Recipe Browser Assesment

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#Overview

This project implements an application that parses recipe data from the JSON file, stores it in a SQlite database, and provides an API to access and search the data. This assessment also includes a frontend UI that gathers from the API to display the recipe information with filtering, sorting, and pagination capabilities.

Backend

- Data Parsing: Reads and parses recipe data from the JSON file called USA_recipes.json

- Data storing: Stores the parsed data in a sqlite database

-API: /api/recipes: fetches all recipes with pagination and sorting.

-/api/recipes/search: searches recipes by title, cuisine, rating, and total time.

#frontend

-Recipe table: Displays the recipes with columns for Title, Cuisine, Rating, Total Time, and serves.

-Filters each columns to refine search results.

- Responsive recipe table with filtering capabilities

- Detailed recipe view in a side drawer

- Pagination controls with customizable results per page

- Star rating visualization

- Expandable details for time information

- Nutrition information table

Setup and Installation

Prerequisites

-Python 3.7, I used VSCODE and installed python through there.

-Flask -> Installed in vscode terminal ‘pip install flask’

- Download SQlite extension in vscode

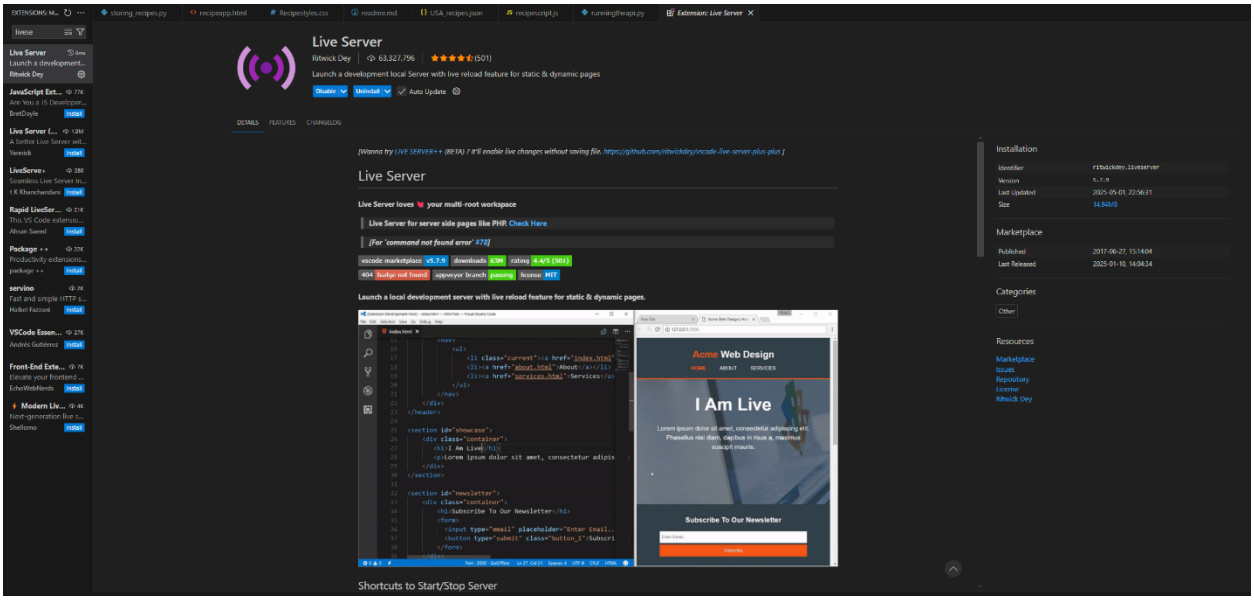
-Download liveserver extension in vscode

