

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 time, cooking time, 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 properties. 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 time, an about text information, a website link and a phone number.

Connector tables

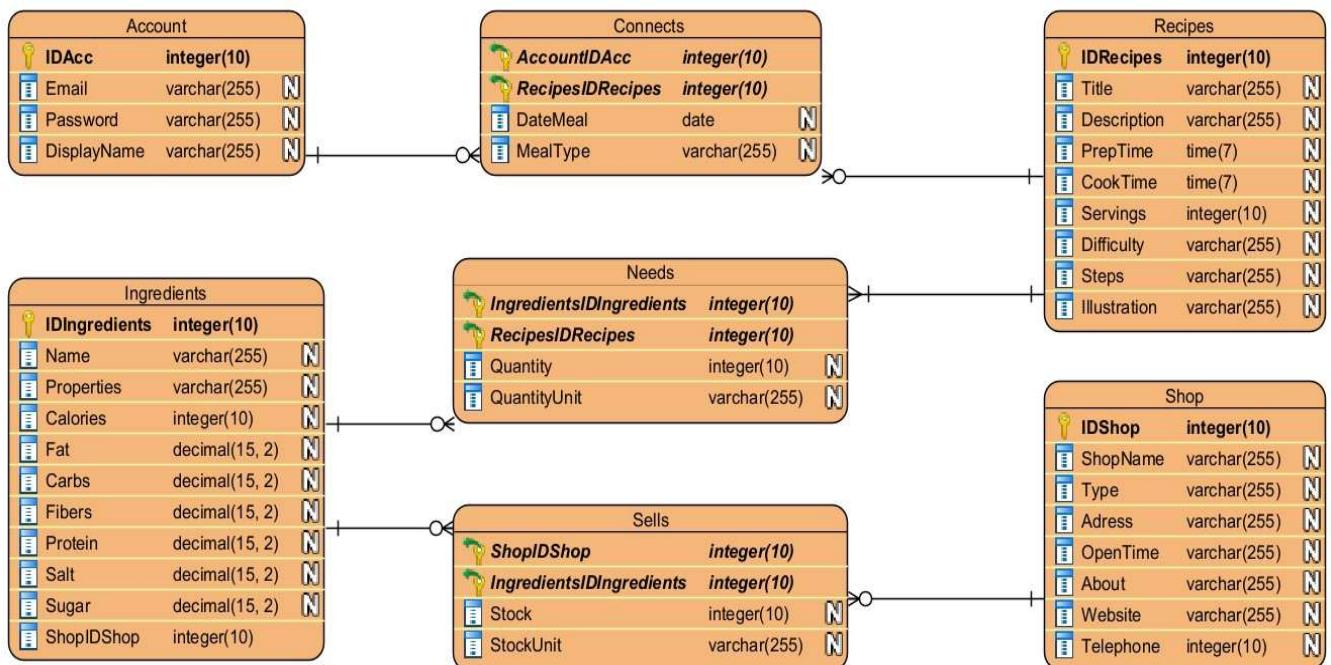
Several connector entities are used to manage relations:

- 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 properties
- Shop: shop informations

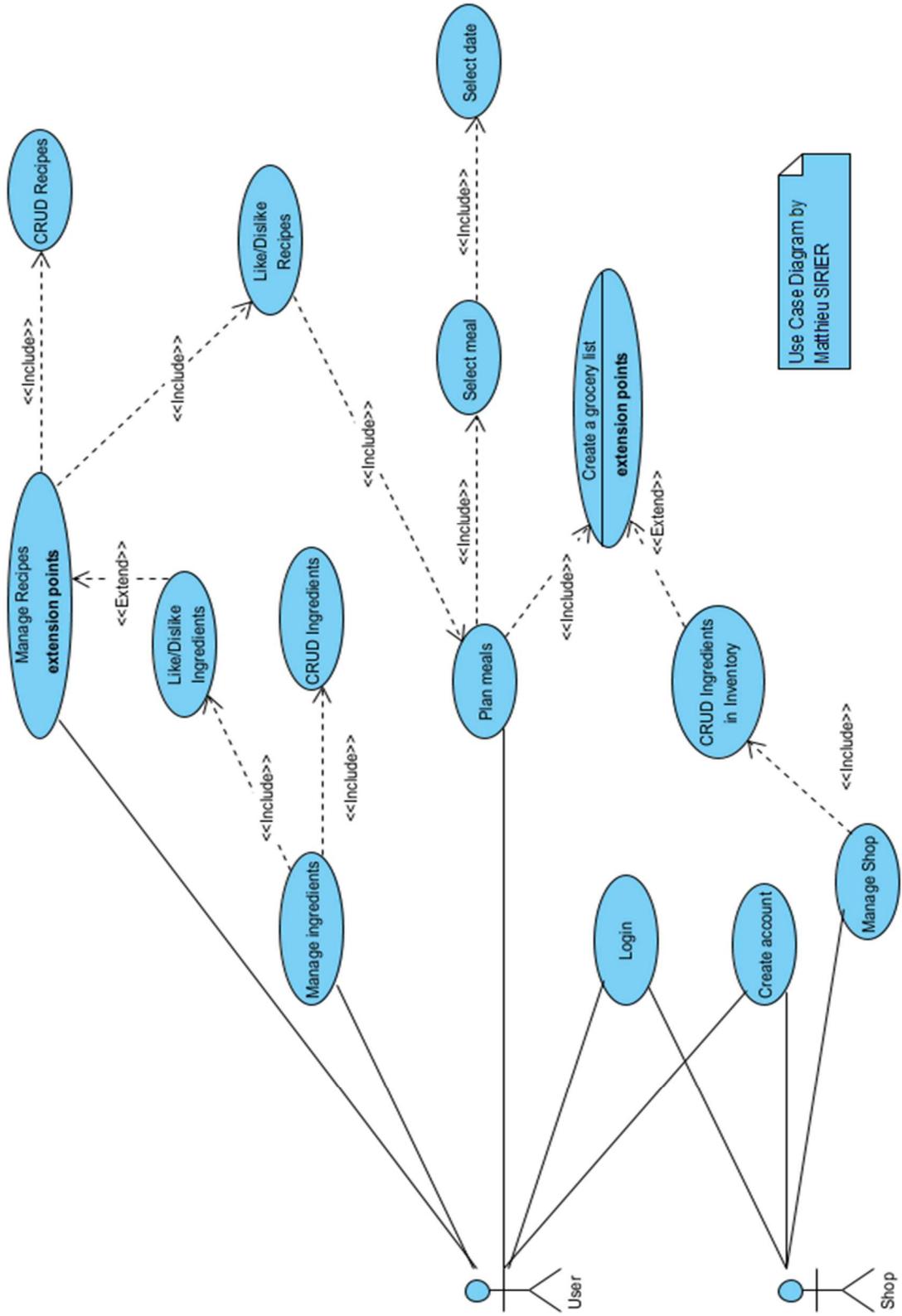
- Connects: relation between Account and Recipes
- Needs: relation between Recipes and Ingredients
- Sells: relation between Shops and Ingredients



