1. **Author**

Name : D Janani

Roll number : 21f3002138

Student Email: : 21f3002138@student.onlinedegree.iitm.ac.in

About me:
Hi, I am Janani currently doing diploma in BS in Data Science and Applications at IIT Madras. I have cleared my AppDev-1 theory course. I love programming and enjoyed this course as it taught me a lot about web development. I have done this AppDev-1 project from scratch. Before doing this course I had no background in web development and so this course engaged me to learn more about web development.

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

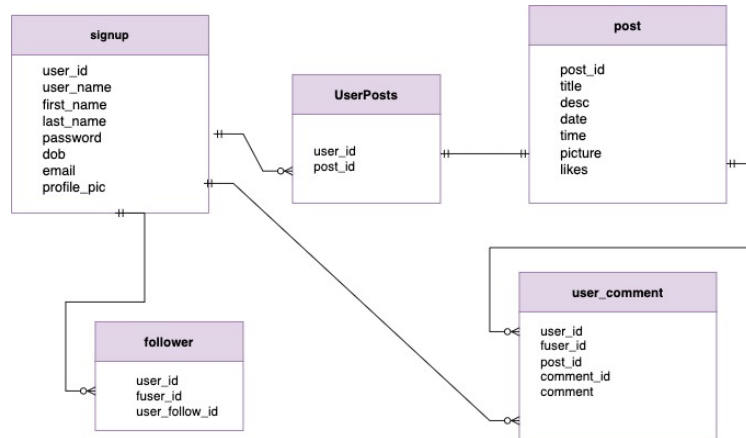(d) SQLite3

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 adn 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
`blog_controllers.py, login_controllers.py, post_controllers.py , profile_controllers.py` to ensure the activity of routing.

7. **Video**

YouTube Link