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About: My name is Ishant Jindal and I live in New Delhi, India. Along with this degree I am currently pursuing B. Tech in Information Technology from Delhi as well.

Description

In this project we need to create a blogging application for users. The app should be able to let user signup, login, create or delete new blogs with an additional functionality of allowing safe tags and embedding images.

Technologies used

Flask – Backend framework.

Flask Restful – For implementing REST APIs.

Flask SQL Alchemy – for the implementation of Databases.

Requests – To send requests to API.

Datetime – To store date and time.

OS – To store and delete files.

PIL – To manipulate images.

DB Schema Design

The database consists of the following tables.

Articles: A table to store the details about posts.

Post_id: Unique primary key of for storing articles/posts. Primary, Not Null.

Username: Username of creator. Not null

Title: Title of the article. Not null

Content: Content of the article. Not null

Image: Location of stored image with name. Nullable

Timestamp: Timestamp of creation.

Followers: stores the information of who is following whom.

Username: the user who clicks follow button.

Following: the user who is getting followed.

Post_stats: stores external details about the post.

Post_id: post id of the of article.

User_id: user id of the user who is liking or commenting.

Like: Boolean. True if user liked the post else False.

Comment: Stores the comment of the user.

User: Stored the information about user including profile picture.

API Design

For user:

Create user, update user, delete user, search user.

For post:

Create post, update post, delete post, search post.

Architecture and Features

The code is organized the following part. First all the database is code is written. Then all the APIs is defined and its respective fields. After that all the methods are defined aka controller. All the HTML templates under static folder named accordingly. The imaged are organized under static folder. In post images, images embedded in posts are stored with post id and in profile images folder, profile pictures are stored of the respective user renamed with username.

The feature of the app includes:

- 1) User signup
- 2) Login
- 3) Create post
- 4) Change user info including profile picture
- 5) Like a post
- 6) Comment on a post
- 7) Follow, unfollow a user
- 8) User feed based on timestamp

Video

<https://drive.google.com/file/d/1MB2rGgjA153fW3R4ldpkrd44rn2eT6Ac/view?usp=sharing>