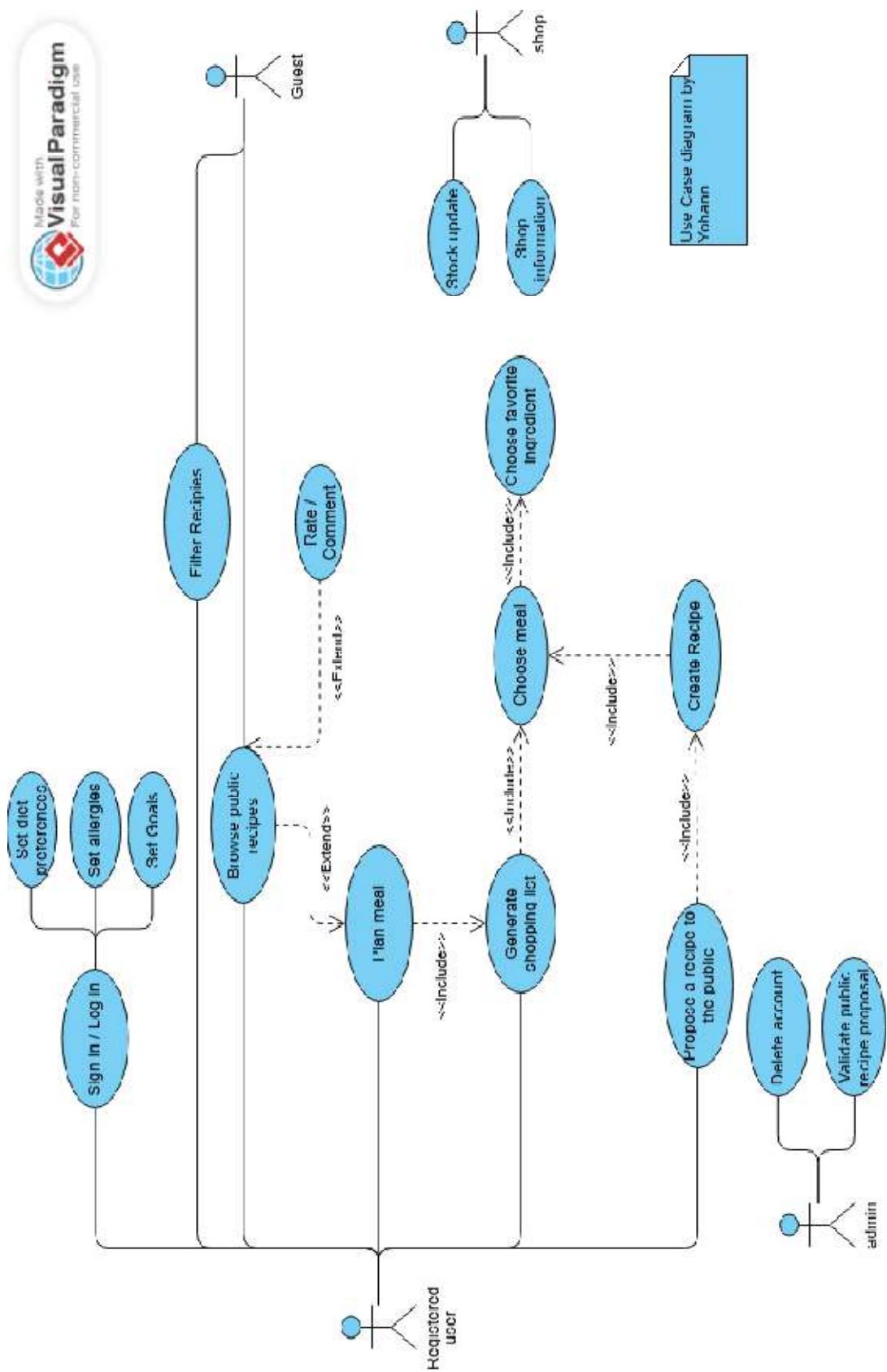
ER Diagram:



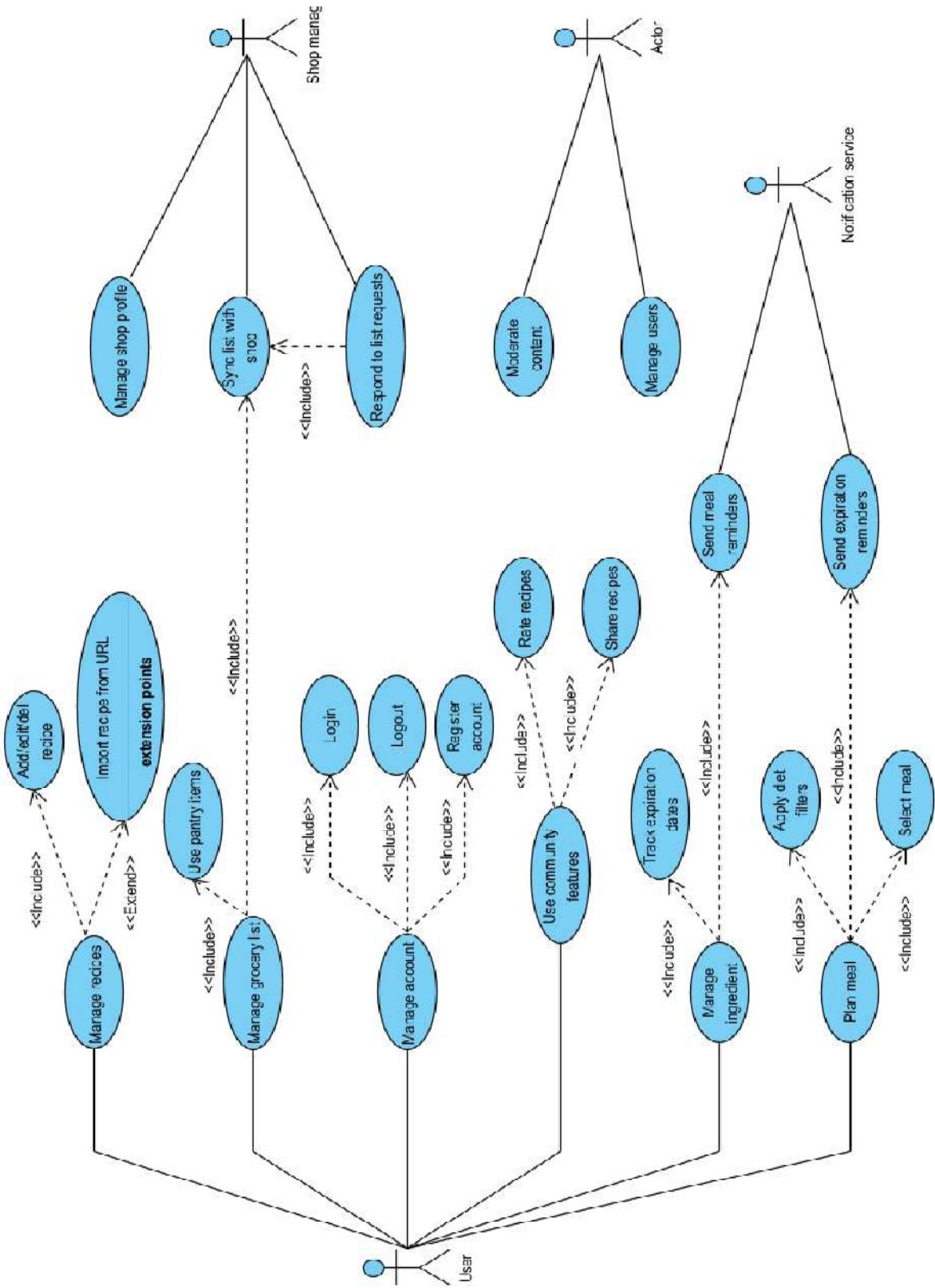
Use Case Diagram (Matthieu):



