

Author

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About Me:

I am currently enrolled in the Diploma program in both Programming and Data Science, having successfully completed the foundational level of the course. My passion and interest in Data Science and programming has been evident throughout my studies and I am continuously seeking to enhance my knowledge and skills in these fields. Additionally, I am excited to apply my acquired knowledge to real-world challenges and contribute to the growth of the field.

Description:

I developed a multi-user web app called 'Blogpost' using Flask and Vue.js. It allows users to create and publish blogs with images and follow other bloggers. Celery is integrated to send daily and monthly reminders. Blogpost provides an excellent platform to share ideas and expand online presence.

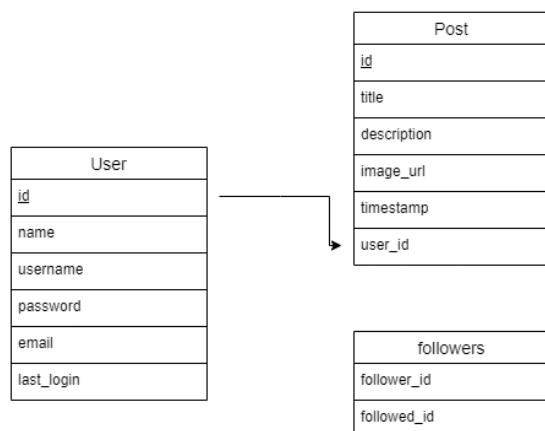
Technologies Used:

In the project I have used the below technologies:

1. **flask** - Utilized flask to create a dynamic and robust web application in my project.
2. **flask_sqlalchemy** - Used Flask_sqlalchemy to effectively interact with databases (ORM)
3. **HTML** - Employed HTML to structure and create well-formed web pages.
4. **CSS** - Incorporated CSS to provide a polished and visually appealing user interface in my project.
5. **VueJs**: A popular JavaScript framework for building interactive user interfaces.
6. **Redis**: A fast, in-memory data store used for caching and message brokering.
7. **Celery**: A distributed task queue used for asynchronous processing and scheduling of tasks.
8. **pyjwt**: A Python library used for encoding and decoding JSON Web Tokens (JWTs) for secure communication between parties.

DB Schema Design:

The below diagram shows the Data Base Structure

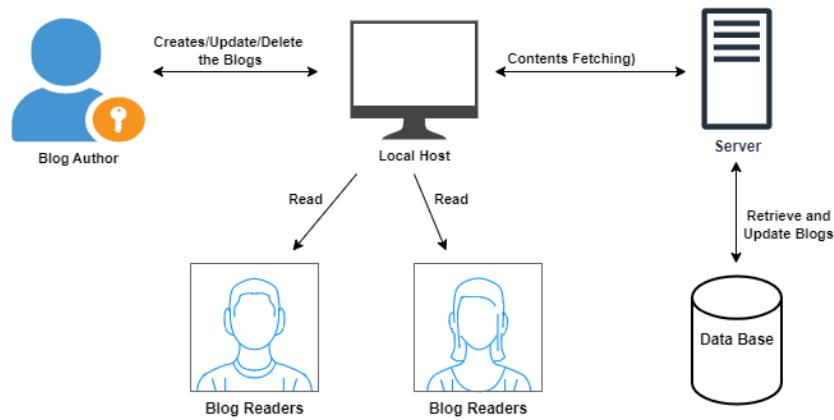


API DESIGN:

The CRUD (Create, Read, Update, and Delete) operations for both user and blogpost entities have been implemented and documented in the OpenAPI specification, utilizing the YAML format. The file containing the API definition is named "backened/APIs.yaml" for easy reference and management.

Architecture and Features:

The below diagram shows the Architecture of the Blog Application



I have designed and developed an innovative, multi-user web application called 'Blogpost', which is built on the Flask backend framework and Vue.js frontend technology. This powerful platform empowers users to effortlessly create, publish, and share their own blog content, complete with the flexibility to incorporate captivating images.

In addition to its rich feature set, Blogpost includes a seamless social component that enables users to easily follow other bloggers and stay up to date with their latest posts. Leveraging the powerful capabilities of Celery, Blogpost also includes automated reminder functionality, which sends daily and monthly reminders to keep users engaged and motivated to stay connected with their audience.

Video

Video Link → https://drive.google.com/file/d/1TRLq4Gh0-rKU90L4qfBaZ9Y-u7FsVKSI/view?usp=share_link