Recipe Search using Edamam API

A Python project by

Katherine Wilde and Juliet Ibidapo

Introduction

Edamam is a Nutrition Analysis, Food Database, Recipe Search API provider.

The aim of this project is to introduce the implementation of the Edamam API to search for food recipes based on a specified ingredient.

Functions of the program

- get_authorisation()

- get_input()

- confirm_input()

- get_recipes()

- Error checking

- print_output()

- print_chosen_recipe()

Project Overview

The program begins by fetching authorisation keys from the local host and saving these to variables to use in the search function.

The program then prompts the user to enter an ingredient and validates the input against acceptable characters. The input is then confirmed to the user by displaying the searched ingredient.

A request is made to the API using the authorisation keys and specified ingredient.

The program outputs the list number, recipe title (label) and the recipe source (website title) of recipes found.

The user is prompted to choose a recipe number from the list and the website link, number of servings and ingredient lines are displayed.
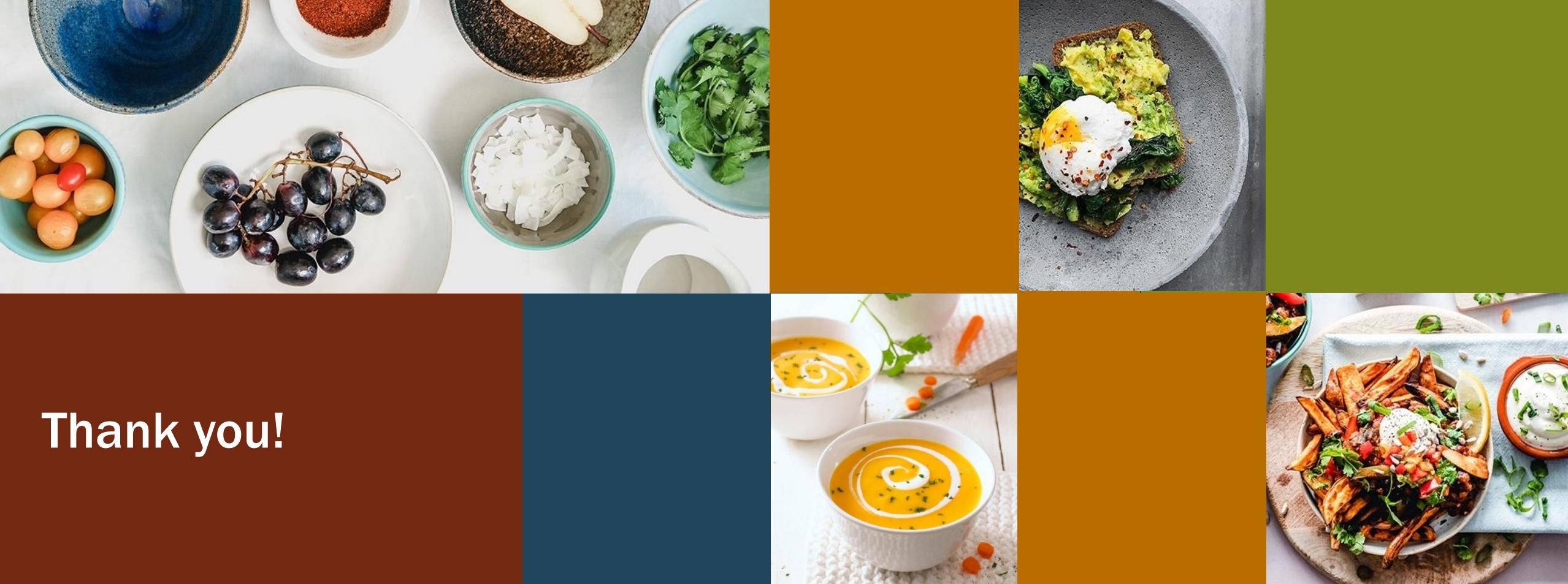
Code Explanation and Demonstration

Teamwork and Collaboration

- Worked collaboratively with regular meetings to discuss ideas and functionality

- Shared a folder on Google Drive which we used for our planning and documentation

- Used a Slack huddle which allowed us to write and review code together

- Worked together to debug and resolve coding issues

Summary of the project

- **What worked well for us**

    - Authorisation keys stored in file format for data protection
    - Error handling
    - Input and validation
    - Search function fetches and displays the relevant information

- **Potential improvements that could be made**

    - Ability to save the search results to a file
    - Order the results by weight or another piece of data
    - Ask the user additional questions to decide which recipe they should choose
    - Cross-reference the ingredient against the Edamam nutrition analysis API
    - Ability to list more than 10 recipe results
    - Ability to display next and previous pages

Thank you!