**Recipe & Meal Planning Manager**

# **Phase-1:**

The **Recipe & Meal Planning Manager** is an application designed to simplify meal organization and planning. It helps users track recipes, manage ingredients, and plan weekly meals efficiently. Users can add new recipes, assign them to days of the week, and automatically generate a shopping list for all planned meals.

Beyond convenience, the system provides insights such as the most-used recipes, popular ingredients, and meal trends. It uniquely combines inventory tracking, scheduling, and lifestyle management into a single solution—something rarely explored in typical student projects.

### **Requirement Gathering:**

Meal planning can get overwhelming when juggling recipes, ingredients, and weekly schedules. This system enables users to:

* Organize recipes with details like ingredients, instructions, preparation time, and meal type (breakfast, lunch, dinner, snacks).
* Plan meals for the week by assigning recipes to specific days.
* Generate a shopping list automatically based on the planned meals.
* Monitor trends, like favorite recipes and commonly used ingredients.
* Optionally, track nutritional information for healthier meal planning.

### **Stakeholder Analysis:**

* **Primary User:** The individual managing the meals, acting as both admin and end-user.
* **Admin Role:** Manages recipes, ingredients, meal plans, and automation rules.
* **End-User Role:** Adds recipes, plans meals, and generates shopping lists in a simple, visual interface.
* **Secondary Users:** Family or friends (if meal plans are shared).

### **Business Process Mapping:**

* **Add a New Recipe:** User creates a recipe with ingredients, instructions, preparation time, and category.
* **Plan a Meal:** Recipes are assigned to specific days of the week, creating a weekly meal plan.
* **Generate Shopping List:** The system automatically compiles all ingredients into a single list for easy grocery shopping.
* **Review & Reflect:** Users can see which recipes they use most, favorite ingredients, and overall meal patterns to optimize planning.

### **Industry-specific Use Case Analysis:**

* **Inventory Management:** Ingredients are treated like stock items, consumed as meals are planned.
* **Product Management:** Recipes act like products with multiple components (ingredients).
* **Scheduling:** Weekly meal plans function like task schedules in business applications.
* **Health & Lifestyle:** Helps users maintain a balanced diet and organized meal routines.

### **AppExchange Exploration:**

* Examined apps related to recipe tracking, food services, and inventory management to understand best practices.
* Gained insights into structuring data, automating recurring tasks, and visualizing trends.
* The functionality will be implemented using built-in tools like custom objects, flows, and dashboards, making the solution simple yet effective.”

### 