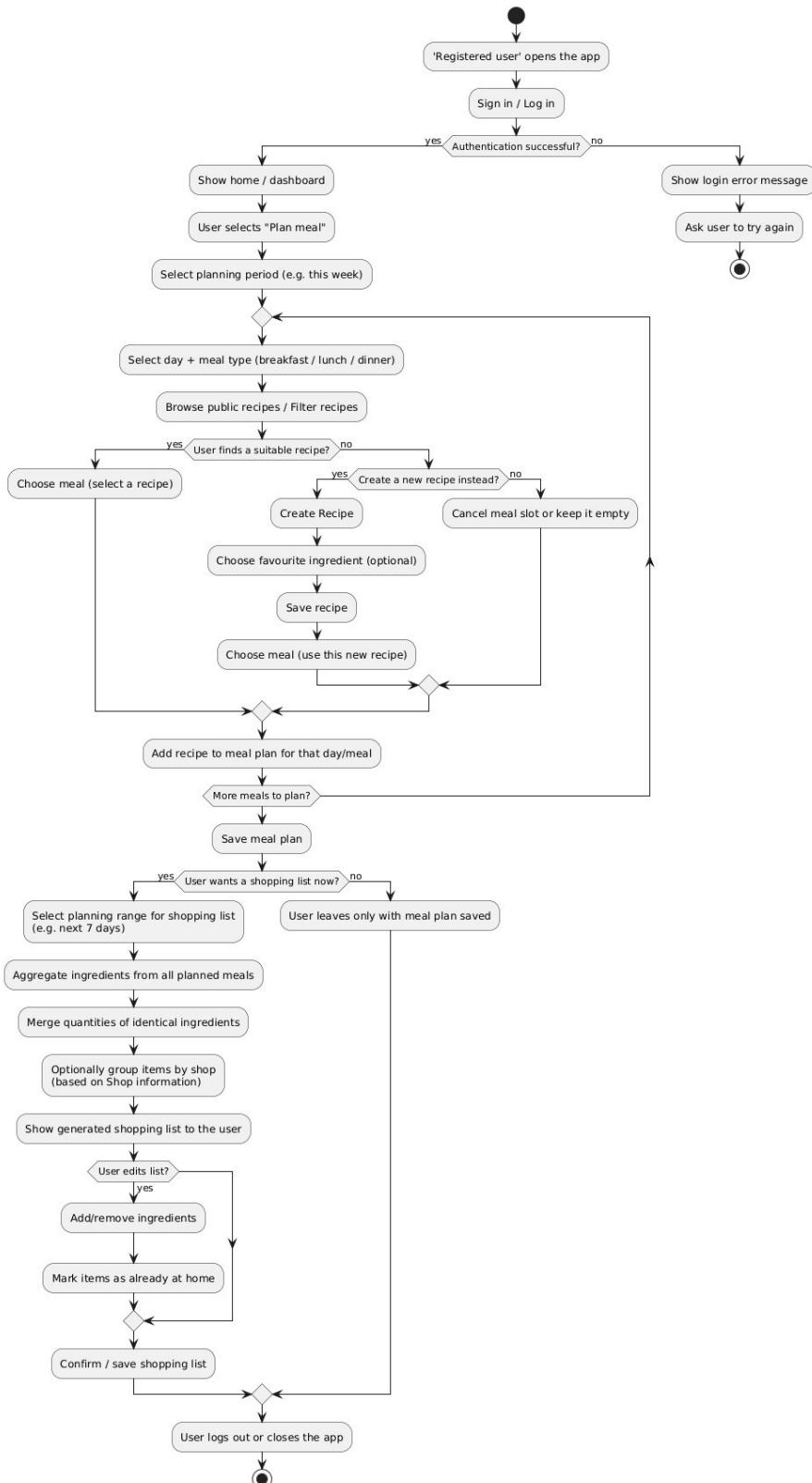
Component diagram by Matthieu:



