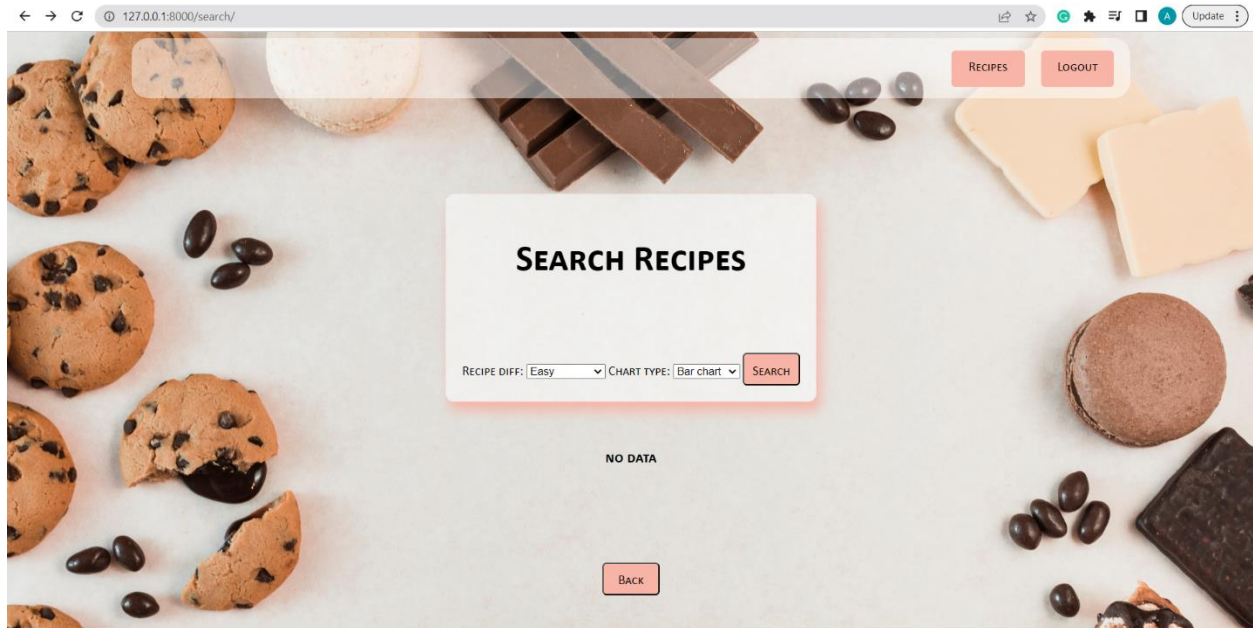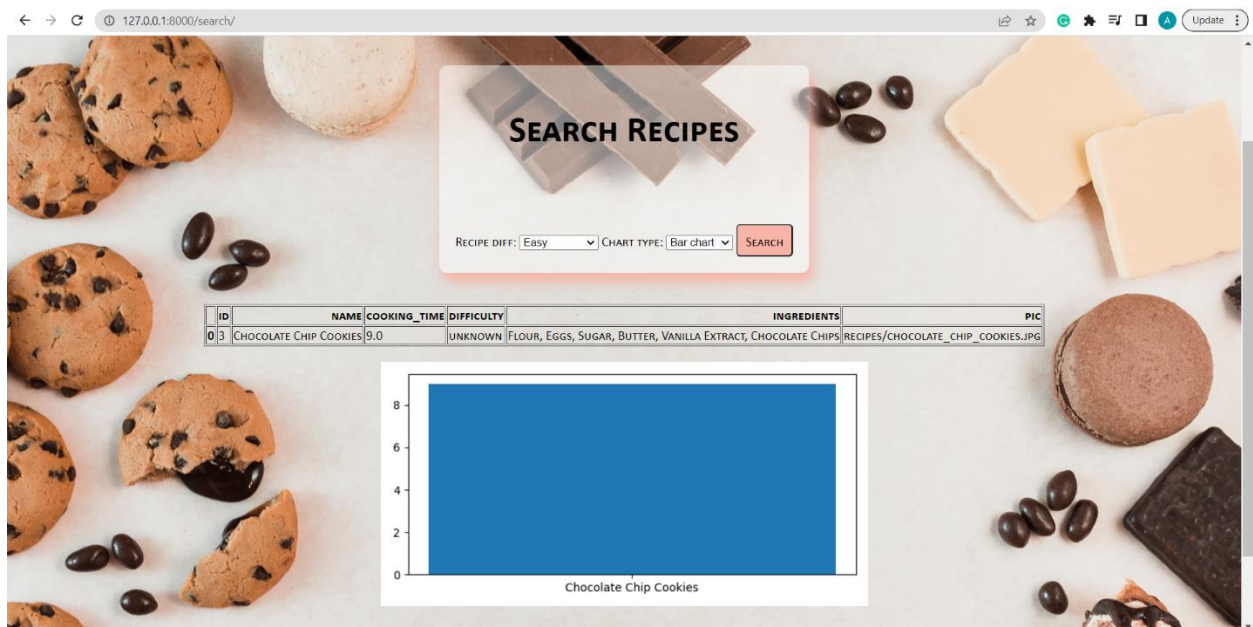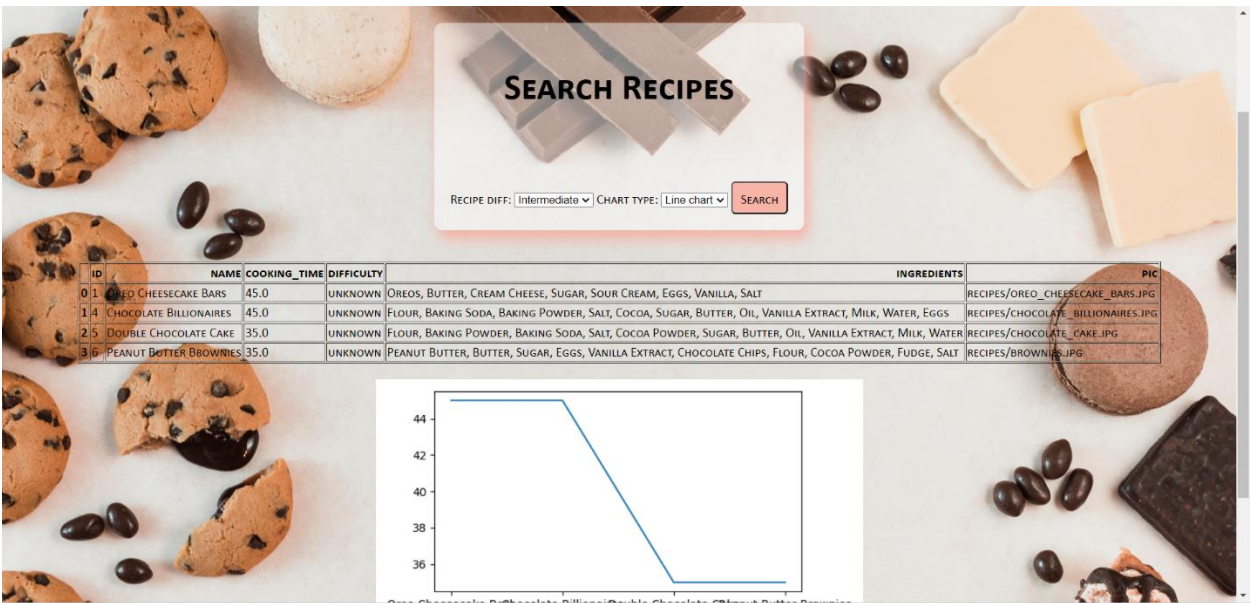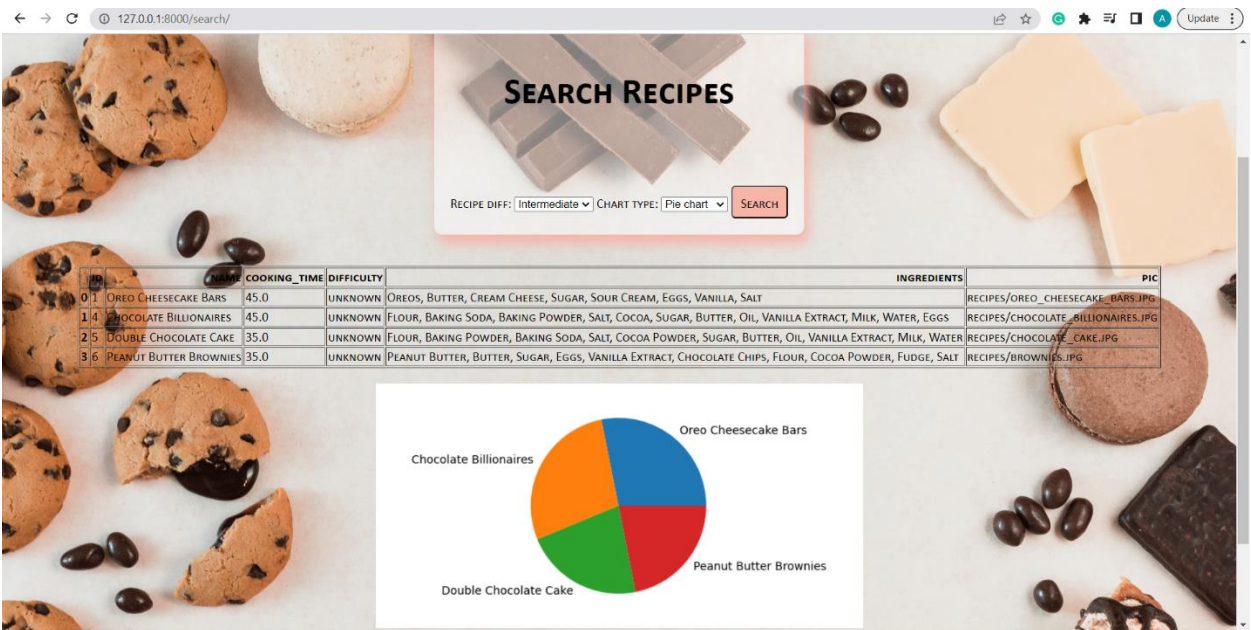Task 2.7

Data Analysis