Installation

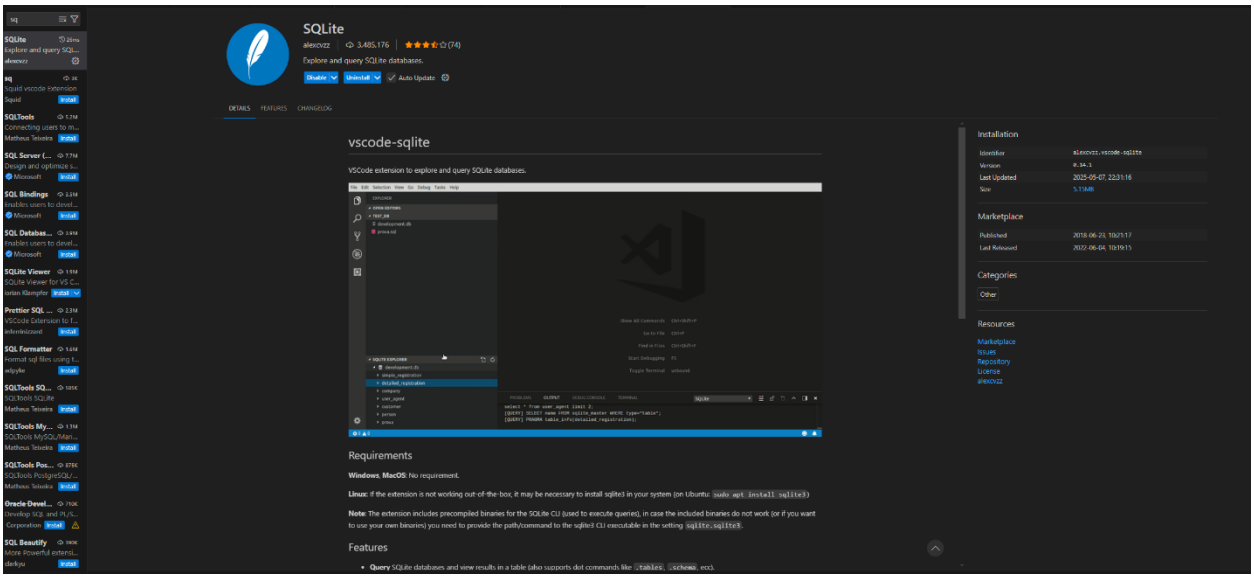
1. Get clone Repository
2. I used vscode to run this project.
3. Install Flask in vscode terminal ‘pip install flask’
4. Get vscode extensions liveserver and sqlite
5. Run ‘python recipes_storingrecipe.py’ to create a database called USA_recipes.db
6. Ctrl-c and then run ‘python runningtheapi.py’ to run the API to the server.
7. Then right click on recipeapp.html and click on ‘Open with live server’

