

Task 2.7

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Designing Graphs and Tables

I don't want the user to have freedom for configuring the charts. I've set up 3 insightful charts to choose from in a dropdown for the sake of not reloading the page often and simplicity.

In the Recipes Table, I've decided to display ALL the recipes in a dataframe table.

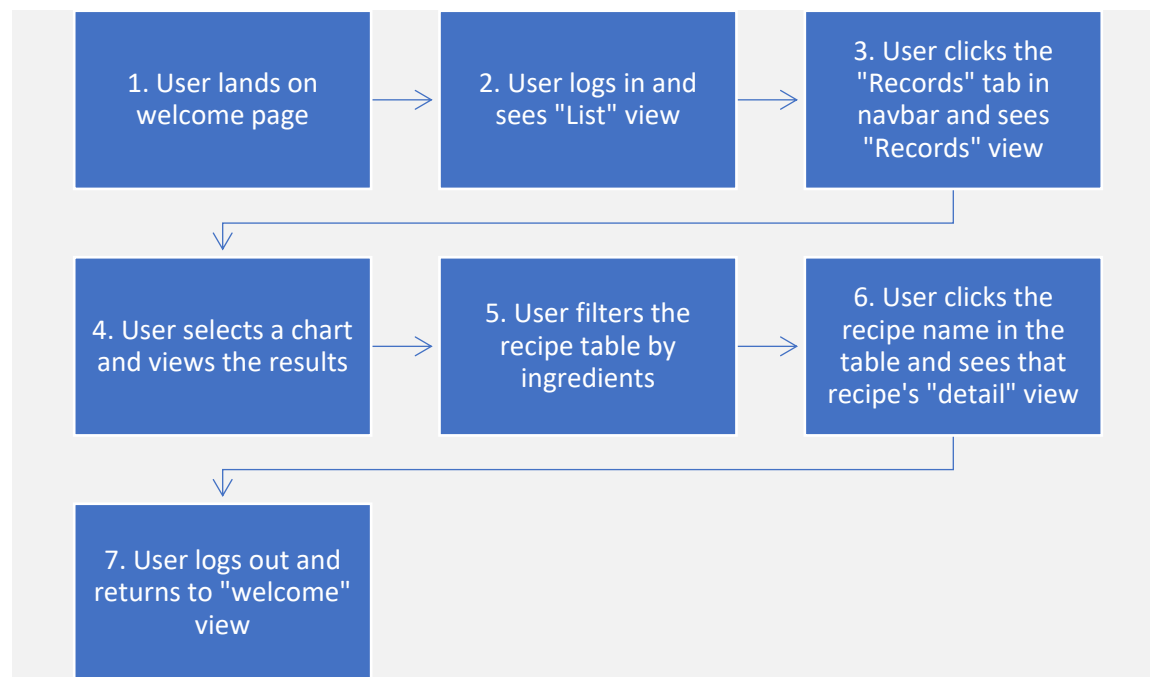
Then, I've provided inputs to filter the table results by name, and/or by ingredients with JavaScript.

The reasoning for this is that when a user clicks "Generate" a POST request reloads the page and would clear the recipe filtering input field. I don't want the POST request causing the page to constantly reload, query the data, and generate a chart image. That's sluggish, unresponsive, and not practical. With JS filtering the table, the results change instantly with any field input change.

