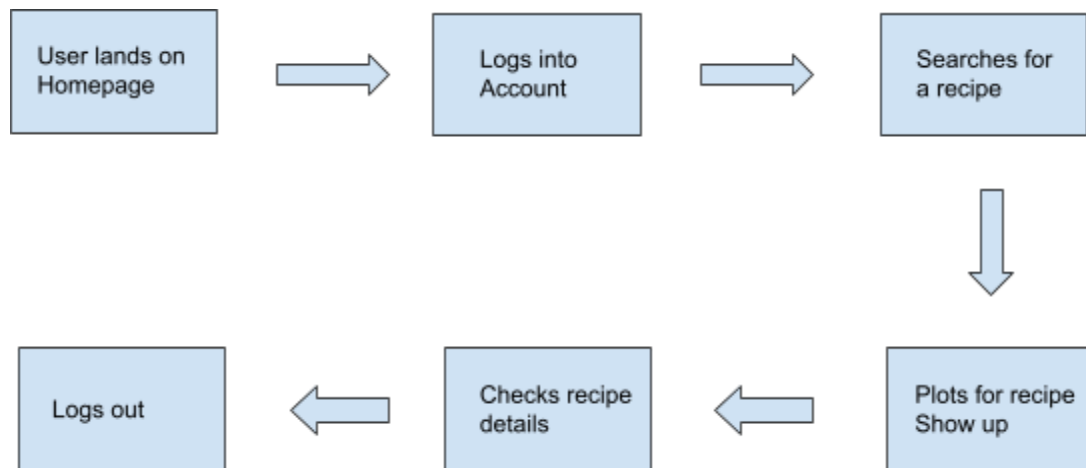## Exercise 2.7:

- Search for recipes by difficulty
- Find recipes containing certain ingredients
- Filter by cooking time
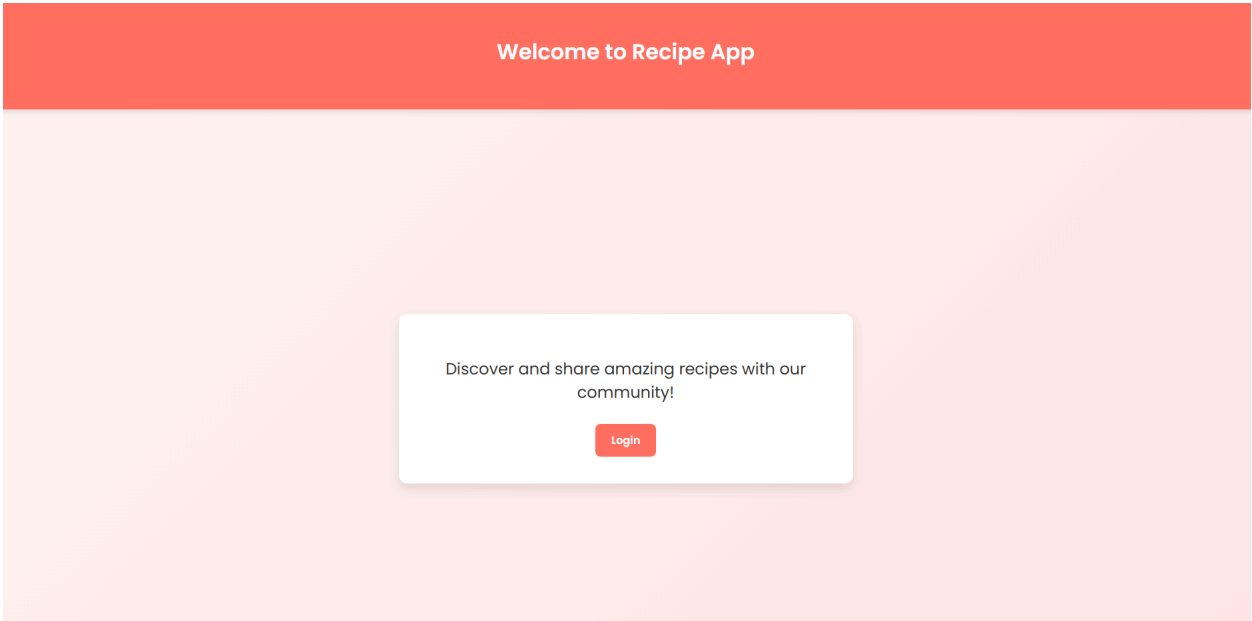- Filter by difficulty of recipe

