# User Guide – Flask To-Do Web Application

**Project Name:**
Python Web Development: Flask To-Do App

**Purpose:**
This project demonstrates a simple web-based To-Do list built using Python and Flask. It allows users to:

- Add new tasks
- Mark tasks as completed
- Delete tasks
- Store tasks using an SQLite database for persistence
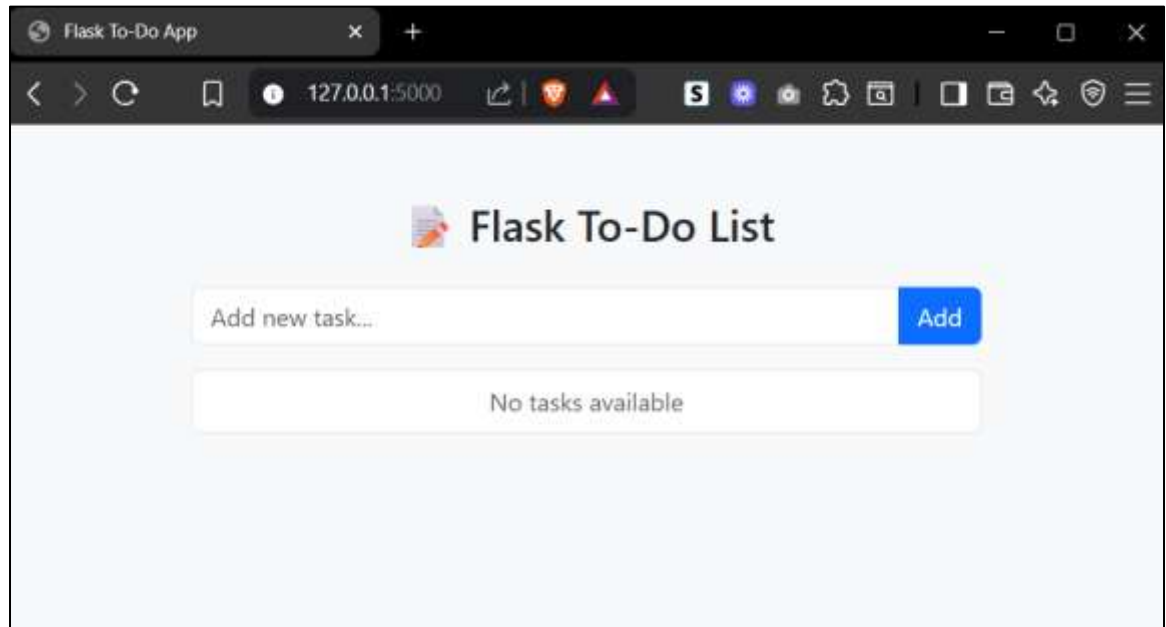- Interact with a clean, Bootstrap-styled web interface

