**Open-Ended Project**

**Meal Planner Application**

**Problem statement**

People often struggle with daily meal planning and grocery shopping, resulting in unwanted stress, inefficiency, and poor decision-making regarding family nutrition.

**Proposed solution:**

A Meal Planner Application could be a solution to that problem. It could provide the user the ability to:

1 – Enter the usual recipes the family commonly consumes.

2 – Store the necessary ingredients required for those recipes.

3 – Allow users to plan meals for specific dates, specifying lunch, and dinner.

4 – Track the recent meals to be more conscious about family nutrition.

5 – Generate a shopping list based on the meal plan.

**Possible features:**

* Add ingredients.
* Delete ingredients.
* Add recipe: Create a new recipe with a name, type (main, accompaniment), and ingredients.
* Edit recipe.
* Delete Recipe.
* Plan Meal: Choose the meal/s from the recipes to prepare for a future day.
* Create an automatic meal plan: Choose a range of days to automatically create a meal plan.
* Provide the ability to view and modify existing meal plans.
* Delete a planned day.
* Check a meal planned as done.
* Check a meal planned as skipped.
* Create a shopping list from the planned meals.
* View meals history: Select a range of days to view meals history.
* Database Management

**Other possible implementations:**

- Desktop GUI: WPF

- Web App: ASP.NET Core