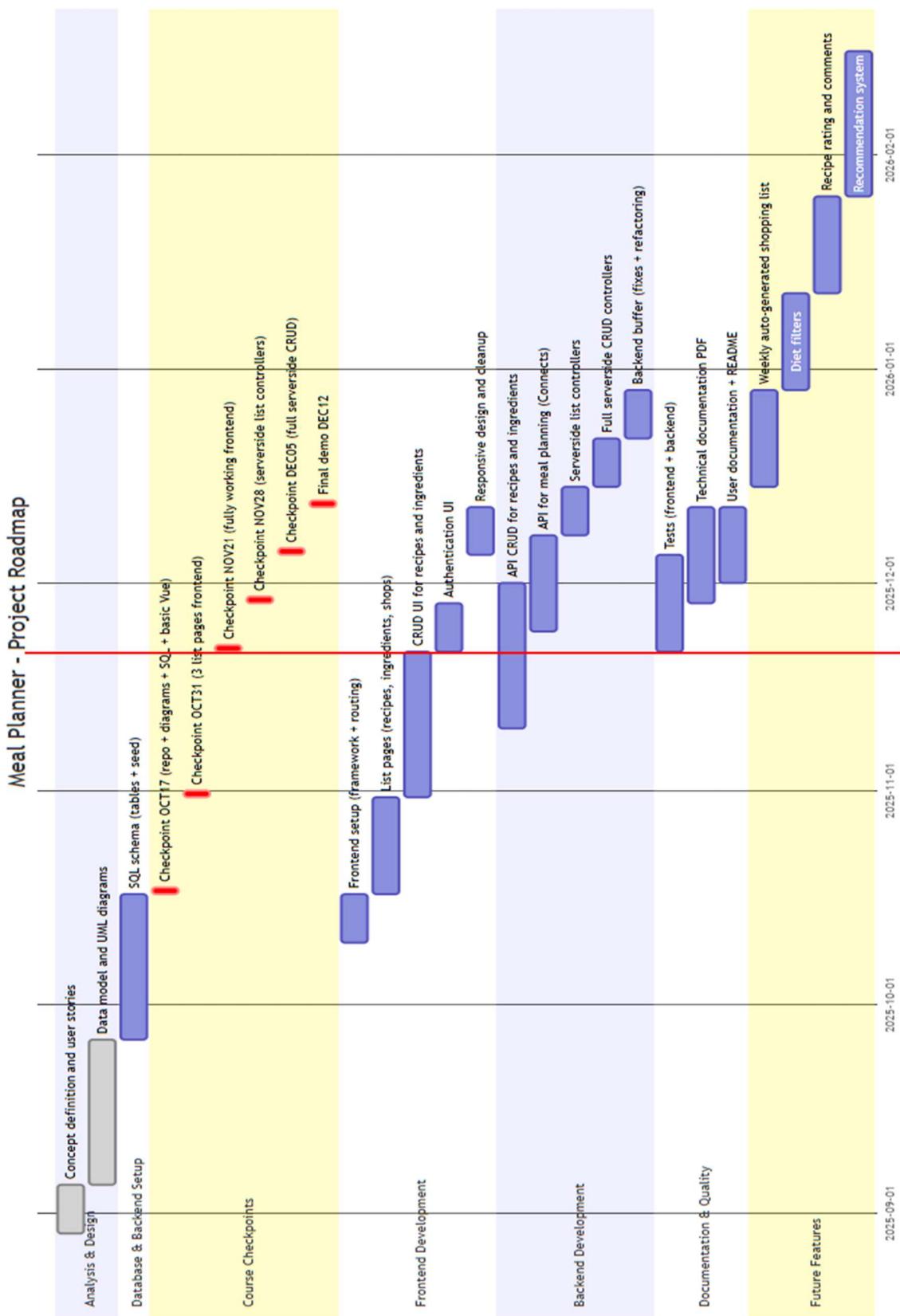
Use Case Diagram (Yohann):



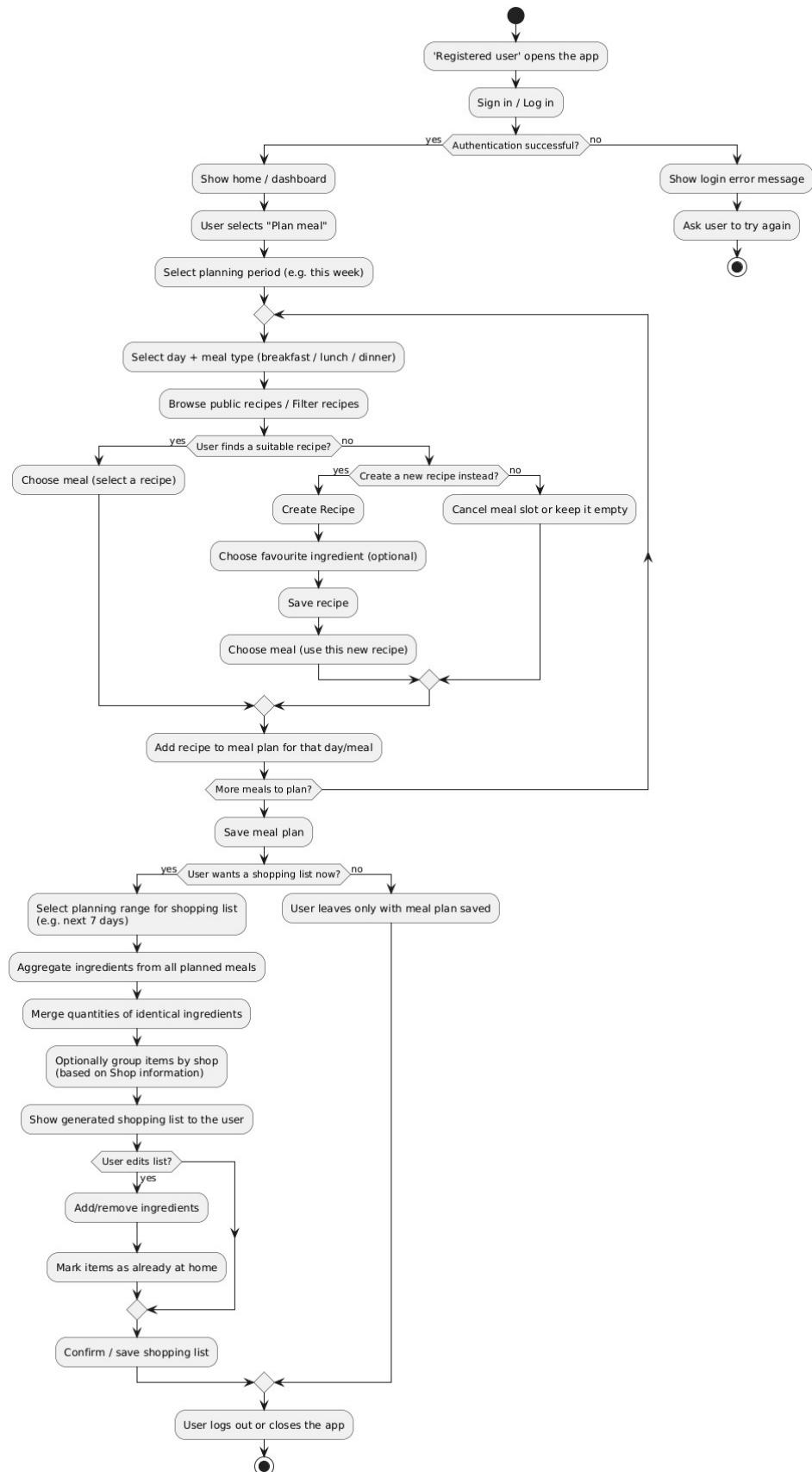
Use Case Diagram (Valentin):