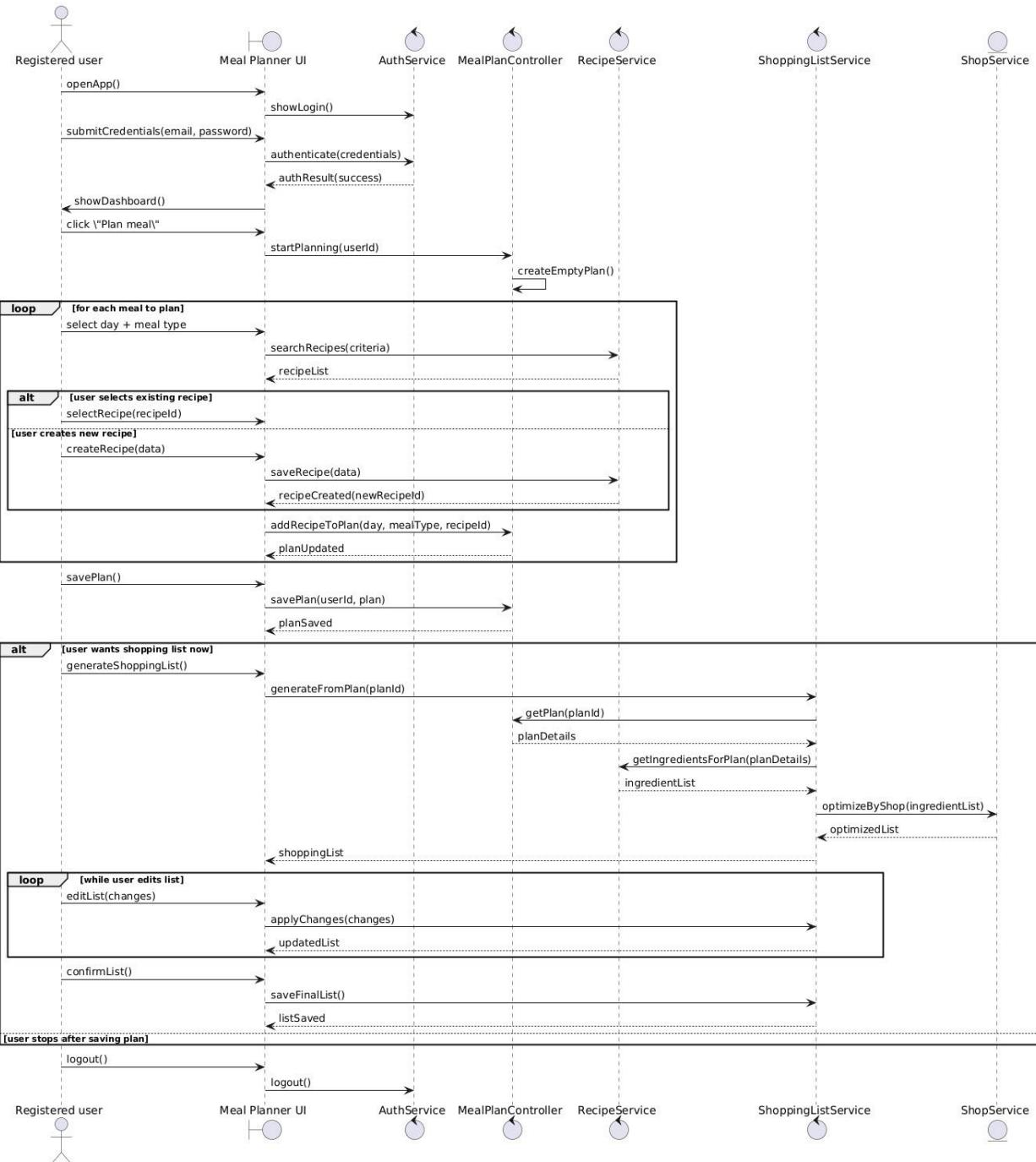
Use Case Diagram (Yohann):



Activity diagram by Yohann: Login and meal planning:



Sequence diagram by Yohann:

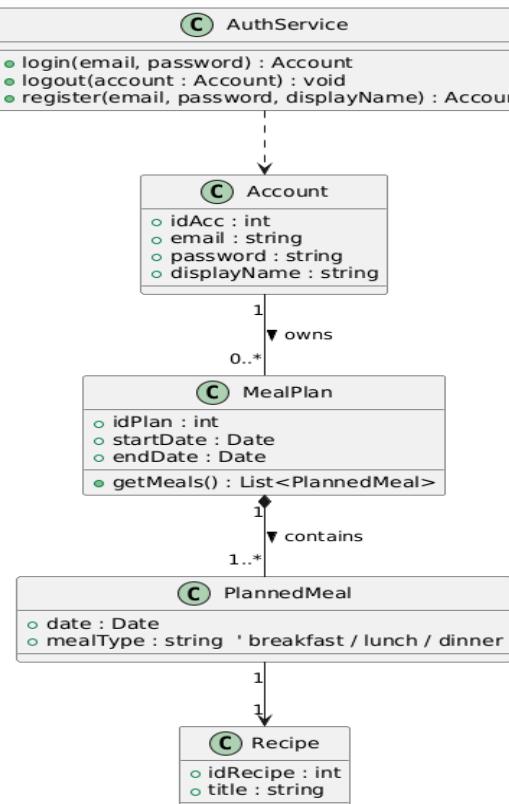


Wireframe by Yohann:

The wireframe shows a top navigation bar with a logo placeholder, a navigation menu (MealPlanner, Home, Meal, Recipes, Ingredients, Shop), and a user sign-in link. Below the navigation is a section titled "Tendances" displaying six meal thumbnails labeled "plat1". Underneath is a section titled "Meal liked" also displaying six meal thumbnails labeled "plat1". To the right, a sidebar titled "Next planned meal:" shows a meal thumbnail with the caption "Lunch for tomorrow: plat 1" and a "Link to the recipe" button. At the bottom right is a button labeled "Prepare your shopping list". The central area contains placeholder text for "About Us".

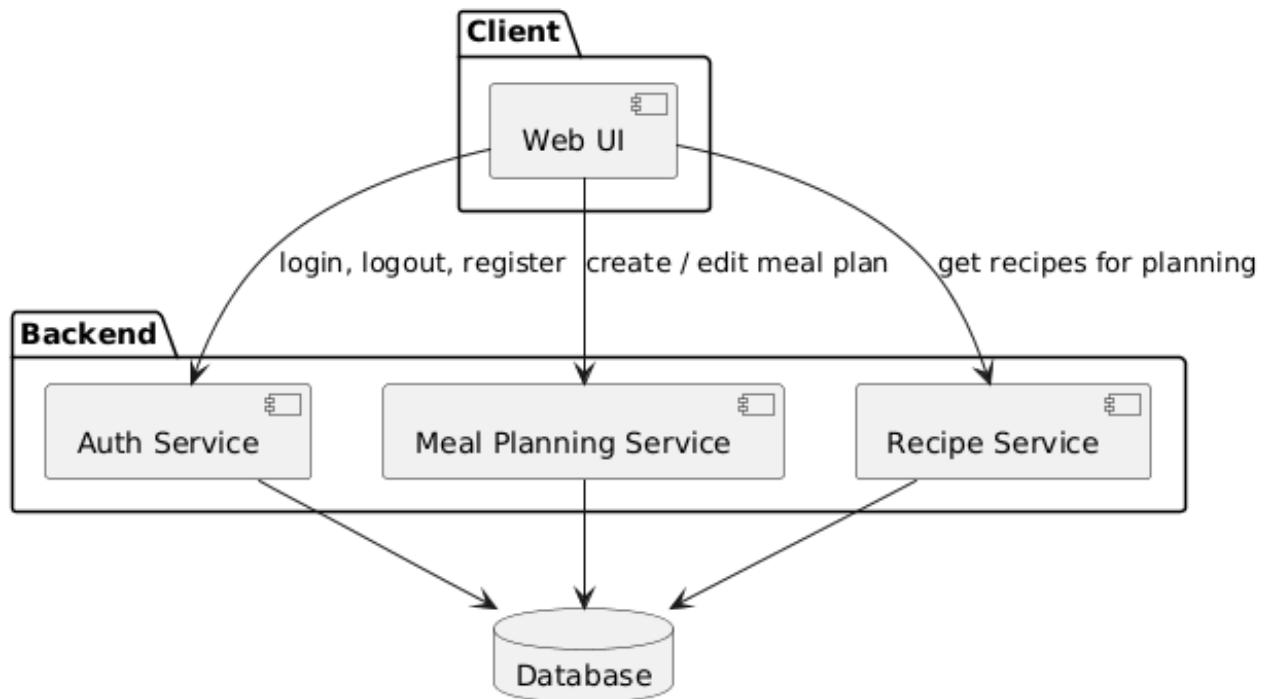
Class diagram by Yohann:

Class Diagram - Yohann (Login & Meal Planning)

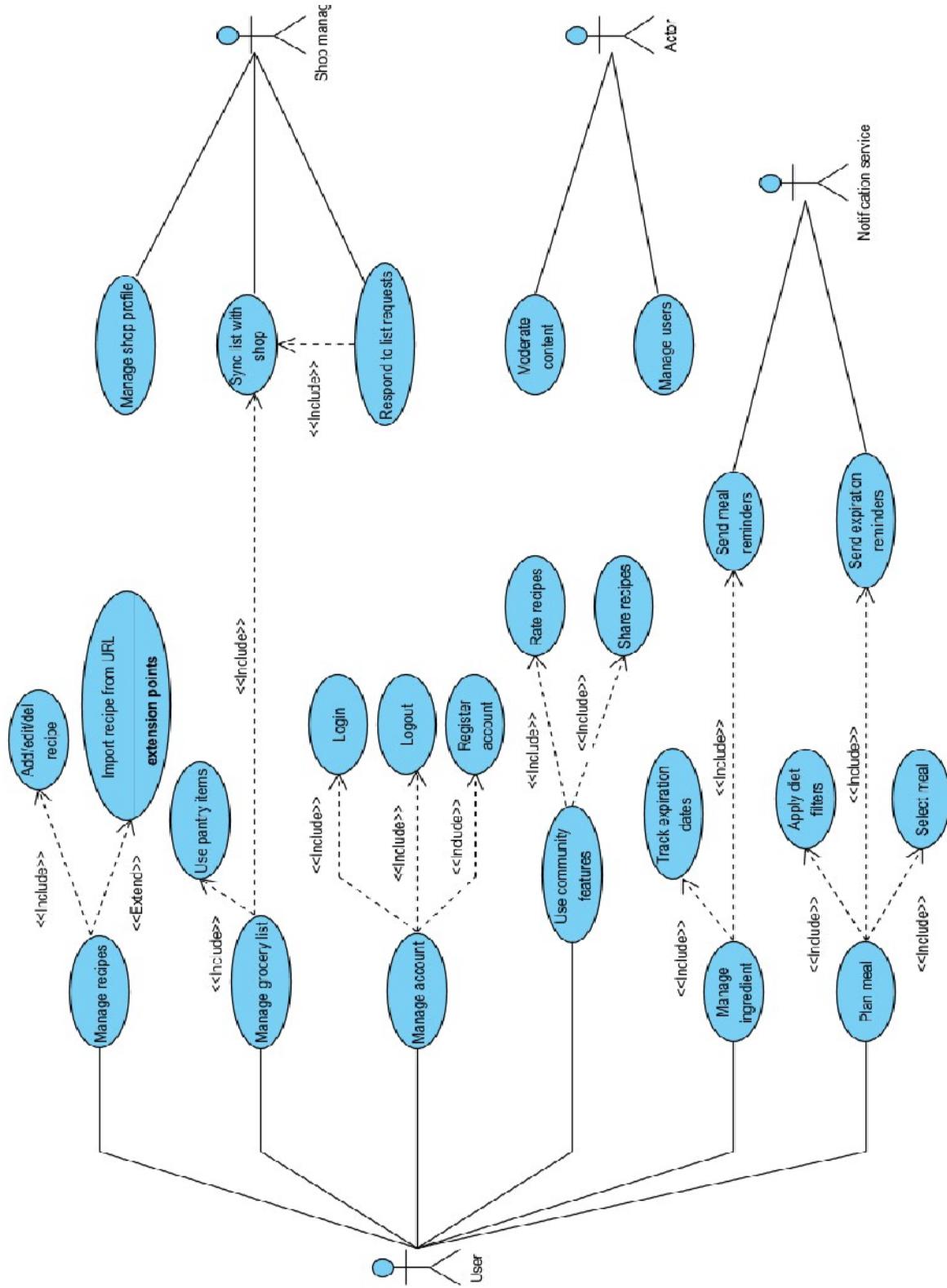


Component diagram by Yohann:

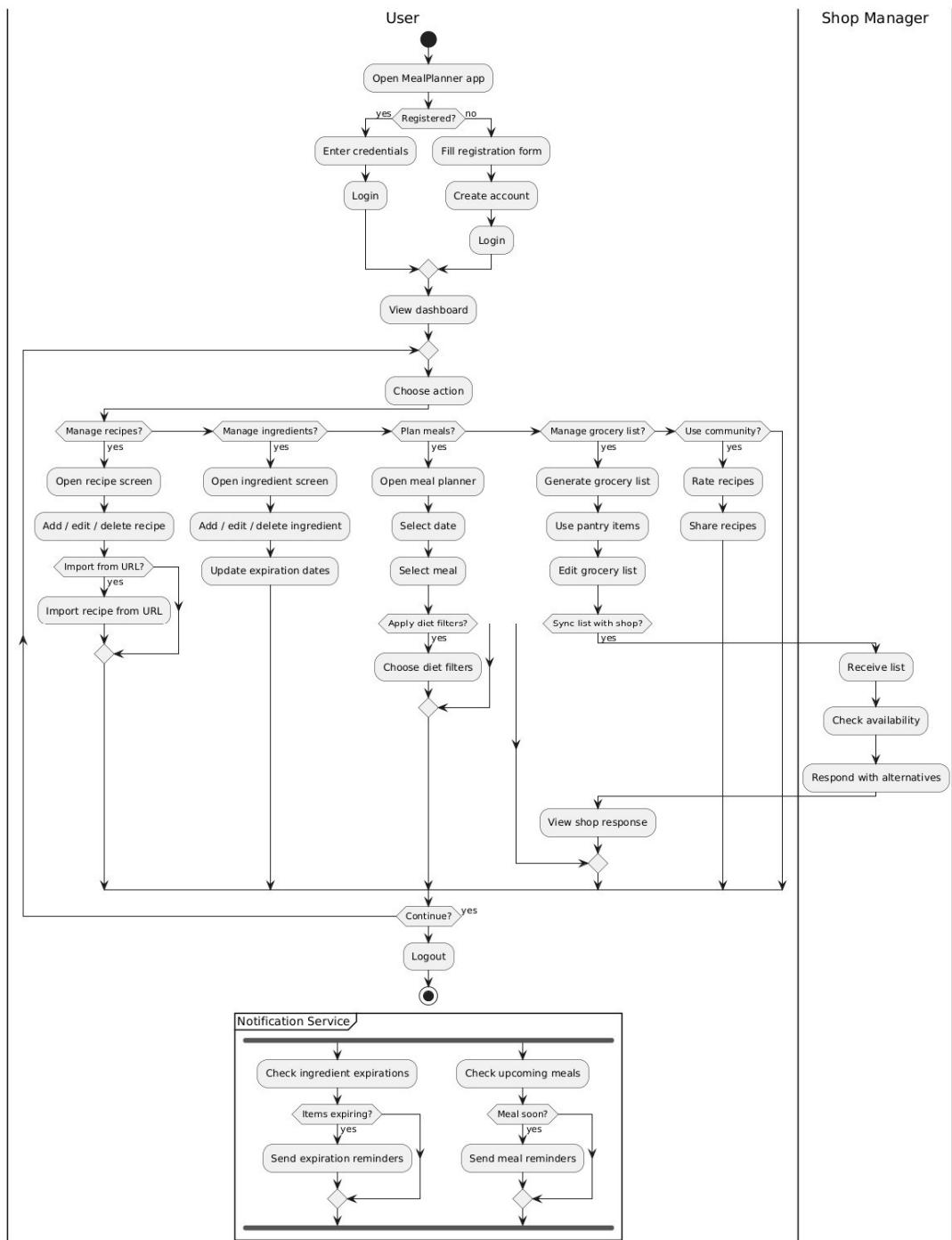
Component Diagram - Yohann (Authentication & Meal Planning)