Users should be able to choose the difficulty level of a recipe and the type of chart they want to display the data.
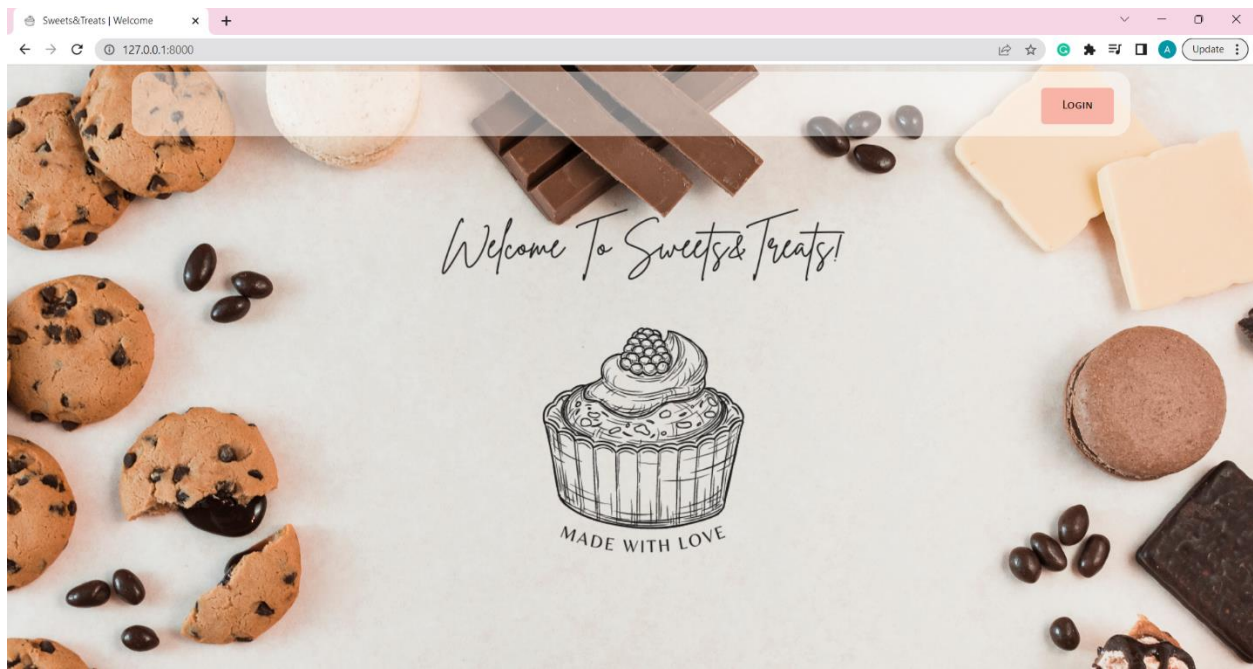

According to the users set criteria the app should then take the recipe from the database as a QuerySet, convert the QuerySet, convert the QuerySet to the pandas DataFrame, and display the results on the table.