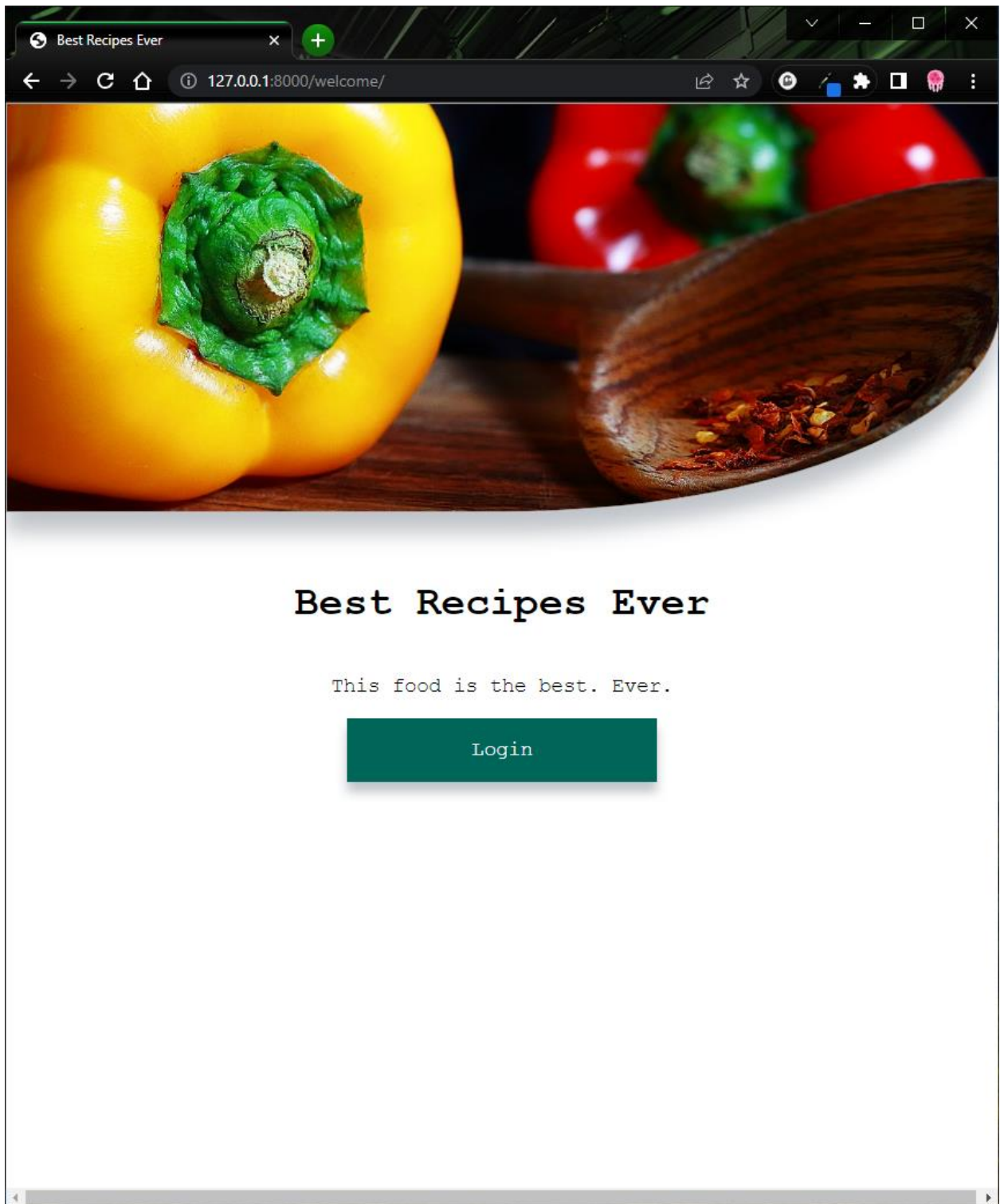
That's why the recipes table should be filtered with JavaScript, not by:

```
qs = Recipe.objects.filter(genre=request.POST.get('genre_input'))
recipe_df = pd.DataFrame(qs.values())
```