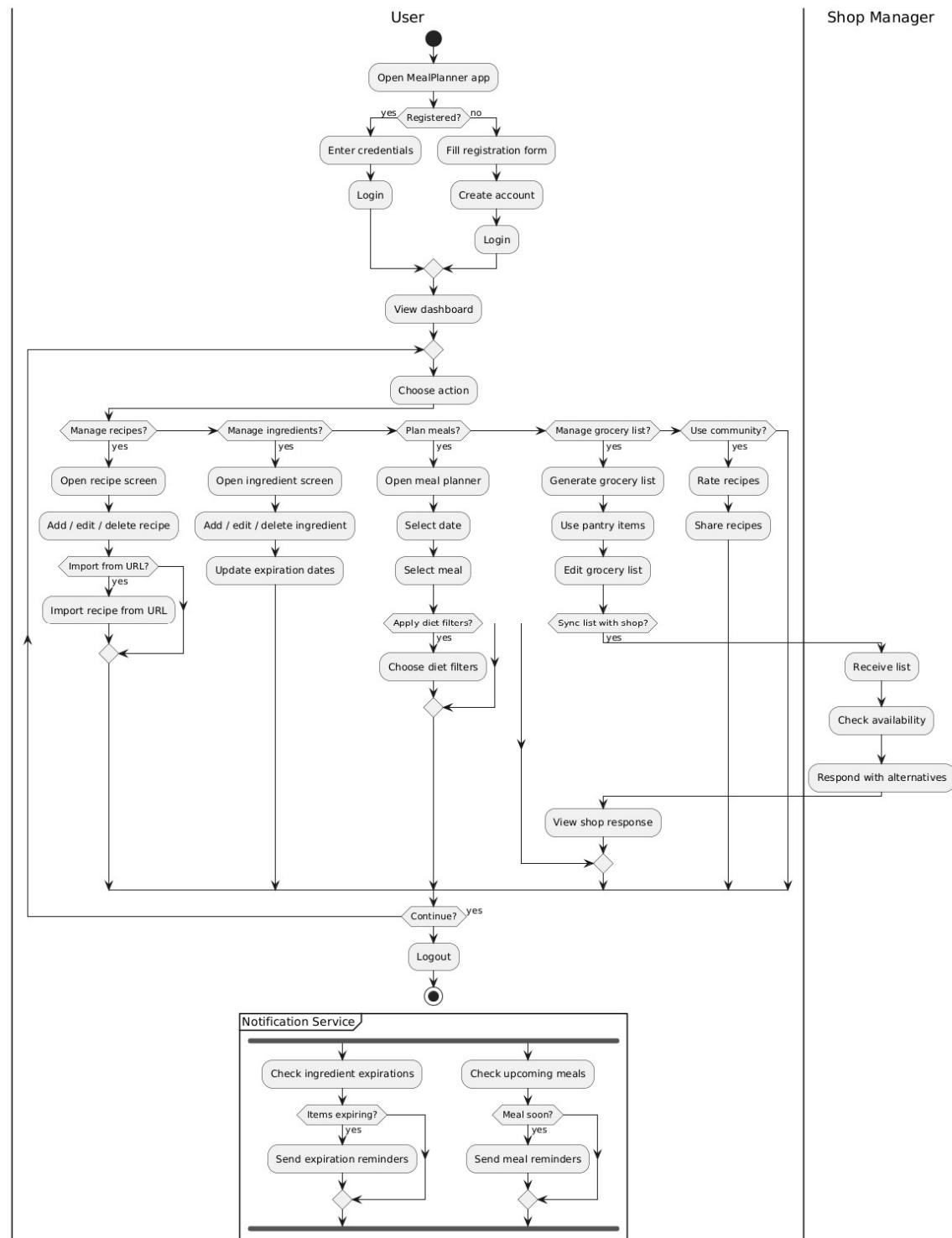
Gantt diagram:



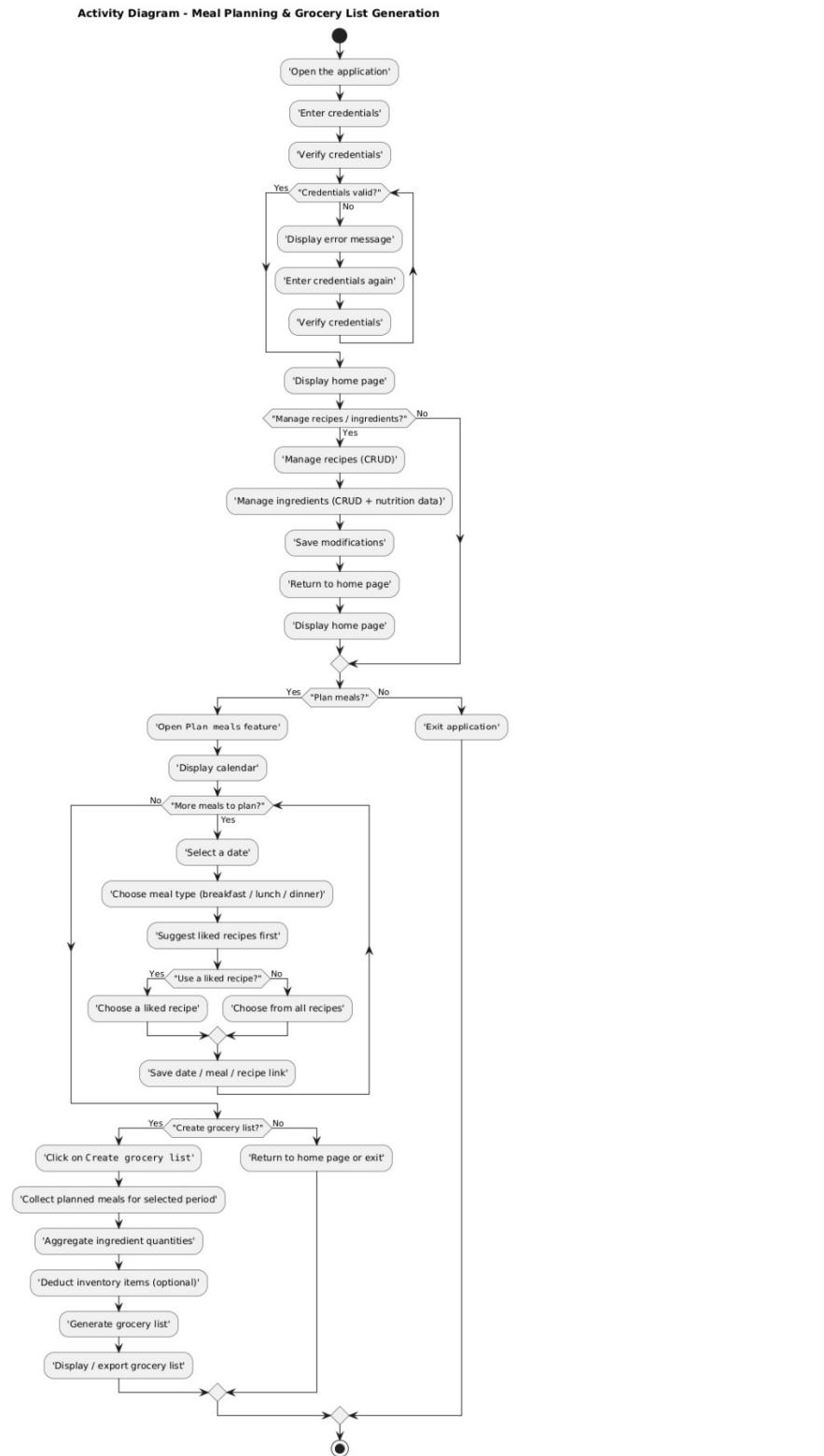
Activity diagram by Yohann : Login and meal planning



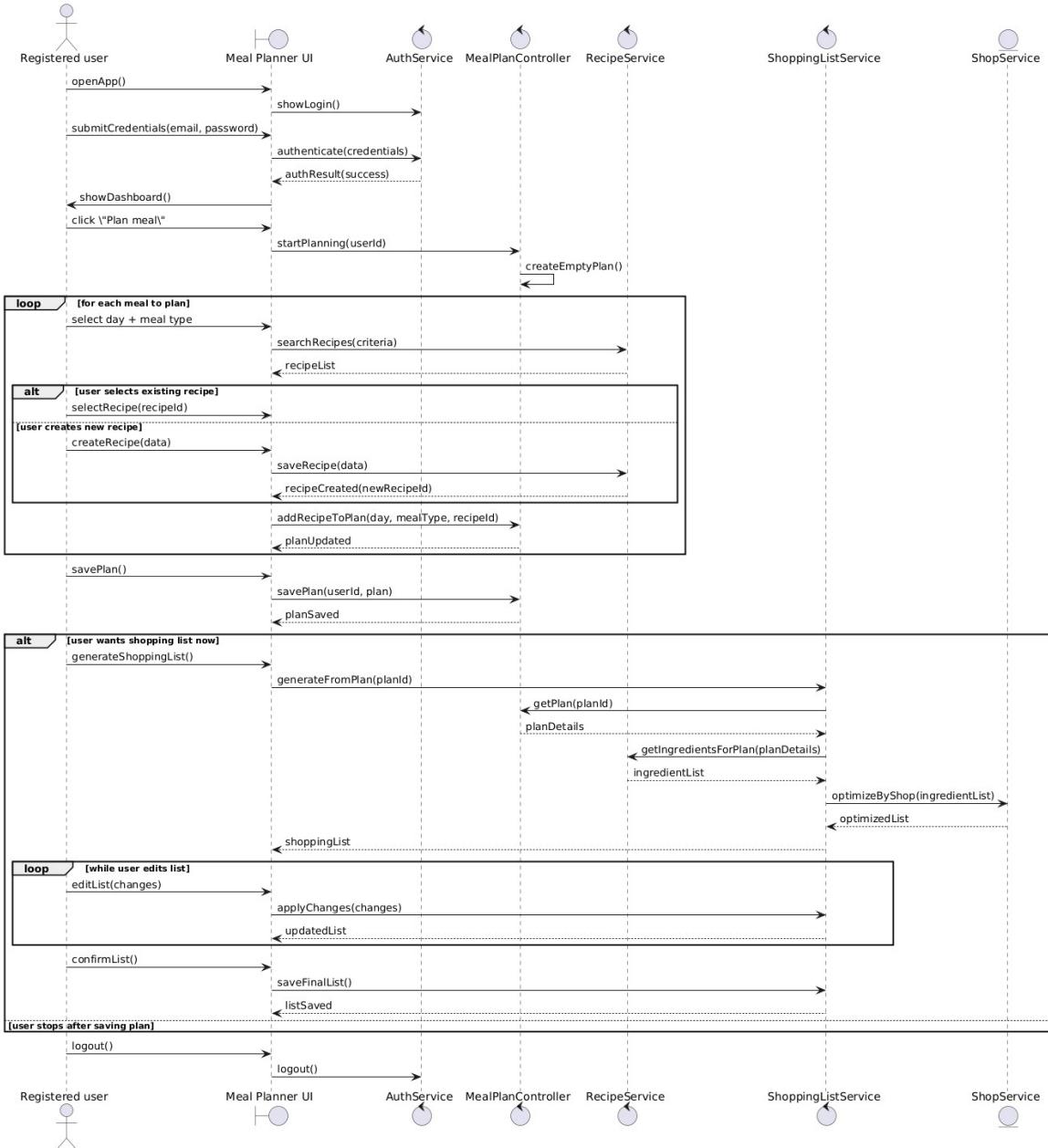
Activity diagram by Valentin: Global possibilities



