Task 2.7

<u>Search Feature</u>

Users should be able to search for recipes by:

- Name/part of name

- Ingredient (single)

- Cooking time (min and max)

Users can use as many of the parameters as they want, but none are required.

Matching recipes will have their string representation displayed, which links to the recipe detail page.

<u>Data Analysis</u>

Charts will be updated based on what the user has searched for (i.e. the currently displayed recipes)

- Bar chart: popularity of ingredients (10 most common)

    - X-axis: ingredients

    - Y-axis: number of recipes the ingredient appears in

- Pie chart: breakdown of recipes by difficulty

    - One "slice" for each difficulty

- Line chart: cooking time by recipe (max number of recipes: 10)

    - X-axis: recipe name

    - Y-axis: cooking time

<u>Execution Flow</u>

```
┌─────────────┐  User clicks      ┌─────────────┐  User logs in   ┌──────────────────┐
│             │  login button     │             │                 │  Recipe list page │
│  Home page  │ ────────────────▶ │ Login page  │ ──────────────▶ │ (all recipes,     │
│             │                   │             │                 │  search form      │
└─────────────┘                   └─────────────┘                 │  hidden)          │
                                        ▲                          └──────────────────┘
                                        │                                   │
          User clicks "log              │                          User clicks "search
          back in"                      │                          for recipes" button
                                        │                                   │
                                        │                                   ▼
┌─────────────┐          ┌──────────────────┐  User defines a  ┌──────────────────┐
│             │          │ Recipe list page │  search          │ Recipe list page │
│ Logout      │          │ (filtered        │ ◀──────────────  │ (all recipes,    │
│ success     │          │  recipes,        │                  │  search form     │
│ page        │          │  specified chart │                  │  displayed)      │
└─────────────┘          │  shown)          │                  └──────────────────┘
      ▲                  └──────────────────┘
      │                           │
  User clicks             User clicks on a
  logout button           recipe
      │                           │
      │                           ▼
      │                  ┌──────────────────┐
      └───────────────── │ Recipe details   │
                         │ page             │
                         └──────────────────┘
```