Search for Recipes

- Users should be able to search recipes by ingredient and by name.
- Users should be able to display all recipes by clicking a button.
- For the output, the list of recipes should update based on the search/show all.
- By default, all recipes are shown (when opening the app/navigating to recipes/overview).

Data Analytics

Charts will be displayed in an expandable section on the recipes overview page and will be updated based on the displayed recipes (if the user searches for specific recipes which are then displayed, the charts will be updated accordingly).

Bar Chart: Display the count of recipes based on their difficulty levels.

- **X-axis:** Difficulty levels (e.g., Easy, Medium, Hard)
- **Y-axis:** Number of recipes
- **Label:** "Number of Recipes by Difficulty Level"

Pie Chart: Show the distribution of recipes categorized by their cooking time ranges.

- **Slices:** Cooking time ranges (e.g., 0-30 minutes, 31-60 minutes, 61+ minutes)
- **Label:** "Distribution of Recipes by Cooking Time"

Line Chart: Visualize the average cooking time of recipes categorized by difficulty levels.

- **X-axis:** Difficulty levels (e.g., Easy, Medium, Hard)
- **Y-axis:** Average cooking time (in minutes)
- **Label:** "Average Cooking Time by Difficulty Level"

Execution Flow

```
Start → User Lands on Homepage → User Logs In → User Lands on Recipes Overview → Searches for Recipes Using an Ingredient → User Views Analytics
                                                                                                                                    ↓
                                                                                                                           User Closes Analytics
                                                                                                                                    ↓
User Clicks Show All ← User Views Analytics ← Searches for a Non-existent Recipe by Name ← User Goes Back to Recipes Overview ← User Opens Up a Recipe Detail
        ↓
User Views Analytics
        ↓
User Opens Up a Recipe Detail → User Logs Out → End
```