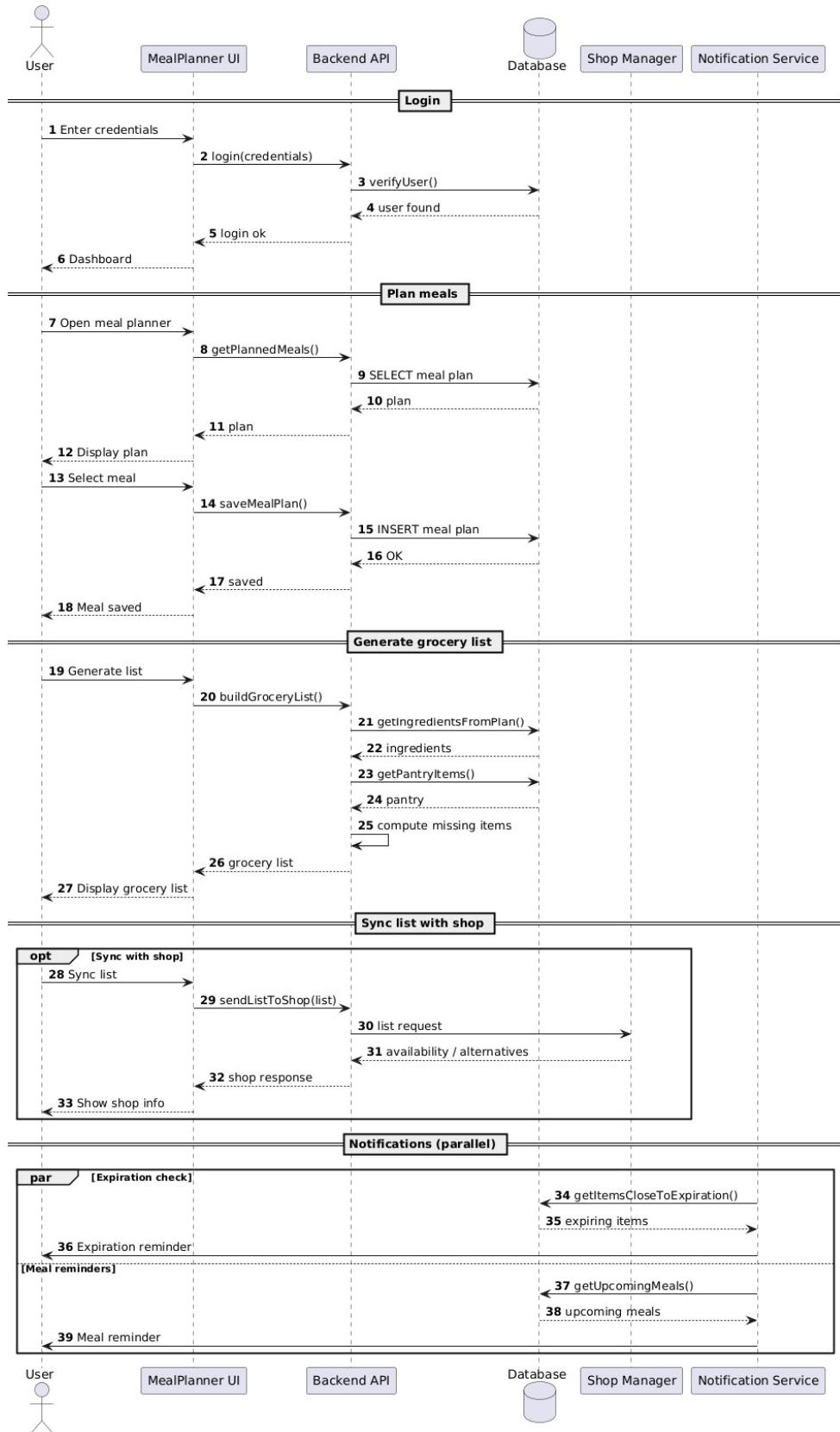
Activity diagram by Matthieu: Login, recipes management and meal planning