**Prerequisites:**
• Python 3.x installed
• Flask module installed (pip install flask)
• Basic terminal/command prompt usage
• SQLite (included with Python)
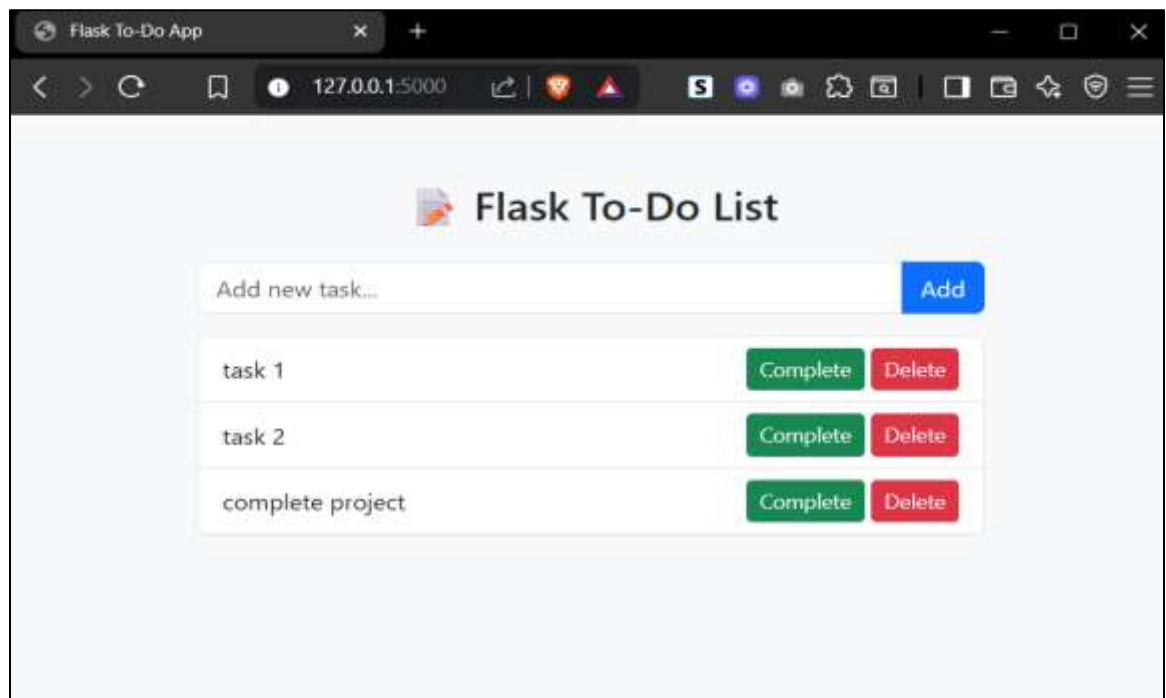
**How to Run the Script:**
1. Open your terminal or command prompt
2. Navigate to the project folder containing app.py
3. Run the app using:
   **python app.py**
4. Once the server starts, open your browser and go to:
   http://127.0.0.1:5000/
5. Use the interface to:
   o Add tasks using the input box
   o Mark them as complete
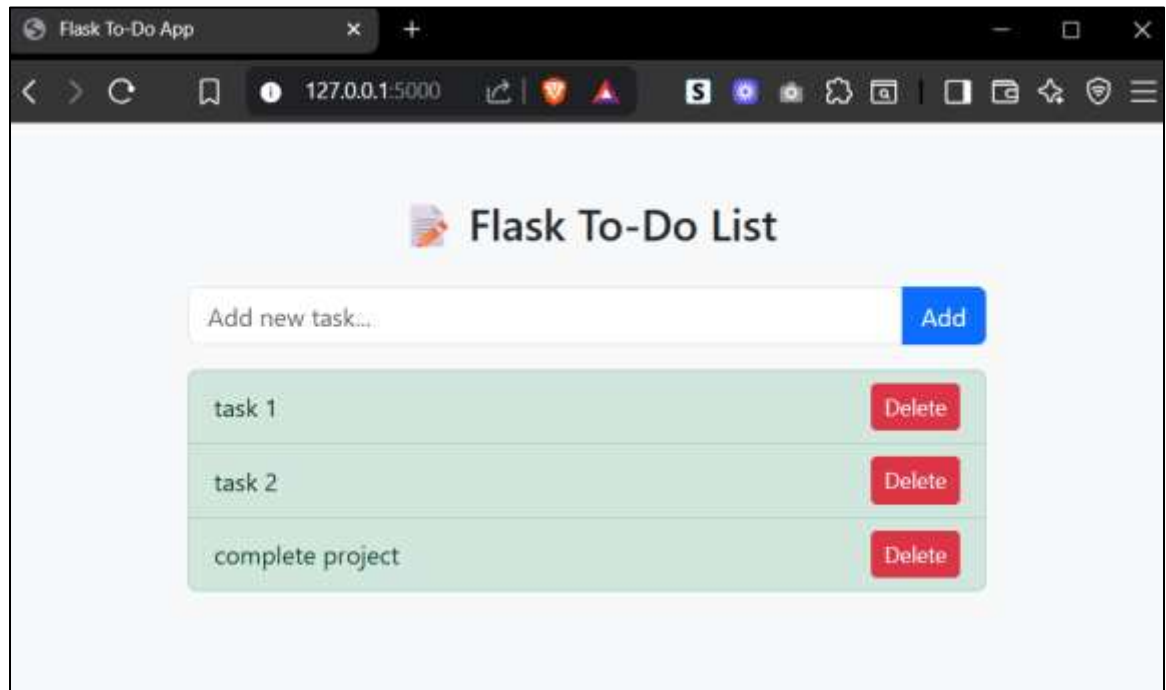   o Delete them using the delete button
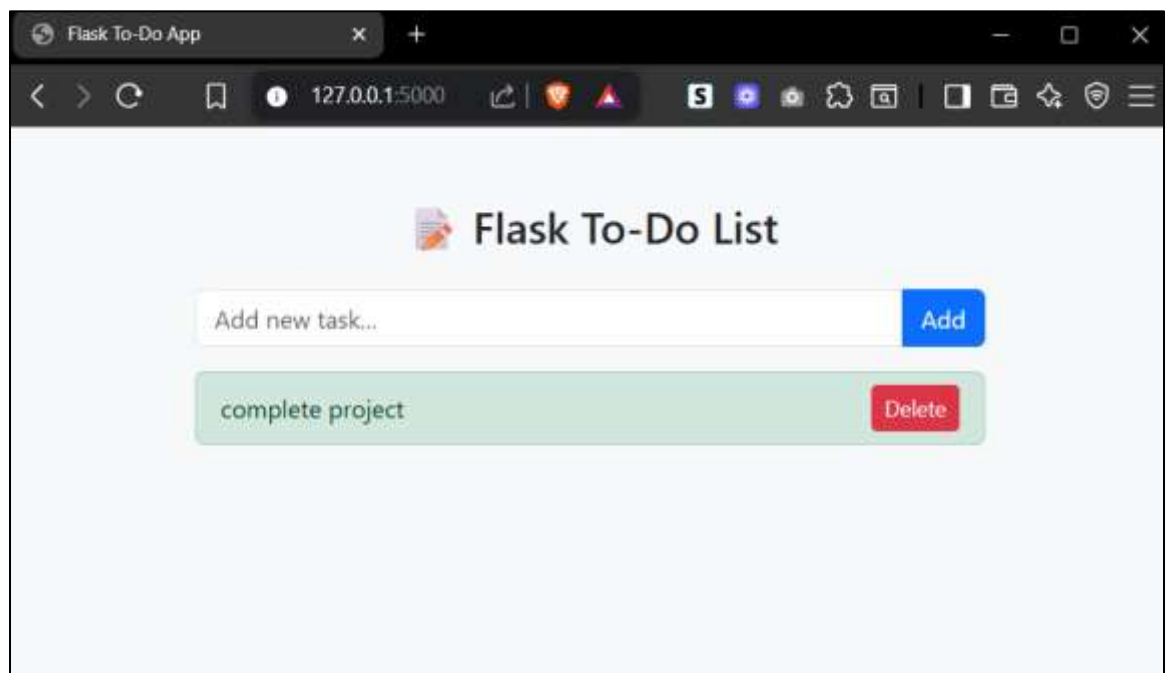
**Screenshots:**

1. Home Page – Empty To-Do List



2. After Adding Tasks

3. Task Marked as Completed



4. Task Deleted

## Output Files and Structure

- app.py – Main Flask app script
- templates/index.html – HTML UI file
- todo.db – SQLite database file (auto-created)
- requirements.txt – List of required packages
- README.md – Project description and run instructions

## Error Handling

- Empty task submission is ignored
- Invalid routes redirect safely
- SQLite is pre-checked and created automatically
- All actions are server-logged in terminal

## Tips

- Make sure to run in a virtual environment for clean dependencies
- Use Ctrl+C to stop the Flask server
- Delete todo.db to reset all tasks