Pictures

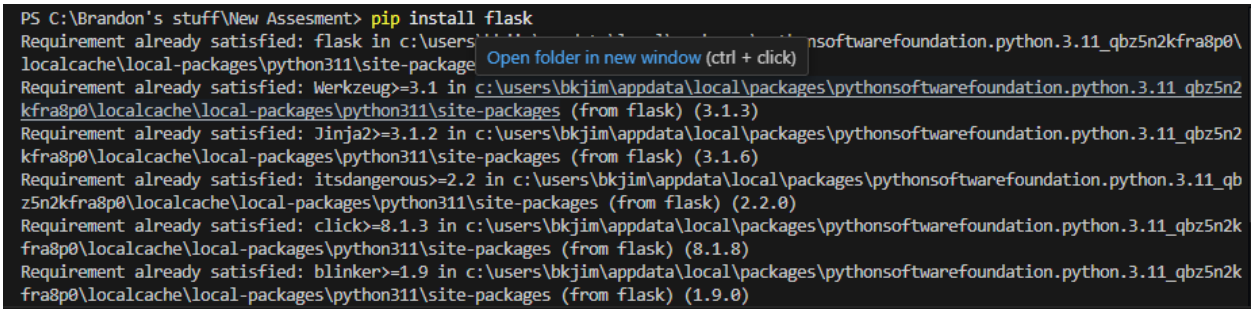
Exension liveserver

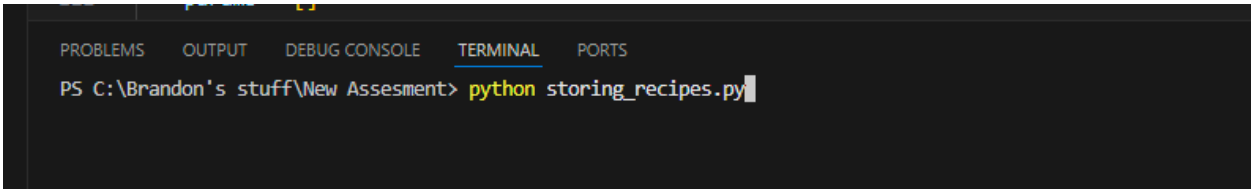


Extension SQLite

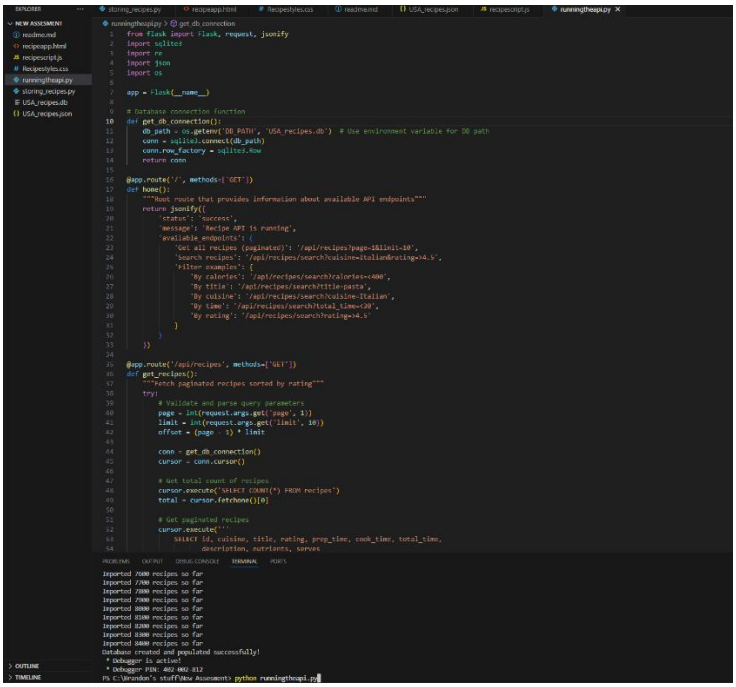


Install for flask

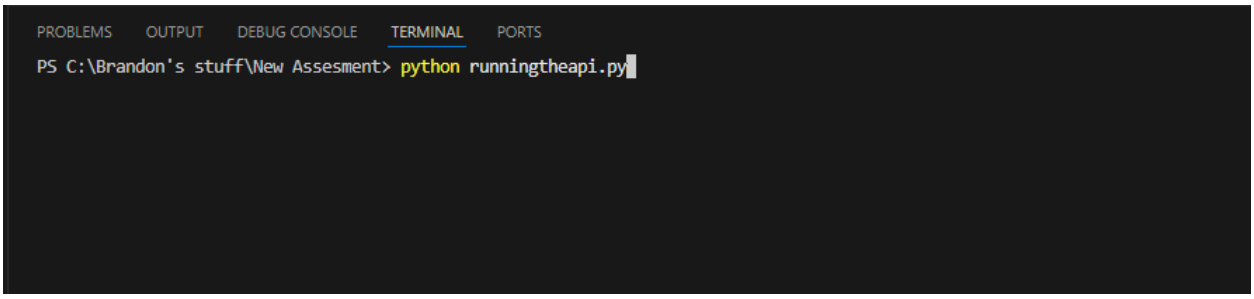




