Project Documentation

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Description

We needed to make a blog lite app which is a web application where user can create their blogs with images. The users can follow other users to see their blogs and the app also tracks the followers the user has and people who the user follows.

Technologies used and its Purpose

- Flask was used to develop api
- VueJs
- Vue Cli
- Flask Sql-Alchemy to work with our sqlite database
- Sqlite
- Jinja
- Redis and Celery for batch jobs and cron jobs
- Flask jwt Extended is token based authentication for login and sign up
- Flask Mail to send mails

DB Schema Design

UserModel Table

- Id (primary key),
- Email
- Lasvi (last visited by user in date and time format)
- Username
- Password
- Name
- Following
- Follower

PostModel Table

- Id
- Userp_id (id of the user making post)

- Namep (name of the user making post)
- Image (name of image in database)
- Title
- Caption
- Date

The UserModel table will have all the users who sign up and will also have the data of follower and following of the user in it.. The PostModel table has all blogs the user made with title, caption and date .

API Design

Main.py file consists of all backend code. It is a flask application connected to sqlite database. It consists of UserModel and PostModel. All routes of the api are secured by flask jwt extended. THe routes can handle CRUD operation for UserModel as well as PostsModel.Finally we have defined functions for celery tasks,pdf report and to export csv file.

Architecture and Features

- main .py is the main backend api file of the project.Tasks.py is the 2nd backend backend file which contains celery configuration.
- In the frontend we have used vue cli with components Add,Follower,Following,Header,Home,Login,Profile,Search,SignUp,Update and UserProfile

Features

- New user sign up and login with password with token based authentication.
- Home page shows the blogs made by all users that our user has followed.
- The user can search for other users,visit their profile and can follow them.
- The user can keep track of followers and users he is following with the option to unfollow them.
- The user can add blogs with images which can be updated or deleted.
- The app will send reminders in the form of mail to users who have not opened the app for more than 24 hours. It will also send monthly engagement pdf on the first day of every month.

Video

https://drive.google.com/file/d/1FV6DqoJzXoUt_Aq0-f1cMjIWApY2sSiN/view?usp=sharing