

<p>App Development 1 Project</p> <p>September 2022 term</p>

1. Author

Name : P Saranath

Roll number : 21F3002841

Student Email: : 21f3002841@student.onlinedegree.iitm.ac.in

About me:

Hello, I am Saranath currently pursuing a BS in Data Science and Application at IIT Madras where I have cleared AppDev 1 theory course. I am a programming enthusiast and enjoyed the app development throughout the course where I did my lab assignments and also this project from scratch on my own where I did not have any background knowledge either about flask or about HTML/CSS. This was very engaging for me and interested to learn more about AppDev 2 course.

2. Description about the project

The basic idea of the project statement is to prepare a Social Blog Application that could perform the basic functionalities like *Search, Follow and Unfollow* People and *Like, Comment* etc.

3. Technologies Used

(a) Flask

Flask is used for developing web applications using python, implemented on Werkzeug and Jinja2. Advantages of using Flask framework are: There is a built-in development server and a fast debugger provided.

(b) SQL-Alchemy

SQLAlchemy is the Python SQL toolkit and Object Relational Mapper that gives application developers the full power and flexibility of

SQL. It provides a full suite of well known enterprise-level persistence patterns, designed for efficient and high-performing database access, adapted into a simple and Pythonic domain language.

(c) Python 3.10

(d) SQLite3

4. DB Schema Design

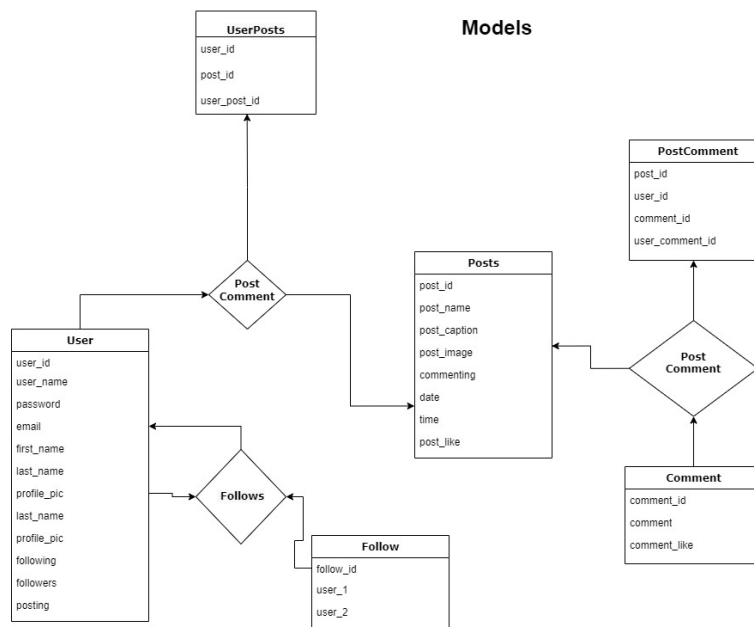


Figure 1: Database Schema

5. API Design

There are CRUD operations for both Posts and Users tables where I create, read, update and delete for both Post and User. I have added sufficient endpoints for it and it is working fine.

6. Architecture and Features

Firstly, I have created some tables which are shown in the Schema and also the relationships among them. Then I stored them in `models.py` which is stored in ***application***. Then I have `config.py` which connects to the database path, and `database.py` which connects to the database itself. Then I have various modules like `follow.py`, `login_controllers.py`, `post_controllers.py`, `profile.py` to ensure the activity of routing.

7. Video

YouTube Link