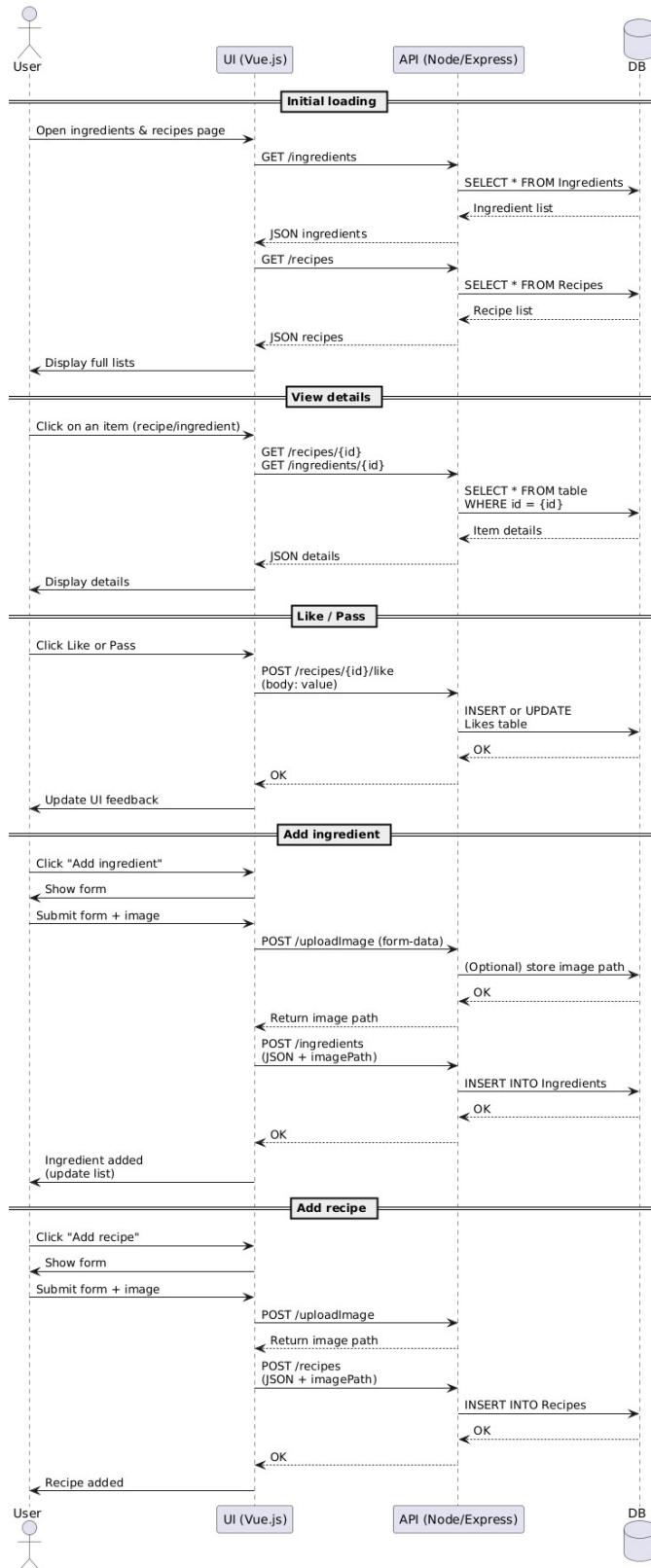
Sequence diagram by Yohann:



Sequence diagram by Valentin:



sequence diagram by Matthieu:



The wireframe shows a header with a logo, navigation links (MealPlanner, Home, Meal, Recipes, Ingredients, Shop), and a user sign-in link. Below the header are two rows of six meal thumbnails each, labeled 'plat1'. The first row is titled 'Tendances' and the second is titled 'Meal liked'. To the right is a sidebar titled 'Next planned meal:' showing a thumbnail for 'Lunch for tomorrow: plat 1' with a 'Link to the recipe' button. At the bottom right is a button for 'Prepare your shopping list'.

Tendances

plat1 plat1 plat1 plat1 plat1 plat1

Meal liked

plat1 plat1 plat1 plat1 plat1 plat1

About Us

Votre texte de paragrapheVotre texte de paragraphe

Next planned meal:

Lunch for tomorrow: plat 1

plat1

Link to the recipe

Prepare your shopping list

The wireframe shows a header with a logo, navigation links (MealPlanner, Home, Meal, Recipes, Ingredients, Shop), and a user sign-in link. Below the header is a large 'Shop' title. A search bar with a magnifying glass icon and a dropdown menu are present. To the left is a purple box containing a 'Shop picture' placeholder. To the right are fields for 'Shop name', 'Position', and 'Opening hours' (HH-MM / HH-MM). Below these are buttons for 'View shop ingredients' and 'Website / Phone'.

Shop

Search Type ▼

Shop name
Position
Opening hours
HH-MM / HH-MM

About

Existit autem hoc loco quaedam quaestio subdifficilis, num quando amici novi, digni amicitia, veteribus sint anteponendi, ut equis vetulis teneros anteponere solemus. Indigna homine dubitatio! Non enim debent esse amicitiarum sicut aliarum rerum satietates; veterrima quaeque, ut ea vina, quae vetustatem ferunt, esse debet suavissima; verumque illud est.

View shop ingredients **Website / Phone**

Wireframe by Matthieu:

