**Installation and Run:**

1

Windows:  *python -m venv venv*

*venv\Scripts\activate*

Linux/Mac: *python3 -m venv venv*

*source venv/bin/activate*

2

In terminal

cd to ..\BOOKMARK \Bookmark Manager Backend

and

pip install -r requirements.txt

3

Open run.py

And run

4

At this point backend is working.

5

📁Go to Bookmark Frontend folder 🡪 register.html

**Structure For frontend**

* login.html – User login page
* register.html – User registration page
* index.html – Bookmark dashboard
* script.js – All frontend logic (API communication, rendering, etc.)
* styles.css – Basic styling for layout and UI

**Instructions**

1. Open register.html in your browser to create a new user account.
2. After registering, use login.html to authenticate.
3. Once logged in, you will be redirected to index.html, where you can:
   * Add bookmarks
   * View and filter bookmarks by tag
   * View most visited bookmarks
   * Assign or remove tags from bookmarks
   * Edit or delete existing entries

**Design Decisions**

* **Backend:** Flask (Python) + SQLAlchemy for ORM
* **Authentication:** JWT-based stateless authentication
* **Frontend:** Vanilla JS + HTML/CSS for minimal setup and fast loading
* **Database:** SQLite by default, but easily extendable (e.g., PostgreSQL)
* **Security:** CORS configured to allow frontend communication only from localhost:5173 (adjustable)