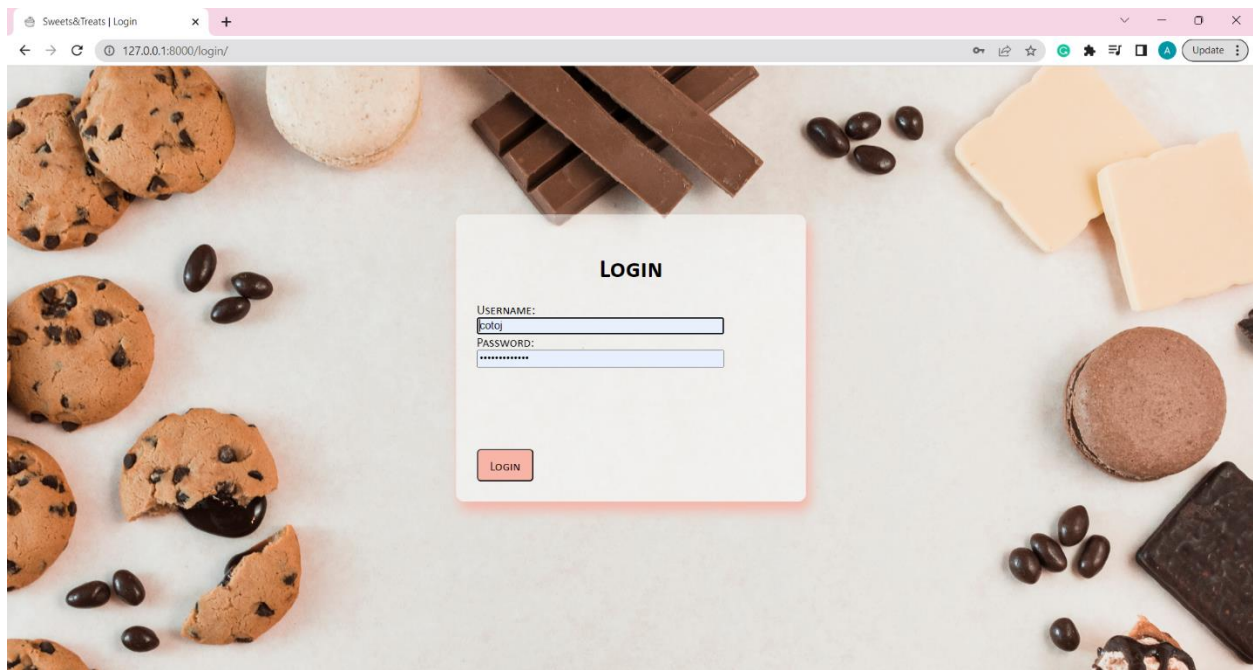
This bar chart displays the recipes with a difficulty level of Easy. The app also provides data visualization using the matplotlib library. The chosen chart displays the name of the recipes against their respective cooking times. The following pie chart and line chart display recipes from the database with the difficulty level set to intermediate and compares their cooking times.
