Project Report : BLOG-LITE V2

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I am Prashant Kumar Mishra, from Bihar. I'm a 5th year engineering student in information technology.
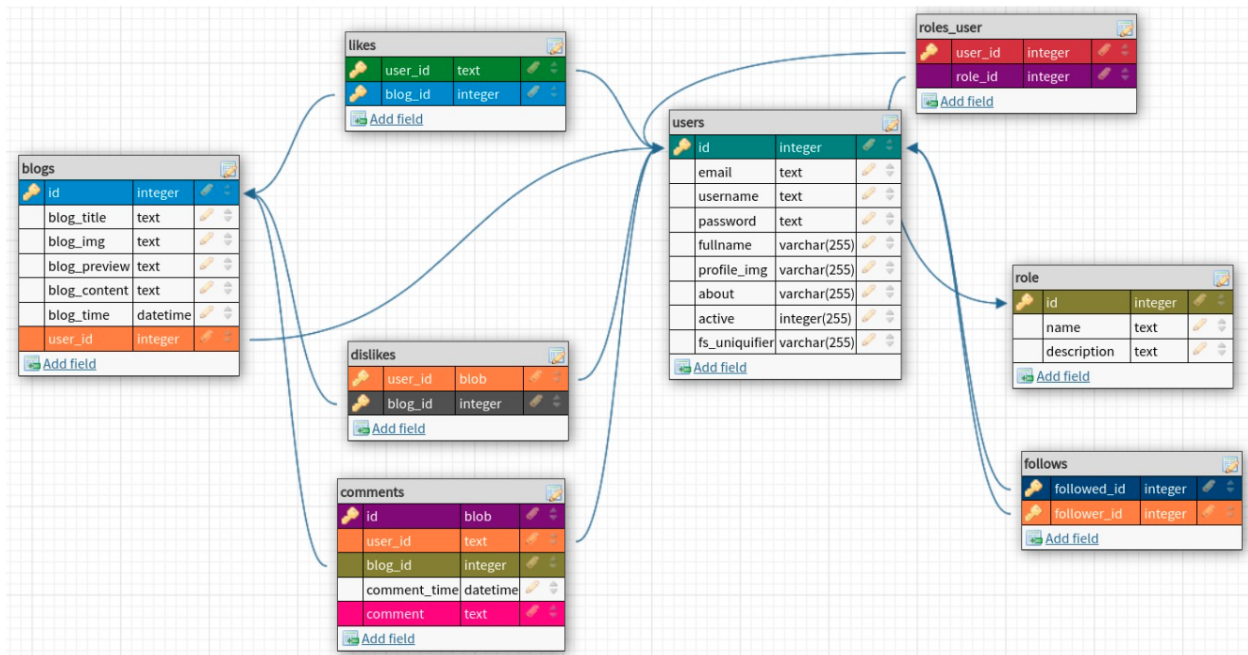
Description

I need to create a multi-user Blog-Liitev2 app, where each user can login into their profile, post some blogs, can follow-unfollow other users, see the blogs of people he follows as his feed. Also he can also edit , delete his blogs, export data etc.

Technologies used

- **os** : For giving the path of the database and folders.
- **flask : Flask** : For creating the application
- **flask_sqlalchemy** : For creating models in the database for the app.
- **flask_security_too** : For ensuring authentication of the application
- **flask_restful** : For creating APIs for different tasks
- **flask_caching** : for caching purpose to ensure performance
- **VueJS CLI**: For frontend and UI
- **Clery** : for task and jobs management
- **Redis** : for caching
- **Matplotlib** : for graph making
- **Smtplib** : for sending emails
- **Bootstrap** : For message flashing.
- **Datetime** : To use date & time
- **Sqlite3** : For database.

DB Schema Design

As we should have multiple users, there is a users table to store users info with unique id (pk) username and a unique email . Also for each user there is a role table. To store followed-following info we have the following table which has many to many relationships with the users table.There is a blogs table to store info about each blog having one to many relationship with users table. Now, to store posts engagement we have three new tables: comments, likes and dislikes. Comments table stores all the comments of each blog. Likes and dislikes table stores like and dislike respectively, done by a user on a particular blog .

Architecture and Features

First we see a start page with the name BLOG-LITE, click on the name to go to the signup_login page. Then first sign-up using correct inputs then login securely to the dashboard. Now with navbar you can navigate to your profile page and add and edit some more info profile pic about yourself. There we can see our posts(acc. to recent time) , total_posts, followers and following. On clicking followers and following we can see a list of our followers and followed respectively , there we can follow-unfollow them. Then again we can search users using the search button in navbar and can follow or unfollow them. Now at our home page we can see the posts of users we follow (acc. to recent time). There along with recents posts we also see the post blog button where we can post our blogs.On each blog we have likes, dislikes and comments count. We can comment by clicking on the comment icon.On comment page we see comments(acc. to recent time) and we can also delete our own comments. There is a read more button on each blog where we can know more details about the blog , there on clicking on the post-engagement button we can see the post engagement graph of the post.There also an edit and delete button for our own blog.We can also export our blogs. On each page search, following, followers, blogs wherever we see user_name we can navigate to that user's profile. On the rightmost of the nav bar we see a username hovering on that we can see logout to logout. Sending daily and monthly reports are done in the backend.

Video Link

project-video-link