Author

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- I am a full time BS student and a Data Science enthusiast and have started my programming journey with python, with time I have developed interest in coding and would love to see a career out of it.

Description

Basically it is similar to social media applications we use, having login and register, with the ability to post and view others and follow/unfollow, including search other users.

View other user's profile and ours as well, in the end we have logout and delete account permanently option as well.

Technologies used

- 1. Flask Being the framework
- 2. Flask-restful for creating API's
- 3. Flask SQLAlchemy for database in flask
- 4. SQLalchemy- as database
- 5. Werkzeug for handling exceptions
- 6. Json for accessing and then showing data on frontend
- 7. Datetime- for posts having date and time creation
- 8. Base64- for image data

DB Schema Design

User Table

- id = db.Column(db.Integer, primary_key=True)
- name=db.Column(db.String(250), nullable=False)
- username=db.Column(db.String(250),unique=True, nullable=False)
- email = db.Column(db.String(250), nullable=False)
- 5. password=db.Column(db.String(250) , nullable=False)

BlogPost Table

- post_id = db.Column(db.Integer, primary_key=True)
- author_username =
 db.Column(db.String,
 db.ForeignKey(User.username))
- 3. title = db.Column(db.String(250))
- 4. date = db.Column(db.DateTime, default=datetime.datetime.utcnow)
- 5. body = db.Column(db.Text)
- 6. img = db.Column(db.String(250))

Comment Table

- comment_id = db.Column(db.Integer, primary_key=True)
- text = db.Column(db.Text, nullable=False)

Like Table

- like_id = db.Column(db.Integer, primary key=True)
- like_username = db.Column(db.String, db.ForeignKey(User.username))
- post_id = db.Column(db.Integer, db.ForeignKey(BlogPost.post_id))

Follow Table

- id = db.Column(db.Integer, primary_key=True)
- follower_username = db.Column(db.String, db.ForeignKey(User.username))
- followed_username =
 db.Column(db.String,
 db.ForeignKey(User.username))

API Design

- User CRUD on user
- Posts CRUD on posts
- Like/Dislike ability to like and dislike
- Follow/Unfollow ability to follow and unfollow others
- News feed having all posts on user's feed
- Comment- ability to comment on posts
- Own Profile- ability to view own profile
- Other's Profile- ability to view other's profile
- All users ability to view all users of this site
- Search ability to search

Architecture and Features

- 1. Api
 - a. Instance
 - api_database.sqlite3
 - b. App.py
 - c. models.py
- 2. Frontend
 - a. Static
- Css
- b. Templates
- c. main.py

Features

Completed core requirements

- Login/Sign up page
- User's feed posts, follow information etc.
- ✓ User's profile
 - ✓ No. of posts
 - ✓ following
 - √ followers
- **▼** Blog/Post management

Completed Recommended requirements

- ✓ APIs for
 - ✓ User
 - **✓** Blogs
 - ✓ Others
- ✓ Validation on input fields
- ✓ Blogs engagement

Completed optional requirements

- Styling and Aesthetics
- ✓ Proper login system
- Exporting blog engagements

Video

Project presentation video