Author

Sankalp Shrivastava
21f1006134
21f1006134@ds.study.iitm.ac.in

Description

Bloglite is an Application which allows users to share their daily activities with the other users of the world and interact with them. They can also see others posts and like them as well as others also like and react to their posts also. You can also simply follow others to be in touch with them.

Technologies used

- Python: for basic backend Implementation like API.
- Flask_sqlalchemy: for implementing Database.
- Flask_Restful for implementing APIs/
- VueJS: for Frontend, Fetching data from API.
- Flask Security: for giving Security of user data, others could not Access any other people data.
- Some inbuilt libraries like jinja2, render_template, and others.
- Celery: For Scheduled and backend Jobs.
- Redis: For Caching

DB Schema Design

There are 5 Tables in the DB

1. Role user table: The table name is 'roles_users', and it has three columns:
    a. **'id':** an auto-incrementing integer primary key for the table.
    b. **'user_id':** an integer column that references the 'id' column of the 'user' table using a foreign key constraint.
    c. **'role_id':** an integer column that references the 'id' column of the 'role' table using a foreign key constraint.
2. Role table: A class called Role that inherits from db.Model and RoleMixin.
    a. The id attribute represents the primary key of the table and is an integer type.
    b. The name attribute is a string type and is marked as unique, which means that no two roles can have the same name.
    c. The description attribute is a string type and can hold a description of the role.

3. User table: The User class inherits from two other classes: db.Model and UserMixin.
    a. The id attribute represents the primary key of the table and is an integer type.
    b. The name attribute is a string type and is marked as unique, which means that no two roles can have the same name.
    c. Email contains the email of the user.
    d. Username is the username of the user.
    e. User_Images contain the Images of the User.
    f. Passwords contain the passwords.

    g. Fs_uniquifier columns contain the unique token value for token_authentication.
    h. Active demonstrates the active state of the user.
4. Posts: It contains the posts of the user
    a. Post_id contains the master key for the posts table.
    b. User_id is the foreign key for the User Table.
    c. Post_title is simply the title of the post.
    d. Post_image contains the post images.
    e. Post_description contains the description of the post.

5. Follows
   This table contains the relationship between followers and and followings.

Architecture and Features

1. **sign-in / sign-up system:** Here users can fill in all details for creating a new account and after that user will be able to do a sig-in and then one token is generated for security.
2. **Profile:** This page has all the posts of the user and followers and following of the user and exports all the posts of the user.
3. **Functionality of Post:** Here, the user can create, delete, and update a post image and description .
4. **Feed:** Here the user can see all the posts of the user whom he is following and can even render to their profile.
5. **Follower and Following: One can follow and unfollow other users.**
6. **Search : One Can search the users with the Name of them.**

Video

Video