

## Author

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I am currently in my last term of my diploma level. I am also pursuing a B.Tech Degree in CSE from KIIT University

## Description

This project is supposed to be a lightweight blog/social media platform where users login and post various types of messages to their followers.

## Technologies used

- Flask for application code
- Jinja2 templates + CSS & HTML generation and styling
- SQLite for data storage

## DB Schema Design

1. Users - Used for storing user information
  - User\_id - Primary Key
  - Username
  - First\_name
  - Last\_name
  - Email ID
  - Password
  - DOB
2. Posts - Used for storing information about every post made by every user
  - Post\_id - Primary Key
  - Username - Foreign Key, refers username from the user table
  - Title
  - Description
  - Attachment
  - Datetime
3. Follow - Used for storing information about every account that is following and is being followed in the application
  - Follow\_id - Primary Key
  - Followers
  - Following

## API Design

No API was implemented in this project.

## Architecture and Features

This project has 4 parts :

1. Python file (app.py) - This file contains the backbone of the entire project and contains the software imports, configuration of the application and the data models & controller for every phase of this project.
2. Databases - The SQLite database that is used to store every data for this project.
3. Templates - Contains HTML files for the entire application.
4. Images - Used for storing the images for the application.

The 5 features of this project are :

1. Login and Signup - A proper login and user registration has been implemented in this project. Every username and password along with the user details have been saved in the database and on login, the login controller checks the username and password in the backend and only then entry is given to a user else a suitable message is displayed along with the links to login and registration.
2. Home - If the user does not follow any one, an empty home is displayed with the message that the user should follow someone. Else, the home displays the posts along with their timestamps from every user they follow and links to their accounts.
3. Search - This project enables its users to search other users using the application so that a network can be formed. Search can be made based on username, first name & last name of a user. If the user's not found, a suitable message is displayed. If found, every user in the application is displayed that fits the search criteria. The search results page gives us the links to view the users profile along with options to follow or unfollow them.
4. Profile - If the user wants to view his/her profile, they can do so from this feature. It displays the posts made by the user along with their no. of posts, followers & the no. of people they are following.
5. Blog Management - This feature allows the user to insert, update & delete blogs along with titles and descriptions. Insertion can be done through a floating button in the users feed or their profile page. Updation and Deletion can be done through the user's profile page where they have to select the blog to be updated or deleted.

## Video

[https://drive.google.com/file/d/1th3R0Pu0MpcZNtNAN9S5VlxpDuYbpBW1/view?usp=share\\_link](https://drive.google.com/file/d/1th3R0Pu0MpcZNtNAN9S5VlxpDuYbpBW1/view?usp=share_link)