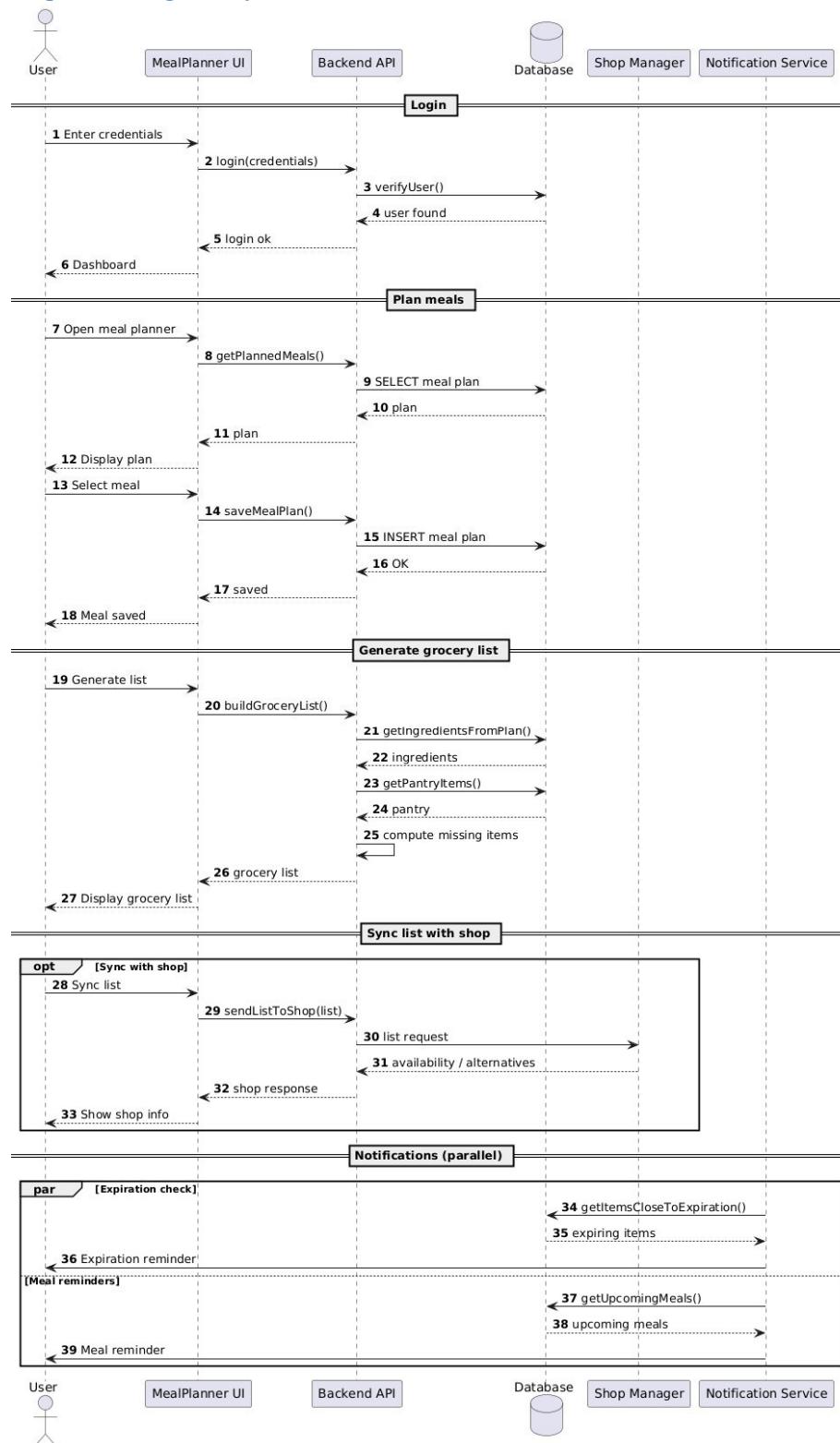
Use Case Diagram (Valentin):