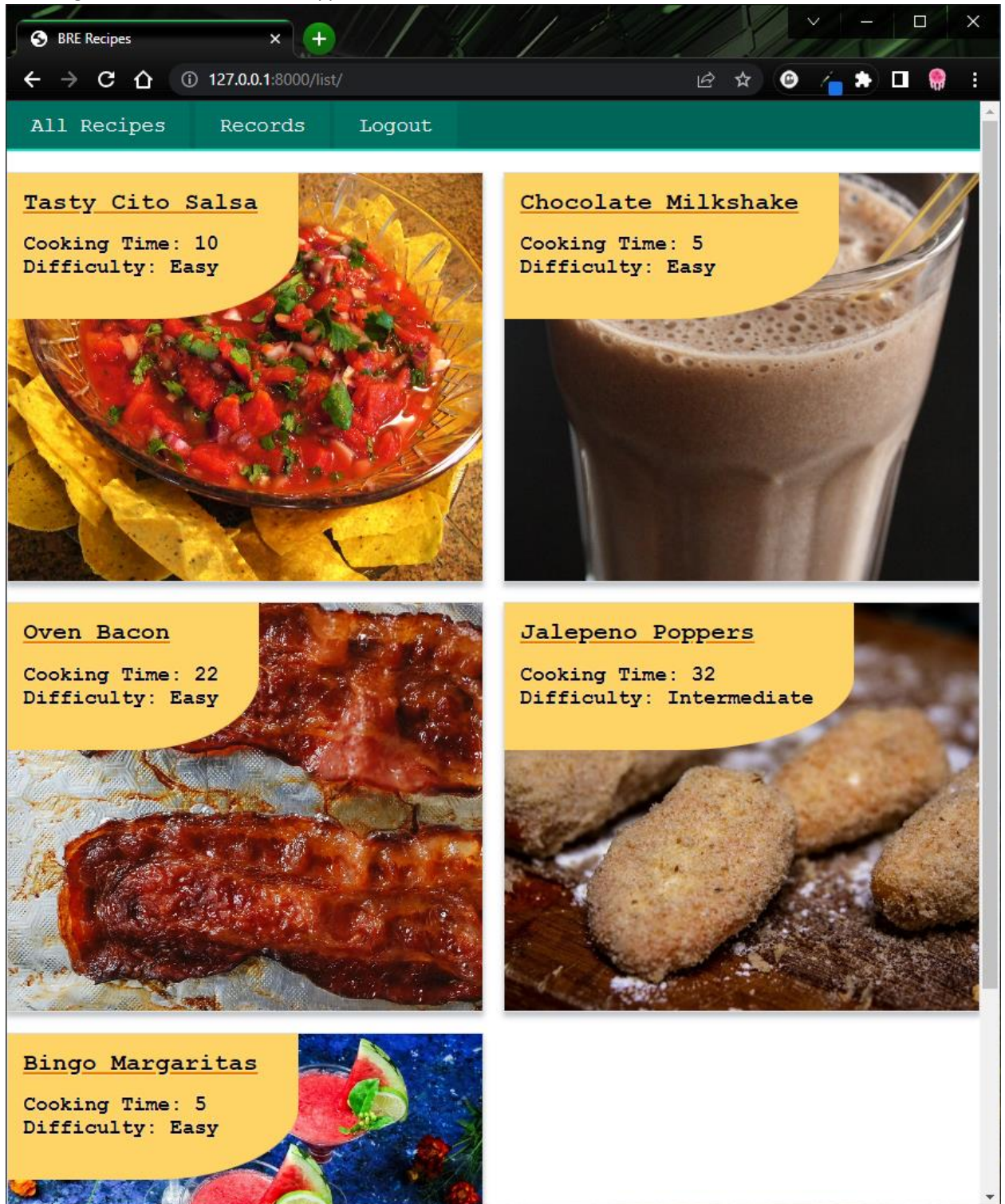
Execution Flow



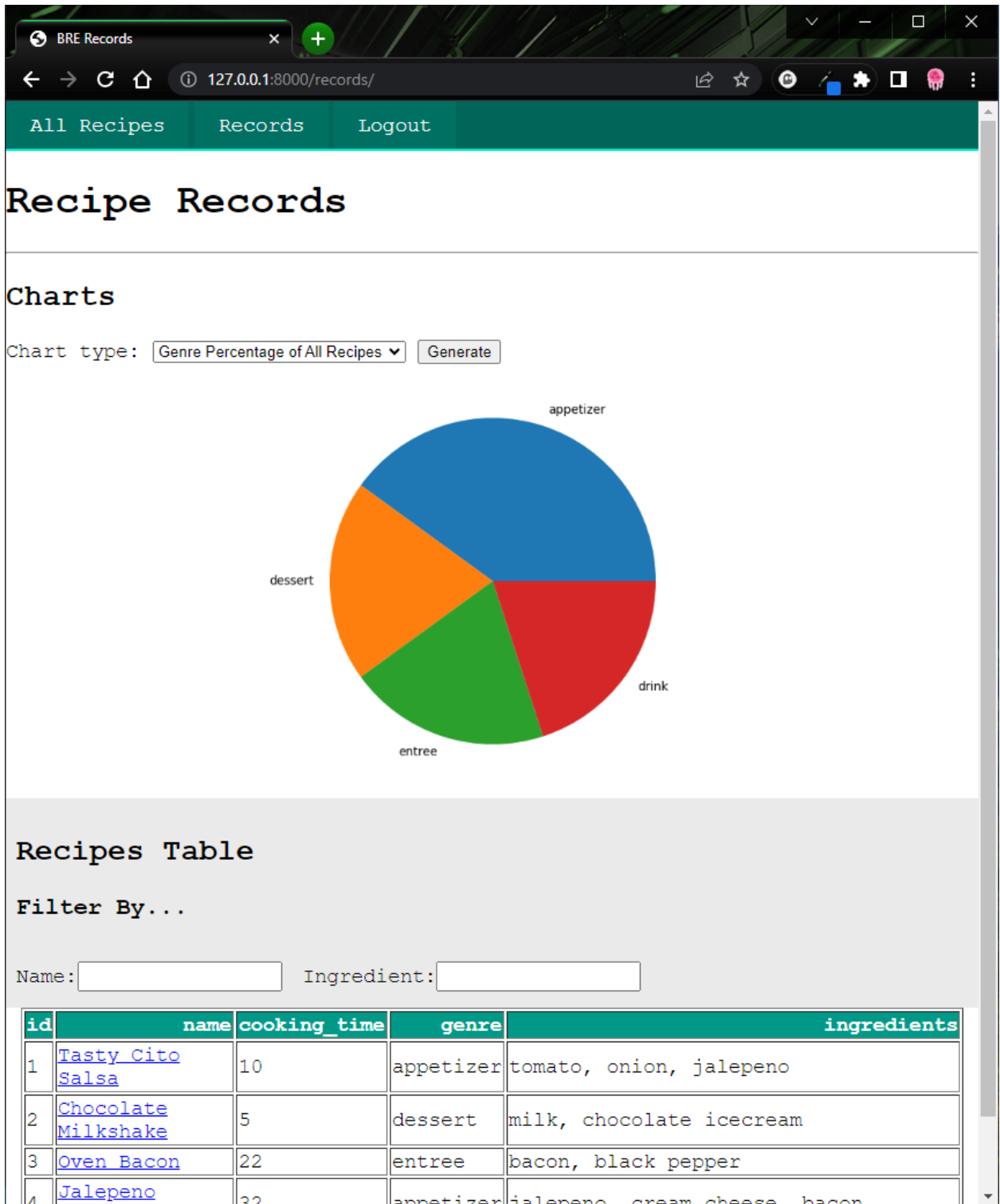
1. User lands on welcome page || localhost:8000/ OR localhost:8000/welcome



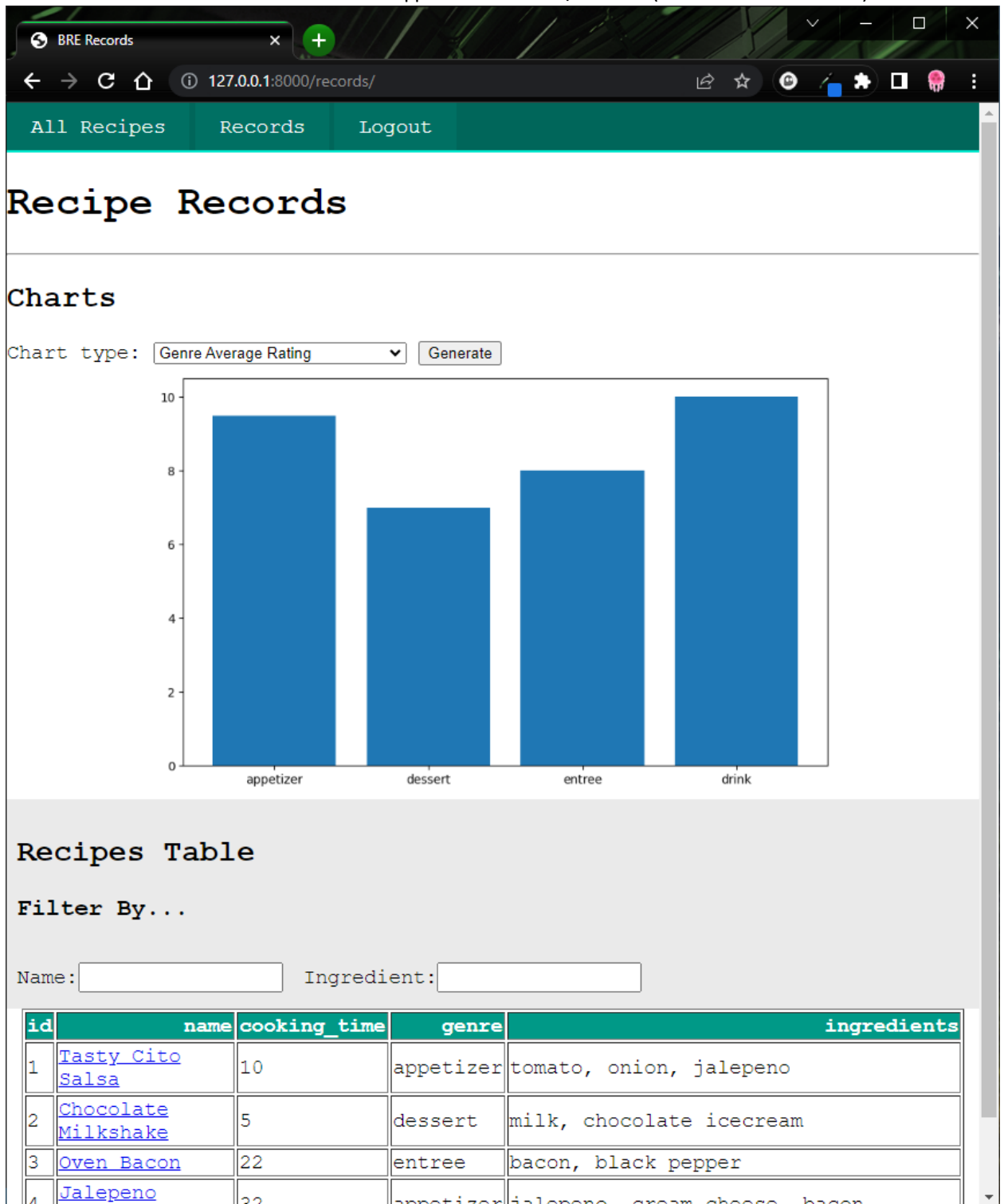
2. User logs in and sees "List" view || localhost:8000/list



