

Author

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I am a student Maharashtra. And currently I am pursuing BE CE from Pune university.

I am a passionate developer.

Description

The project is a web application for creating and sharing blog posts with other users. It features a follow system and daily email reminders for user progress. Users can import and export posts, and async job scheduling is managed through Celery. Additionally, the app provides monthly activity reports for users to track their engagement. The platform offers a streamlined solution for content creators seeking to optimize their blogging experience.

Technologies used.

Flask : Flask is a small and lightweight Python web framework that provides useful tools and features that make creating web applications in Python.

Jinja 2 : Used for rendering html for mailing purpose.

SQLAlchemy : It is the Python SQL toolkit and Object Relational Mapper that gives application developers the full power and flexibility of SQL.

Matplotlib: Used to plot trendlines for trackers.

Chart.js : Used to plot graphs for front end .

Vue.js : It's progressive javascript framework. For frontend of app.

MailHog : To setup SMTP for testing email services.

Weasyprint: To convert rendered html into pdf format.

Redis : For caching and celery job scheduling.

DB Schema Design

Model has following tables.

Tablename: "users"

id = this is an integer which autoincrements and it's primary key.

username = this is String, unique and not nullable

password = it is String and not nullable

name = it is of type String and not nullable

email = type string and not nullable

profile_image = type string

active= type Boolean

posts = this has one to many relation with Posts table. Cause one user can have multiple posts.

follows = this has one to many relation with Follow table. Cause one user can follow multiple users.

Tablename: "Posts"

id = this is an integer which autoincrements and it's primary key.

user_id = this is an integer which is foreign key from users table.

title = it is String and not nullable

description = it is String

date = it is String

image = it is String

private = it is an integer

user = this has one to one relationship with User table. Cause one post can only have one user

Tablename: "Follow"

id = this is an integer which autoincrements and it's primary key.

f1_user_id= this is an integer which is foreign key from users table.

f2_user_id= this is an integer which is foreign key from users table.

user = this has one to one relationship with User table. Cause one user can only follow one user in an instance.

API Design

Login to get auth token. CRUD for posts. Update and delete for follow table. Get, Put for profile images. Import and export all posts. Get pdf of post. Get for public user details.

Architecture and Features

The project has two folders Backend which has python file named **main.py** running this file will run the backend application. All Other files required for backend reside in same folder/subfolder.

The other file frontend is designed using vue.js using CDN approach running on any server will run frontend app. It used fetch to get required data from backend and render it accordingly.

Features:

1. One can create new profile with unique username, email and password.
2. Then once users is logged in he is redirected to feed page where public posts of all people you follow is shown.
3. In my profile page user can see stats, add posts(public/private), export them as zip package, import posts, upload or change profile pic.
4. Download any post in pdf format.
5. In search page user can search users with usernames. Also can get list of all username available on platform.
6. Daily reminder is sent to user if he is inactive for the day.
8. Monthly report with graphs is sent on first of month.

Video

https://drive.google.com/file/d/1RmRH5RsZ6vLRxoqRcuw_t0AUfULR4vcZ/view?usp=sharing