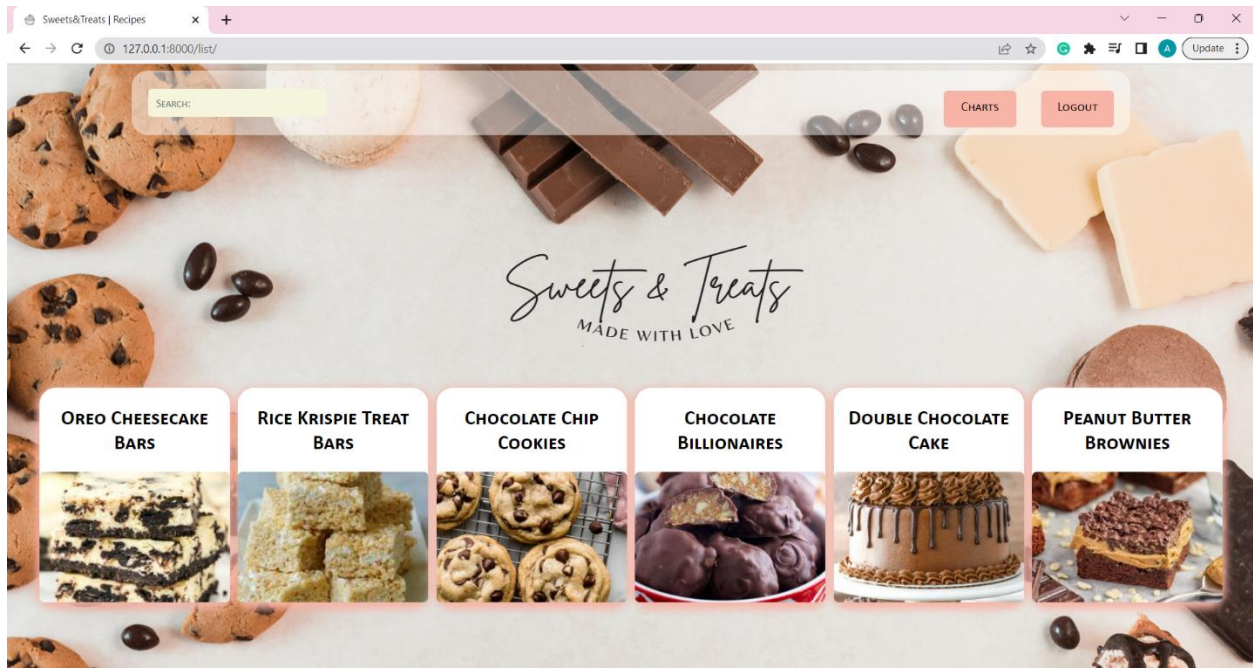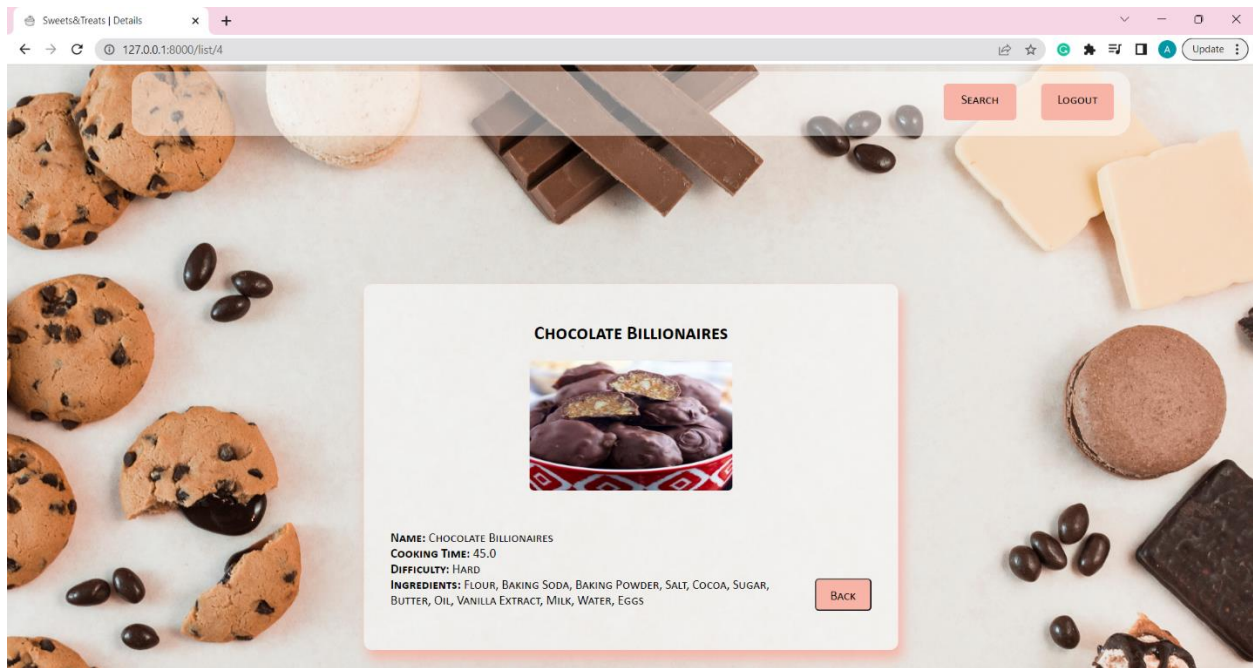
<u>Execution Flow</u>

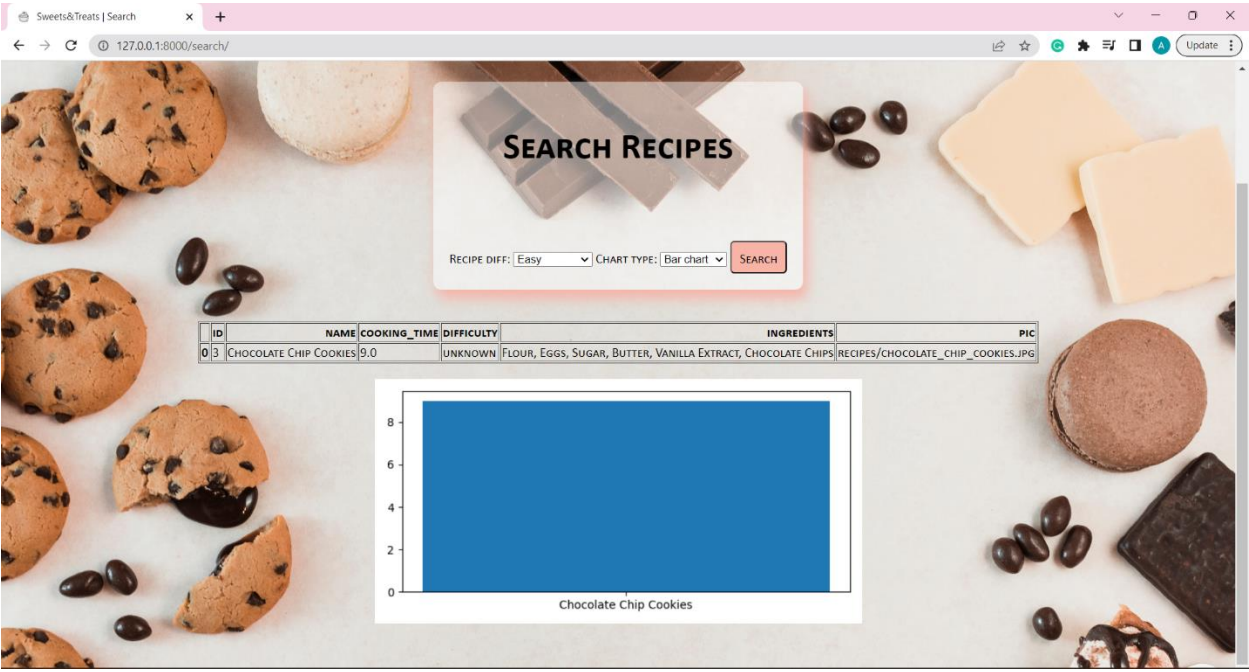1. Users will land on the welcome page and navigate to the login page.
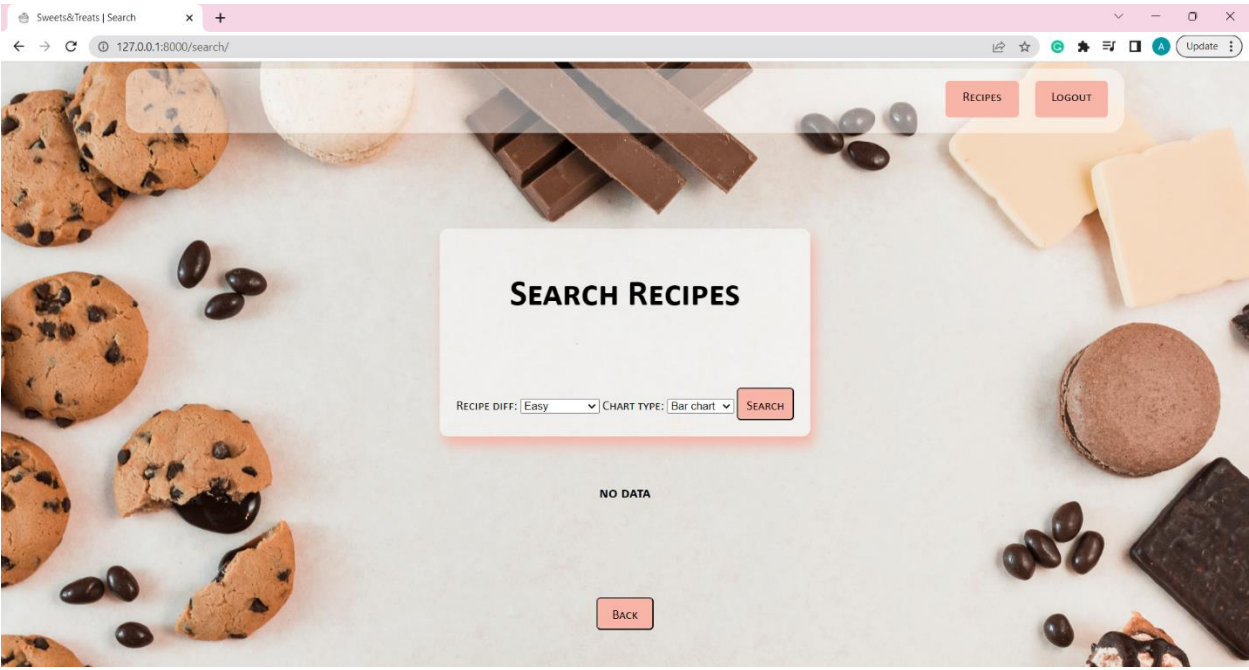

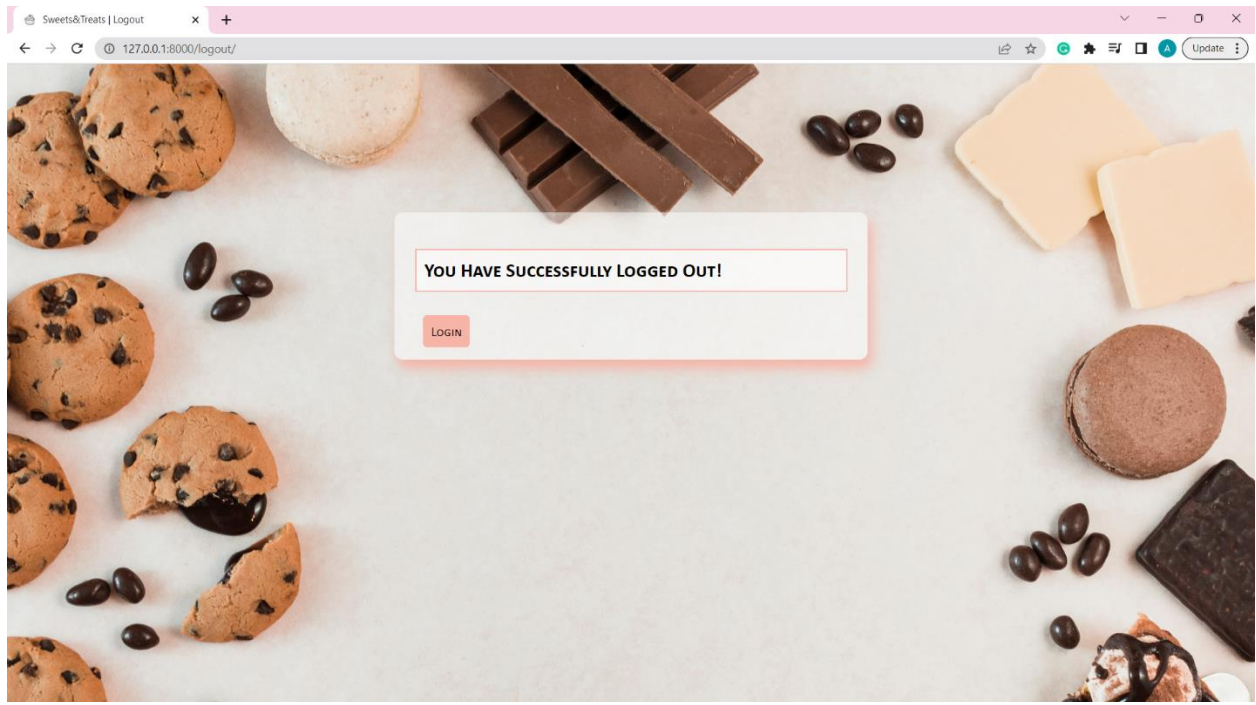2. Users will then enter their credentials on the login page.

3. Upon logging in users will be brought to the recipes list, with options to view recipe details, search for recipes or navigate to the data charts or logout.

4. Once a recipe is searched or clicked on a user can view the recipe details.

5. Users are able to search recipe data comparing difficulty and cooking times.

6. Users are then able to log out.