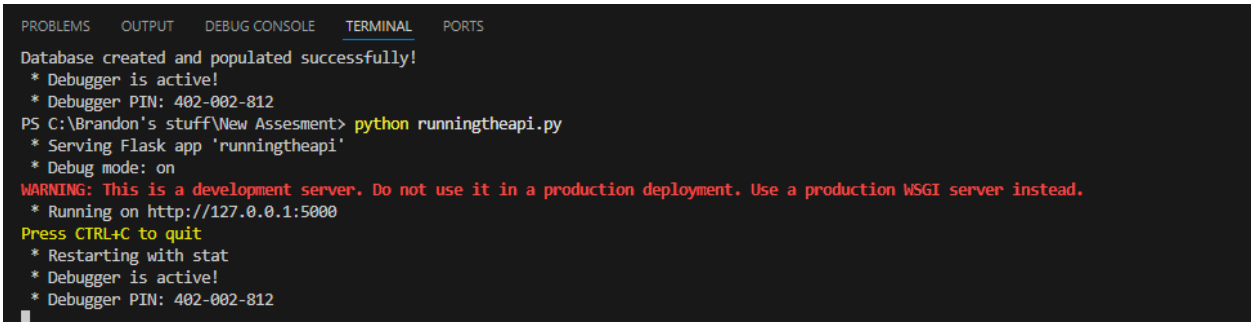
Used to parse through the USA_recipes.json to create USA_recipes.db



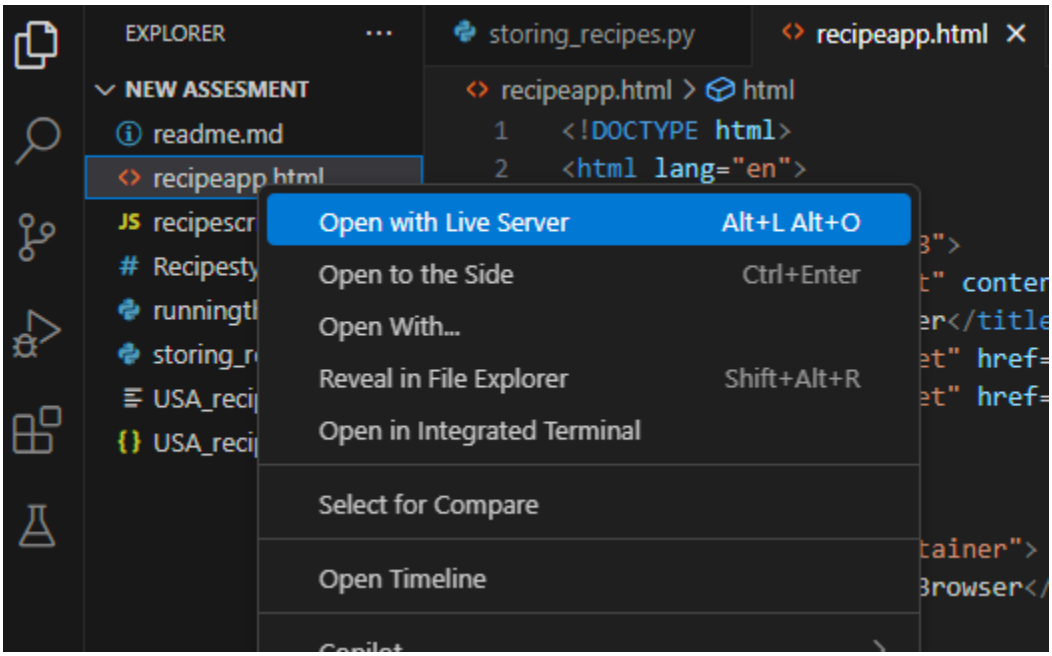
Run the command python runningtheapi.py for the api server to initiate



