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Description

Building a multi-user application (Bloglite) each user can add, delete and update his posts. Every user must have a basic profile view showing his stats i.e., number of posts created by the user, number of followers etc.

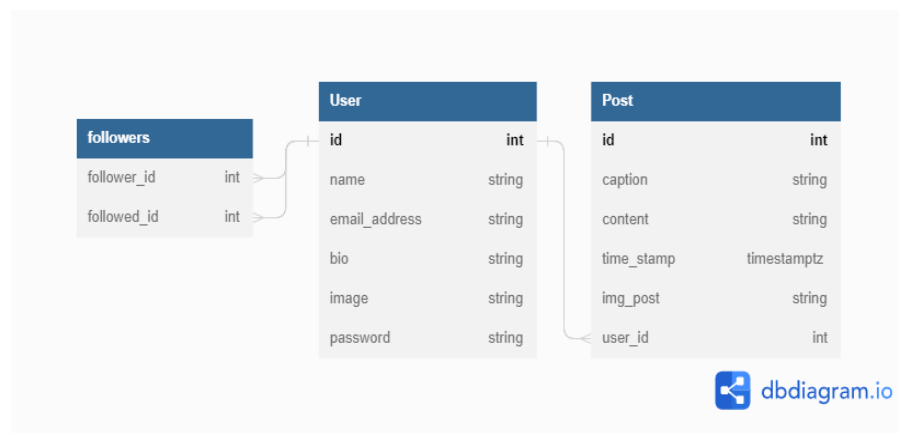# Technologies used

Flask and Its extensions

- Flask has been installed and implemented successfully.
- Flask_Sqlalchemy is used for creating database models and the models are connected to the Flask-application.
- Flask_wtf is used for designing the forms (Login, Registration, Addpost etc) . These forms are connected to the database in such a way that the data entered in the form is stored in their respective tables.
- Flask-Bcrypt is used for hashing/ encrypting the password.
- Flask_login (LoginManager) is used for logging in and logging out the user.

Front-End and Templates

- HTML templates are created for Login, Registration, Post, AddPost, UserProfile, Search, EditProfile, Followers.
- 'base.html' is the parent template, which is basically the navigation bar which is common for other pages.
- Bootstrap 5.3 is used for designing the templates. Bootstrap classes are used to design buttons, modals etc.
- A custom CSS file named 'style.css' is used to add styling to the Login and Registration pages.

DB Schema Design

-   The Database has three tables namely **USER, POST, FOLLOWERS**
-   Columns in **USER** table - [id, name, email_address, bio, image, password]
-   Columns in **POST** table - [id, caption, content, time_stamp, img_post, user_id]
-   Columns in **FOLLOWERS** table - [follower_id, followed_id]

Architecture and Features

-   The folder named 'bloglite' is the main folder, further it has subfolders namely
    main, posts, static, templates, users
-   The Templates folder contains all the html files.
-   The static folder has two subfolders CSS and Images.
    The CSS folder contains a 'style.css' file.
    The Images folder contains all the images uploaded by the users.
-   Users and posts have their controllers in their respective folders in the file named
    'routes.py'.
-   'models.py' file contains the database model of the application.
-   '__init__.py' file is where all initializations are done.
-   The 'instance' folder contains the database, it is present outside the main folder.
-   'app.py' is used to run the application.

Video

Link for the video → Presentation MAD1