

### Overview

My project is a Python-based Recipe Manager program, it's a digital assistant for culinary enthusiasts, it lets users efficiently manage a collection of recipes. Features include the ability to add new recipes, delete existing ones, and search for recipes by different criteria like ingredients or categories. The program categorizes recipes, making it easier for users to find what they need based on their cooking preferences.

### Running the Program:

1. **Prerequisites:** Make sure Python is installed on your system.
2. **Opening Terminal or Command Prompt:** Open your terminal (Linux/Mac) or command prompt (Windows).
3. **Navigating to the Program Directory:** Use the `cd` command to navigate to the directory containing the program files.
4. **Running the Program:**
  - To add a recipe, use: `add --title "Recipe Title" --ingredients "ingredient1" "ingredient2" --instructions "Cooking instructions"`.
  - To search for a recipe, use: `py search --title "Recipe Title"` or `python3 cli.py search --ingredient "ingredient"`.

### Using the Program and Interpreting Output

- **Adding Recipes:** When adding a recipe, provide the program the title, a list of ingredients, and instructions. The program will confirm successful addition.
- **Searching Recipes:** You can search by recipe title or ingredient. The program outputs a list of recipes that match the search criteria. If no matches are found, it will notify you accordingly.

### Annotated Bibliography:

<https://python-textbok.readthedocs.io/en/1.0/#>

- **Python Textbook:** Provided help with foundational knowledge in Python and object-oriented programming principles that were important to be able to structure the application.
- <https://stackoverflow.com/>
- **Stack Overflow:** Used as a resource for troubleshooting specific issues encountered during development, such as file handling errors and JSON manipulation.