3. User clicks the "Records" tab in navbar and sees "Records" view || localhost:8000/records



4. User selects a chart and views the results || localhost:8000/records (then click "Generate")



5. User filters the recipe table by ingredients || localhost:8000/records (then filter input)

BRE Records

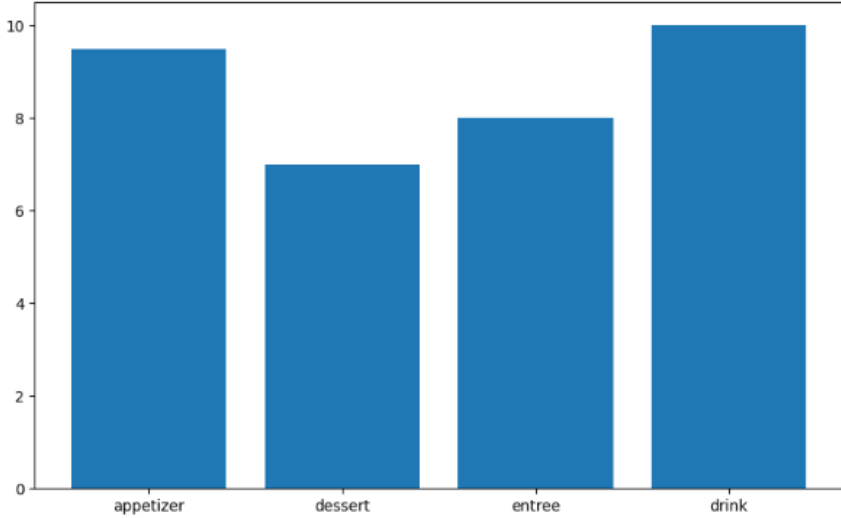
127.0.0.1:8000/records/

All RecipesRecordsLogout

Recipe Records

Charts

Chart type: Genre Average Rating Generate



Genre	Average Rating
appetizer	9.5
dessert	7.0
entree	8.0
drink	10.0

Recipes Table

Filter By...

Name: Ingredient:


id	name	cooking_time	genre	ingredients
3	Oven Bacon	22	entree	bacon, black pepper
4	Jalepeno Poppers	32	appetizer	jalepeno, cream cheese, bacon

6. User clicks the recipe name in the table and sees that recipe's "detail" view || localhost:8000/detail/4

BRE Jalepeno Poppers

127.0.0.1:8000/detail/4

All RecipesRecordsLogout



Jalepeno Poppers

Genre: appetizer

Cooking Time: 32

Ingredients: jalepeno, cream cheese, bacon

BRE Difficulty: Intermediate

BRE Rating: 10.0

7. User logs out and returns to "welcome" view || localhost:8000/welcome