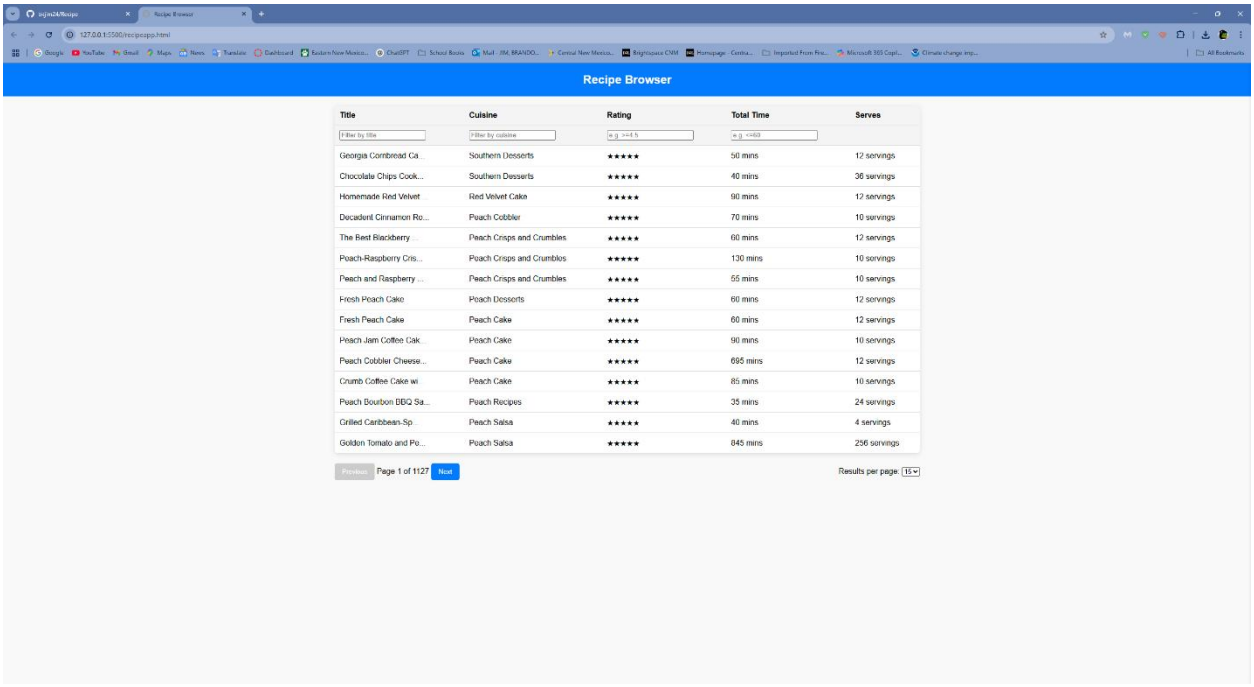
This is the result of the command running perfectly

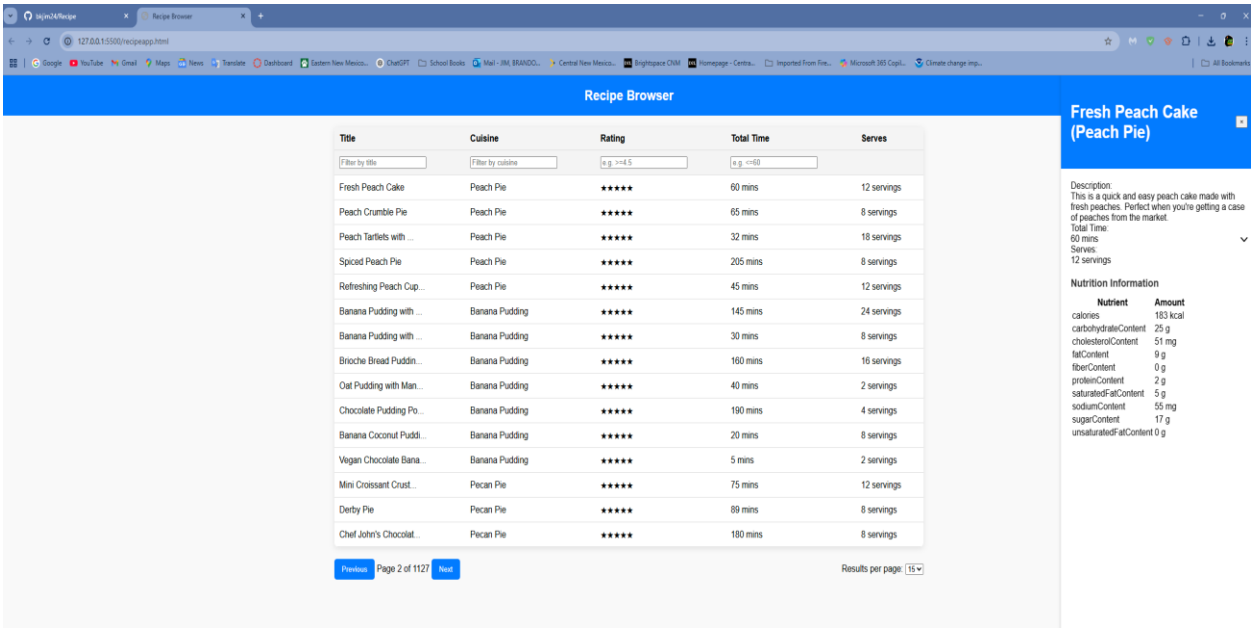


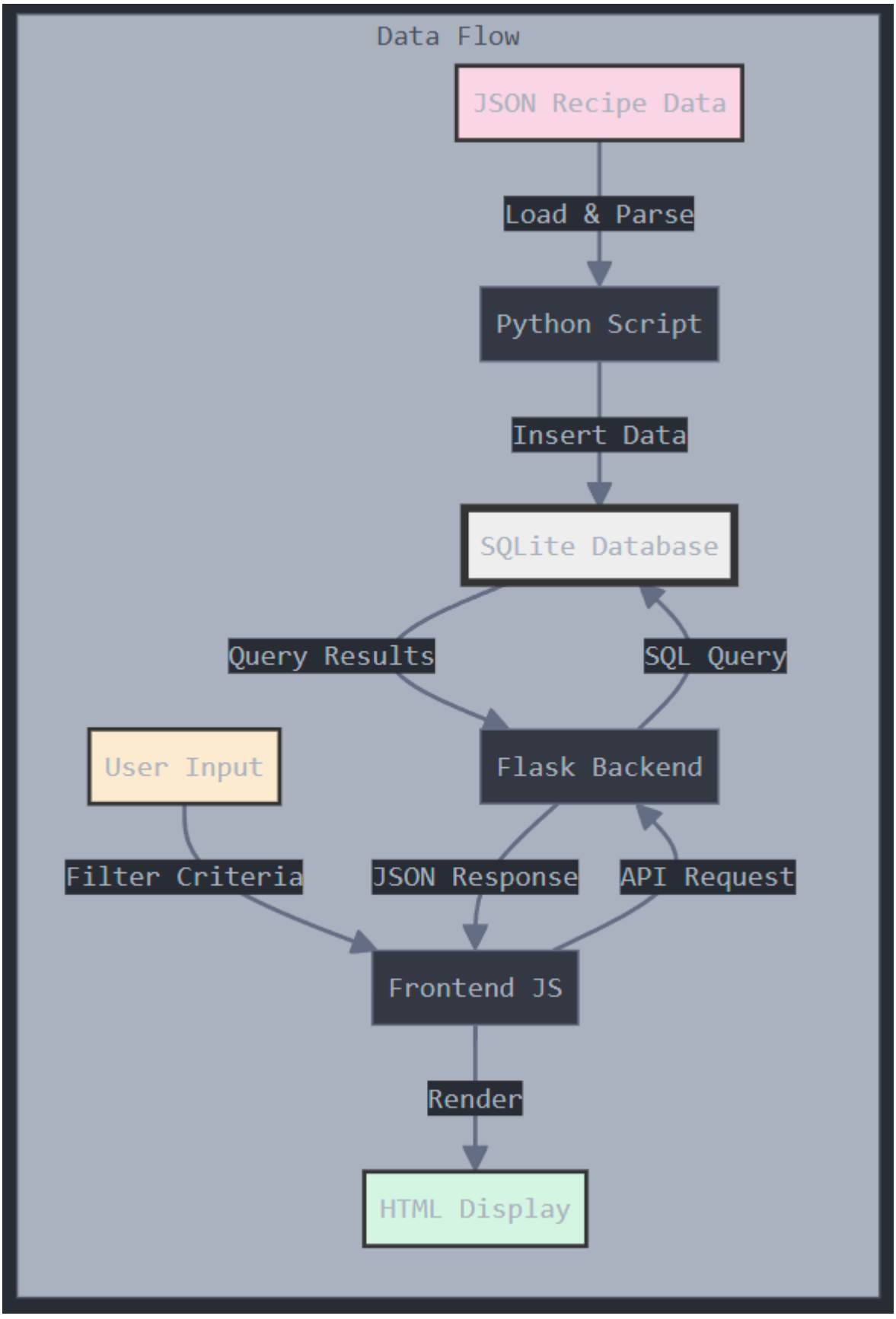
Then right click and open with live sever to initiate the GUI



