BLOG LITE

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Description

In this project we need to build a web application called bloglite which helps users to view blogs of people whom they follow.Also they can also create,edit and delete their own blogs.They can search people to follow and unfollow them when necessary.

Technologies used

1.Flask - backend(used for developing our web application which is a python framework)
2.sqlite3 - backend database
3.Html , css , bootstrap - frontend designing
4.Python - language used in flask

DB Schema Design

I have used 4 tables in the database namely - User table , Posttable table , Comment Table and Follow table.
In the User table the primary key is userid , this table contains the information about the user's username, password , email , Age , profile picture and no_of posts the particular User has posted.This table has one to many relationship with Posttable table , Comment Table and Follow table as each user can add multiple posts , comments and can have followers
Next we have the Posttable table having post_id as primary key which contains the information about the posts,here we have the username as the foreign key from the User table.This table contains info of blog title , blog description , blog image , it's time stamp , no of likes and dislikes of the blog , comments it got.
Next we have the Comments table having 2 foreign keys of Posttable and User tables Post_id and username columns.This table basically stores all the comments put forward to each of the post by different individuals.Also it has timestamp of when a particular user comments.
Finally we have the Follow table which has 2 foreign keys from Posttable and User tables. This is used to store who follows who with timestamps.

API Design

I have created an api for the users using the flask restful api which allows people to know , create , edit and delete users.I have implemented this with the help of the swagger online editor.With username given they can perform all the CRUD operations on the users , and all changes are showcased on the appropriate tables.
The created yaml file is attached

Architecture and Features

My project mainly contains of static folder in which all the css and the profile images of users gets saved in , Templates folder which comprises of all the html files and instance folder contains database of my project.Then there are 2 main python files ,
1.appl.py and 2.resources.py
appl.py consists of all my controllers , models and app files into one file
resources.py consists of my api which i created for the CRUD operations on users.
To run normally in the terminal we can just type in python appl.py
If we want to add users through api operations run python resources.py
There is a simple login page implemented and the home page of my application is the users feed where the user can see blogs of people which are followed by the user
There is a profile page tracking down your no of posts , followers and following
From here a user can add , edit and delete his blogs.
There is a search bar where the user can search other people in order to follow them.

Additional features include: 1.The ability to like and dislike a particular post
2.The ability to post comments on a particular post
3.Have added Form validation with bootstrap classes

Video

https://drive.google.com/file/d/1Yqpegb-i3km5yaQiJwCbOBNgvSYtVHj2/view?usp=share_link