Activity diagram by Valentin: Global possibilities



Sequence diagram by Valentin:

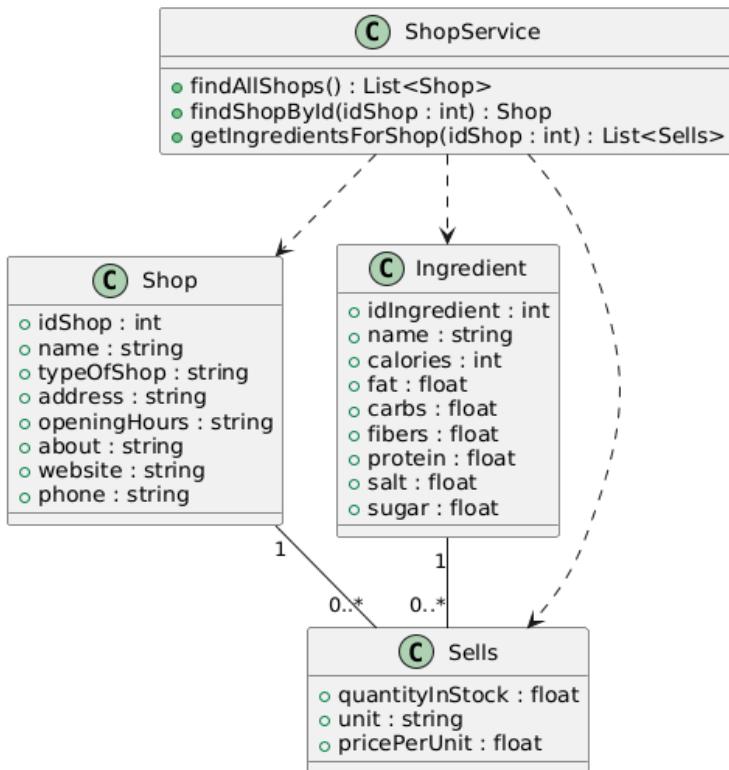


Wireframe by Valentin:

The wireframe shows a top navigation bar with a logo (orange rounded square), 'MealPlanner', 'Home', 'Meal', 'Recipes', 'Ingredients', 'Shop' (highlighted in bold), a user icon, and 'Sign in / Log in'. Below this is a large title 'Shop'. A search bar with a magnifying glass icon and a dropdown menu labeled 'Type' follows. To the left is a purple box containing a placeholder 'Shop picture'. To the right are sections for 'Shop name' (with placeholder 'Position'), 'Opening hours' (with placeholder 'HH-MM / HH-MM'), and an 'About' section with a long Latin text block. At the bottom are two buttons: 'View shop ingredients' and 'Website / Phone'.

Class diagram by Valentin:

Class Diagram - Valentin (Shops & Ingredients)



Component diagram by Valentin:

