## **Search Implementation:**

What do I want users to search for?

- Recipes by title
- Recipes by ingredient

What is the search criterion?

- Match full or partial title
- Match full or partial ingredient name (even if it's one of many in the recipe)

# Format of output:

- Display results as an HTML table
- Each recipe name is a clickable link to its detail page
- If no results, show a message: "No matching recipes found."

## **Data Analysis:**

### Bar Chart

- What it shows: Cooking time for each recipe
- X-axis: Recipe name
- Y-axis: Cooking time
- Label: Time in minutes

## Pie Chart

• What it shows: Proportion of total cooking time per recipe

• Labels: Recipe names

Values: Cooking time

#### Line Chart

• What it shows: Cooking time trend (this can just plot recipe IDs vs. cooking time to mimic time series)

• X-axis: Recipe ID or index

Y-axis: Cooking time

Label: Cooking time

## **Execution Flow:**

1. User navigates to the homepage (`/`)

2. User logs in through the login page ('/login/')

3. User is redirected to the recipe list page ('/recipes/list/')

4. User enters a title like "grilled" and selects "bar" chart  $\rightarrow$  clicks search

5. Search results appear in a table, and a chart is shown

6. User clicks on a recipe name and sees the detail view

7. User clicks "Show All Recipes" to reset the list

8. User logs out