Final Report on Blog Lite Application-TweetIT

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This is my 2nd term in the Diploma level.

I am also pursing B.Tech in Computer Science Engineering with specialization in Artificial intelligence and Machine Learning (3rd Year) from Vellore Institute of Technology, Bhopal.

Technologies Used: -

1.Flask

2.Flask-sqlalchemy

3.sqlite for database management

4.html, css for website front end

5.vscode as IDE, replit and local machine

6.jinja2 and bootstrap for basic templates.

7. Basic python libraries like json, matplotlib, numpy etc.

Description:

A Social media application for people to share posts about their thoughts, their daily life, etc. This app also enables the users to follow, unfollow and search other users on the application.

Database Schema:

The application has total of 3 tables:-

1)Credentials Table

Stores all the unique usernames with their respective passwords and the autoincremented user ids

- **user_id** – Primary key of the credentials table
- **username** - unique name taken by each user
- **password** - non unique password taken by each user

2)Followers Table

Stores the mapping of user A to user B depicting that user A follows user B

- **Srno** - primary key of the followers table
- **User_id -** signifies the user that is following
- **Person_id -** signifies the user that is being followed

3)Posts Table

Tables consisting of the posts of all the users wrt the user id

- **User_id -** foreign key of the posts table
- **post_id -** primary key of the posts table
- **post_content** - content of each post
- **post_title** – Title of each post
- **time** – Time at which the post had been added

Features of TweetIT:

- **Login page**- Lets the user login in his account
- **Create account** – Lets the user create an account if he doesn't have one
- **Account Integrity Checker**- Checks if the user name and password that you entered is correct . If you are creating an account, then it is checked if the username that you are trying to create an account with is valid or not.
- **Your posts section**- Shows all the posts that the user has created until now
- **Add a new post**- Enables the user to add a new post
- **Update/Delete post**- Enables the user to update or delete a post
- **People you may know**- Gives the user an option to follow the people on the app which he/ she doesn't follow and also gives an option to visit their account
- **Search Section** – Lets you search for other users on the app and follow/ unfollow them and also visit their account.
- **Feed**- Enables the user to view the posts of the people that the user follows. The user can also visit the accounts of people from here.
- **Followers section**- By clicking on this ,the user can view all the people that are following him and also has an option to remove a particular follower.
- **Following section**- By clicking on this, the user has an option to view the people he/ she is following and also has an option to unfollow them
- **Change username** – The user can change his/her username by authenticating the account by clicking on this
- **Log out**- Logs the user out of the session and redirects him to the login page
- **Delete Account**- The user has an option to delete his/her account with a confirmation message.