# Plateful: plan, shop, eat, repeat.

## **GROUP 2-8 PROJECT ANALYSIS**

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#### **PROJECT DESCRIPTION**

Title: Plateful

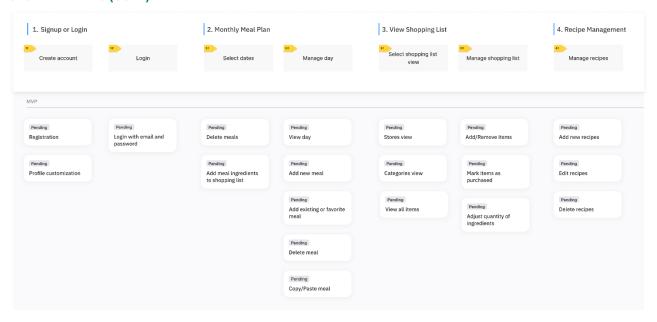
**Description:** Plateful is a personalized meal planning app that enables users to organize their monthly meals, store their favourite recipes, and manage shopping lists based on their meal plans. The app offers a fully customizable experience, where every recipe and meal plan are unique to each user, ensuring complete control over their meal choices and preferences.

#### **Functional Requirements**

Plateful will have the following core functionalities:

- Meal Planning:
  - Users can assign meals to specific days and generate a monthly overview
  - Users can copy or repeat meals across different days
- o Recipe Management
  - Users can add, edit, delete, and store their recipes
  - Users can categorize recipes by type (e.g., breakfast, lunch, dinner)
  - Users can favourite recipes for quick access
- Shopping List
  - o Users can manually select specific days from their meal plan to generate a shopping list
  - o Users can manually add or remove items from the shopping list
  - Users can view the shopping list and toggle between entire list view, category view, or store view
- o User Accounts & Personalization
  - o Each user will have their own personalized account with unique recipes and meal plans.

#### **STORY MAPPING (USER)**

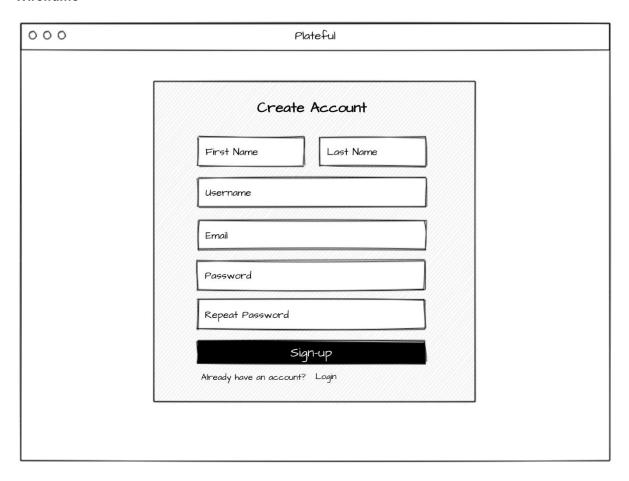


## (SELECTED) USER STORIES

## Story 1 - Signup

As a new user, I want to register for a Plateful account and customize my profile, so that I can start using the app.

#### Wireframe



- A user can create an account using a unique email address.
- The email must be validated to check if it is unique and properly formatted.
- If the email is already associated with an account, an error message is displayed: "Email already in use"
- The password must be at least 8 characters long, contain one uppercase letter, one number, and one special character.
- The password confirmation field must match the password entered. If the password does not match, an error is shown.
- All fields must be filled out to complete the registration. If any fields are left blank, an error is shown for each invalid field.
- Upon successful registration, the user is logged in and redirected to the home page (calendar).

#### Story 2 - Managing multiple dates

As a user, I want to select multiple days, so that I can add meals to my shopping list or delete multiple meals efficiently.

#### Wireframe:



- The calendar displays all meals per day in an overview with their names or pictures. Users can toggle between weekly and monthly view.
  - o If the calendar fails to load meals, an error message is displayed: "Unable to load meals."

    Please try again later."
- Users can select one or multiple days on the calendar to perform bulk actions (adding to the shopping list or deleting meals).
  - o Users will only be able to select days that contain planned meals.
- When selecting multiple days, all meals' ingredients for the selected days are consolidated into a shopping list.
  - o Users can review and modify the shopping list.
  - o If there is an issue generating the shopping list, display error: "Unable to generate shopping list. Please try again."
- Users can delete multiple meals across different dates at once.
  - o Deleting meals prompts a confirmation dialog before removal.
  - o If deleting the meals fails due to a system issue, display: "Unable to delete meals. Please try again."

#### Story 3 - Managing meals for individual days

As a user, I want to manage meals for a selected date, so that I can view, add, edit, delete, or copy meals for a specific day efficiently.

#### Wireframe:



- The user can click on a specific day to view meal details in a pop-up.
  - The pop-up displays the meal's picture, name, ingredients, cooking time, instructions, and category.
    - If the meal details fail to load in the pop-up, an error message is displayed: "Unable to load meal details. Please try again."
  - o Users can edit or delete the meal directly from the pop-up.
    - If the deletion fails, display the error message: "Unable to delete the meal. Please try again."
- The user can add a new meal to a specific day by providing the required information in a form.
  - The system prevents creating duplicate meals for the same day.
    - If a meal with the same name already exists on the selected day, display: "A meal with this name already exists for the selected date."
  - Required fields like meal name, ingredients, and instructions must be filled before saving.
    - If required fields are empty, display an error message next to the empty fields.
- The user can add an existing or favourite meal to the selected day.
  - A pop-up displays previously added or favourite meals, allowing users to choose one.
    - If there is a system issue fetching the list of meals, display: "Unable to load favourite or existing meals. Please try again."
    - If the meal fails to be added, display: "Unable to add the meal. Please try again."
- The user can copy and paste meals from one day to another within the calendar.
  - Users can copy a meal from past or current dates and paste it to a selected date.
    - If the meal already exists for the target day, display: "A meal with this name already exists on the selected date."

## Story 4 - Shopping List

**As a** user, **I want to** see the generated shopping list from my selected days, **so that I can** shop only for the ingredients I need during a selected period.

#### Wireframe:

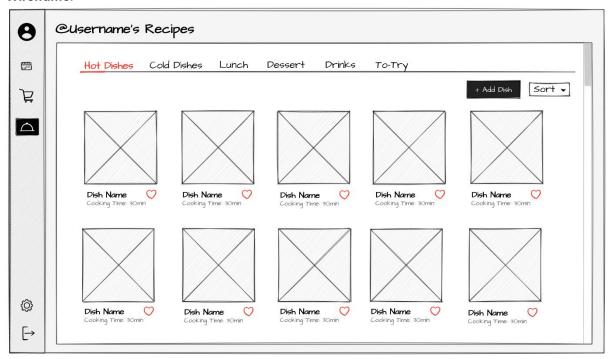


- The shopping list includes the ingredients from the recipes assigned to the selected days.
- The user can toggle between different list views: stores, category, view all (ordered alphabetically).
- Users can check off items from the list while shopping. Checked-off items are visually crossed out and greyed out.
- The shopping list is automatically saved to the database after any changes.
- If there's a connection issue or failure to save changes, display: "Unable to save changes. Please try again."
- Users can add or remove items manually from the shopping list.
- Users can increase or decrease the quantity of items.
- Deleting an item prompts a confirmation dialog: "Are you sure you want to remove this item from your shopping list?"
- If the shopping list is empty, display: "Your shopping list is empty."

#### Story 5 - Recipe Management

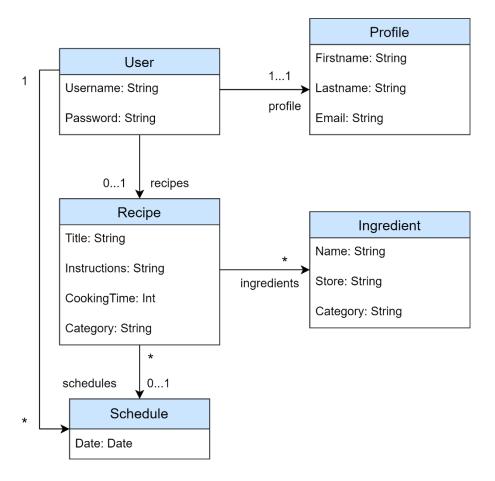
• As a user, I want to add, edit, delete, and store my recipes, so that I can have easy access to the recipes I like to cook frequently.

#### Wireframe:

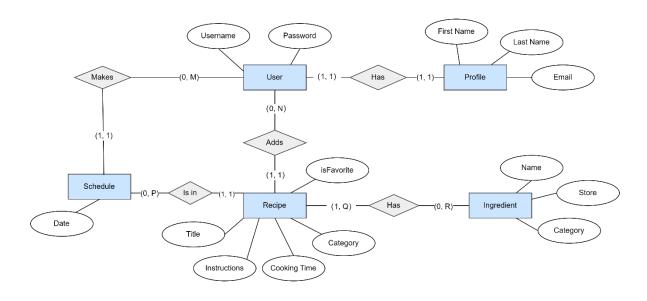


- Users can create a recipe with fields for title, ingredients, instructions, cooking time, categories and isFavourite.
  - o The form validates that the title, ingredients, and instructions fields are filled in.
  - o If any required fields are empty, an error message should display for each invalid field.
- Users can edit and update existing recipes.
  - o If the user attempts to leave the editing page without saving changes, display: "You have unsaved changes. Are you sure you want to leave?"
- Users can delete recipes, and the recipe is removed from the database.
  - Deleting a recipe prompts a confirmation dialog: "Are you sure you want to delete this recipe?"
- Users can mark recipes as favourites.
- If the user tries to save a recipe with duplicate titles, display: "A recipe with this title already exists".

## **DOMAIN MODEL**



## **CONCEPTUAL MODEL**



## **LOGICAL MODEL**