Data Analysis:

- **Bar Chart** - Y Axis: Cooking Time, X Axis: Recipe Name
- **Line Chart** - Y Axis: Cooking Time, X Axis: Recipe index
- **Pie Chart** - Percentage of cooking time, category names with percentages, visual breakdown of recipes
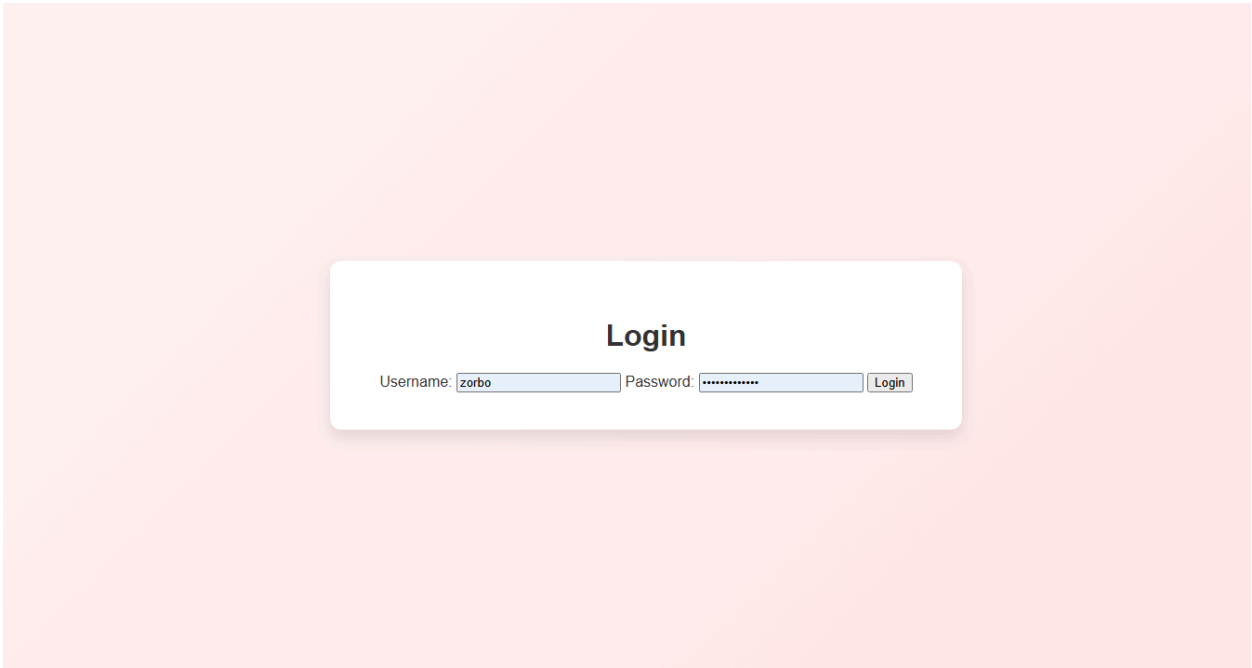
Execution Flow:

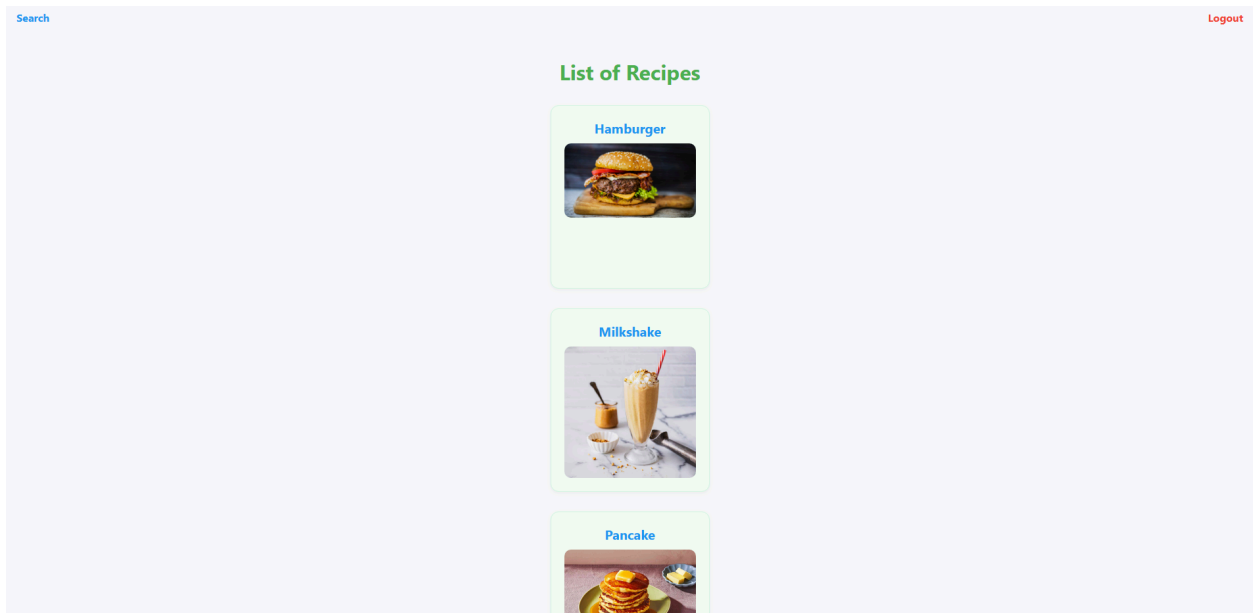| User lands on Homepage	→	Logs into Account	→	Searches for a recipe

(Searches for a recipe → Plots for recipe Show up)

Logs out	←	Checks recipe details	←	Plots for recipe Show up

User Journey:

Welcome to Recipe App

Discover and share amazing recipes with our
community!

Login

Home Screen

Login

Username: zorbo   Password: ●●●●●●●●●●●●   Login

Login

List of Recipes

Hamburger

Milkshake

Pancake

User Clicks on Search

Search Recipes

Recipe difficulty: [Choose a difficulty level ▾]

Chart type: [Bar chart ▾]

[Search]

User then chooses a difficulty and the chart type

Search Recipes

Recipe difficulty: [Medium ▾]

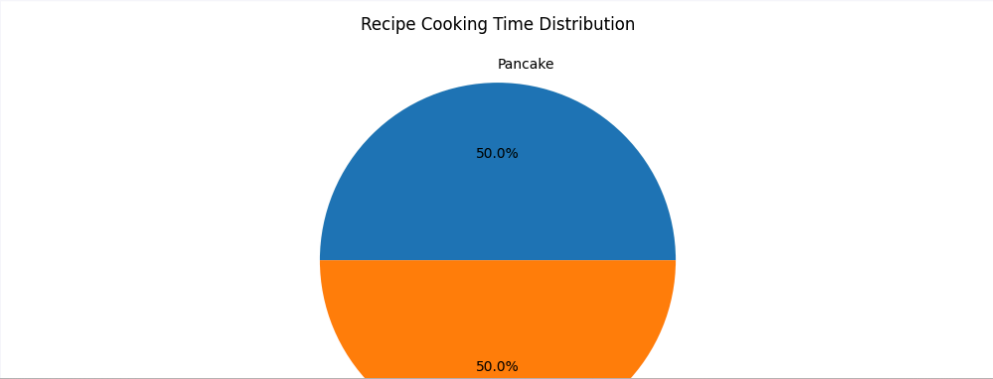Chart type: [Pie chart ▾]

[Search]

Search Results:

Name	Difficulty	Cooking Time	Picture
Pancake	Medium	10	
Hamburger	Medium	10	

Chart:

Recipe Cooking Time Distribution

Pancake

50.0%

50.0%

User clicks on "Pancake"

Recipe: Pancake

Name: Pancake
Description: Pancakes are fluffy, golden rounds of deliciousness, made from a simple batter of flour, eggs, milk, and a touch of sweetness. Perfectly cooked on a griddle, they're soft and airy inside with a lightly crisp edge. Often stacked high and topped with butter, maple syrup, fresh fruit, or whipped cream, pancakes make for a comforting and classic breakfast favorite loved by all ages.
Ingredients: Flour, Eggs, Milk, Butter, Sugar, Vanilla Extract
Cooking Time (in minutes): 10
Difficulty: Medium

User is directed to the recipe details page of the pancake recipe

You have been logged out successfully! Login again

User then clicks logout and is directed to the success page