

Recipe Manager Application

Overview

The **Recipe Manager Application** is a web-based tool to:

- Add recipes with a name, cuisine type, and list of ingredients.
- View all saved recipes.
- Edit or delete recipes.

This app is built using Flask for the backend and MongoDB Atlas as the database.

Prerequisites

1. Install Python

- Ensure you have **Python 3.8 or higher** installed. Download it from python.org.

2. Install Pip

- Pip is usually included with Python. To verify, run:

```
bash
```

```
pip --version
```

3. Install Required Python Libraries

- Run the following command to install necessary libraries:

```
bash
```

```
pip install flask flask-pymongo
```

4. MongoDB Atlas

- Create a free MongoDB Atlas cluster at mongodb.com.
- Add your IP address to the Atlas access list.
- Get your MongoDB connection string (e.g.,
mongodb+srv://<username>:<password>@<cluster-name>.mongodb.net/<database-name>).

Setup Instructions

Step 1: Save the Code

1. **Create a Folder:**

- On your desktop, create a folder named recipe_manager.
- 2. Save the Python Code:**
 - Open Notepad, paste the provided app.py code, and save it in the recipe_manager folder as app.py.
- 3. Save Templates:**
 - Inside the recipe_manager folder, create another folder named templates.
 - Save the provided HTML files (index.html, base.html, add_recipe.html, and edit_recipe.html) in the templates folder.
- 4. Save Static Files:**
 - Inside the recipe_manager folder, create another folder named static.
 - Save the provided CSS files (e.g., style.css) in the static folder.

Step 2: Configure MongoDB

1. Open the app.py file in Notepad.
2. Update the MongoDB connection string with your credentials:

python

```
app.config["MONGO_URI"] = "mongodb+srv://<username>:<password>@<cluster-name>.mongodb.net/recipe_manager?retryWrites=true&w=majority"
```

Replace:

- <username> with your MongoDB Atlas username.
- <password> with your MongoDB Atlas password.
- <cluster-name> with your MongoDB cluster name.

Step 3: Run the Application

1. Open Command Prompt (cmd).
2. Navigate to the recipe_manager folder:

bash

```
cd path\to\recipe_manager
```

Replace path\to\recipe_manager with the actual folder path.

3. Start the Flask application:

bash

python app.py

4. You should see the following message:

csharp

Copy code

* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

Using the Application

1. Access the Application:

- Open your browser and navigate to <http://127.0.0.1:5000/>.

2. Add a Recipe:

- Click the "**Add New Recipe**" button.
- Fill in the form and click **Submit**.

3. View Recipes:

- All added recipes will be displayed on the main page.

4. Edit a Recipe:

- Click the "**Edit**" button next to a recipe, update the fields, and click **Save Changes**.

5. Delete a Recipe:

- Click the "**Delete**" button next to a recipe to remove it.

Future Enhancements

- Add user authentication for personalized recipe management.
- Include a search bar to find recipes easily.
- Add images for each recipe.

Enjoy managing your recipes!