The recipe url on localhost




Recipe Browser
Title
Cuisine
Rating
Total Time
Serves
Filter by title
Filter by cuisine
e.g. >=4.5
e.g. <=60
Fresh Peach Cake
Peach Pie
★★★★★
60 mins
12 servings
Peach Crumble Pie
Peach Pie
★★★★★
65 mins
8 servings
Peach Tartlets with ...
Peach Pie
★★★★★
32 mins
18 servings
Spiced Peach Pie
Peach Pie
★★★★★
205 mins
8 servings
Refreshing Peach Cup...
Peach Pie
★★★★★
45 mins
12 servings
Banana Pudding with ...
Banana Pudding
★★★★★
145 mins
24 servings
Banana Pudding with ...
Banana Pudding
★★★★★
30 mins
8 servings
Brioche Bread Puddin...
Banana Pudding
★★★★★
160 mins
16 servings
Oat Pudding with Man...
Banana Pudding
★★★★★
40 mins
2 servings
Chocolate Pudding Po...
Banana Pudding
★★★★★
190 mins
4 servings
Banana Coconut Puddi...
Banana Pudding
★★★★★
20 mins
8 servings
Vegan Chocolate Bana...
Banana Pudding
★★★★★
5 mins
2 servings
Mini Croissant Crust...
Pecan Pie
★★★★★
75 mins
12 servings
Derby Pie
Pecan Pie
★★★★★
89 mins
8 servings
Chef John's Chocolat...
Pecan Pie
★★★★★
180 mins
8 servings
Previous
Page 2 of 1127
Next
Results per page: 15
Fresh Peach Cake (Peach Pie)
Description:
This is a quick and easy peach cake made with fresh peaches. Perfect when you're getting a case of peaches from the market.
Total Time:
60 mins
Serves:
12 servings
Nutrition Information
Nutrient
Amount
calories
183 kcal
carbohydrateContent
25 g
cholesterolContent
51 mg
fatContent
9 g
fiberContent
0 g
proteinContent
2 g
saturatedFatContent
5 g
sodiumContent
55 mg
sugarContent
17 g
unsaturatedFatContent
0 g


Data Flow
JSON Recipe Data
Load & Parse
Python Script
Insert Data
SQLite Database
Query Results
SQL Query
User Input
Flask Backend
Filter Criteria
JSON Response
API Request
Frontend JS
Render
HTML Display