

Project Title: Micro Blog Web App

Project Description: A web application allowing users to create, view, like, and comment on micro blogs. Users can manage their accounts and posts, with features for registration, login, and password recovery.

Scope:

- **User Authentication:** Login, registration, and password recovery.
- **Blog Management:** Create, update, delete, like, and comment on blogs.
- **User Profile:** Update user information and profile picture.

Requirements

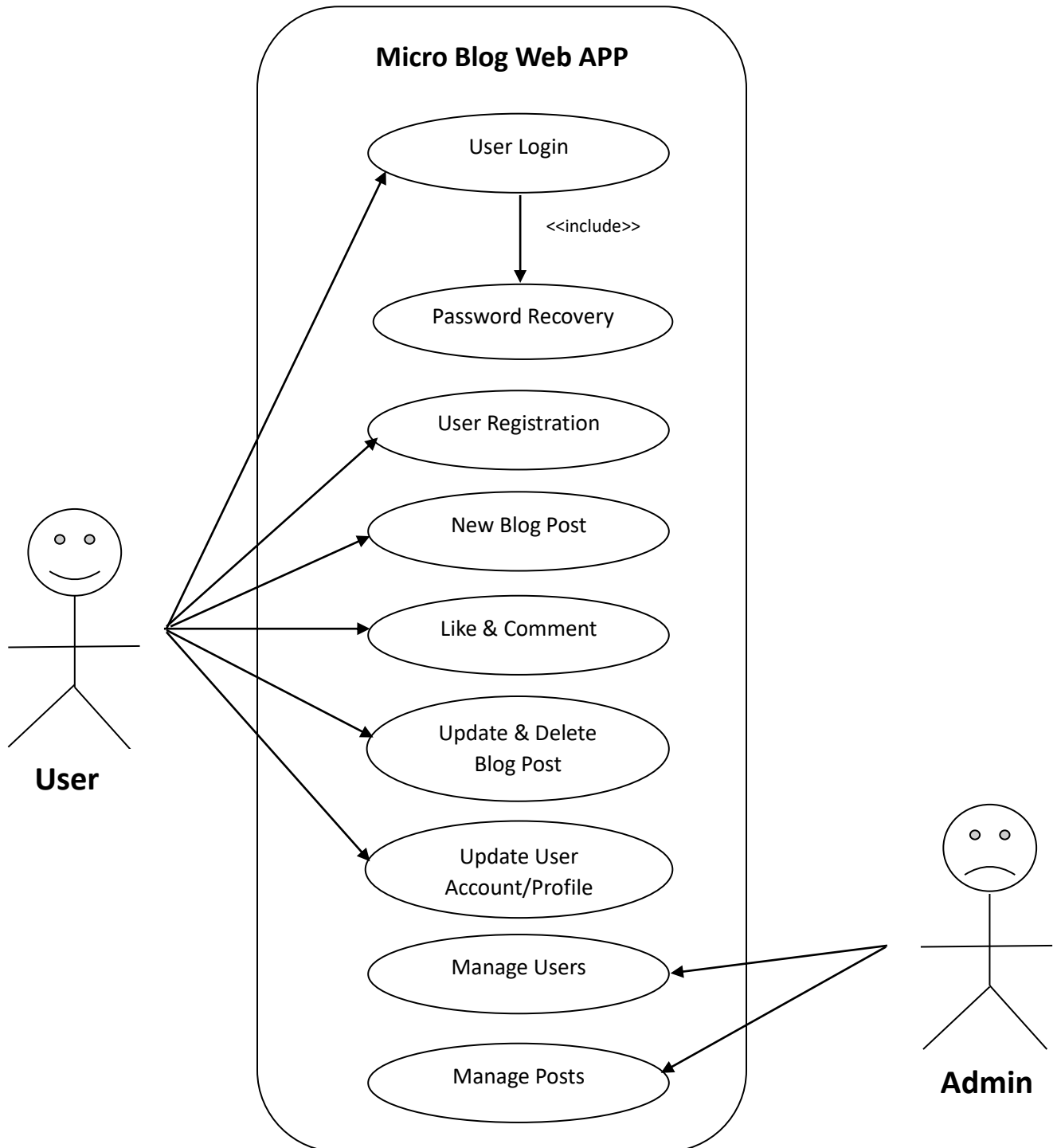
1. Functional Requirements

- **Login Module:** Users can log in; includes a "Forget Password" feature.
- **Registration Module:** Users can register for an account.
- **Home Page:** Displays all users' blogs with options to like and comment.
- **New Post Module:** Users can create new blogs with a title and content.
- **Profile Page:** Users can update their name etc. and profile picture.
- **Post Management:** Users can update and delete their own posts.

2. Non-Functional Requirements

- **Performance:** Fast loading and response times.
- **Security:** Secure user authentication and data protection.
- **Usability:** User Friendly interface.
- **Reliability:** Stable and consistent performance.

Use Cases Diagram

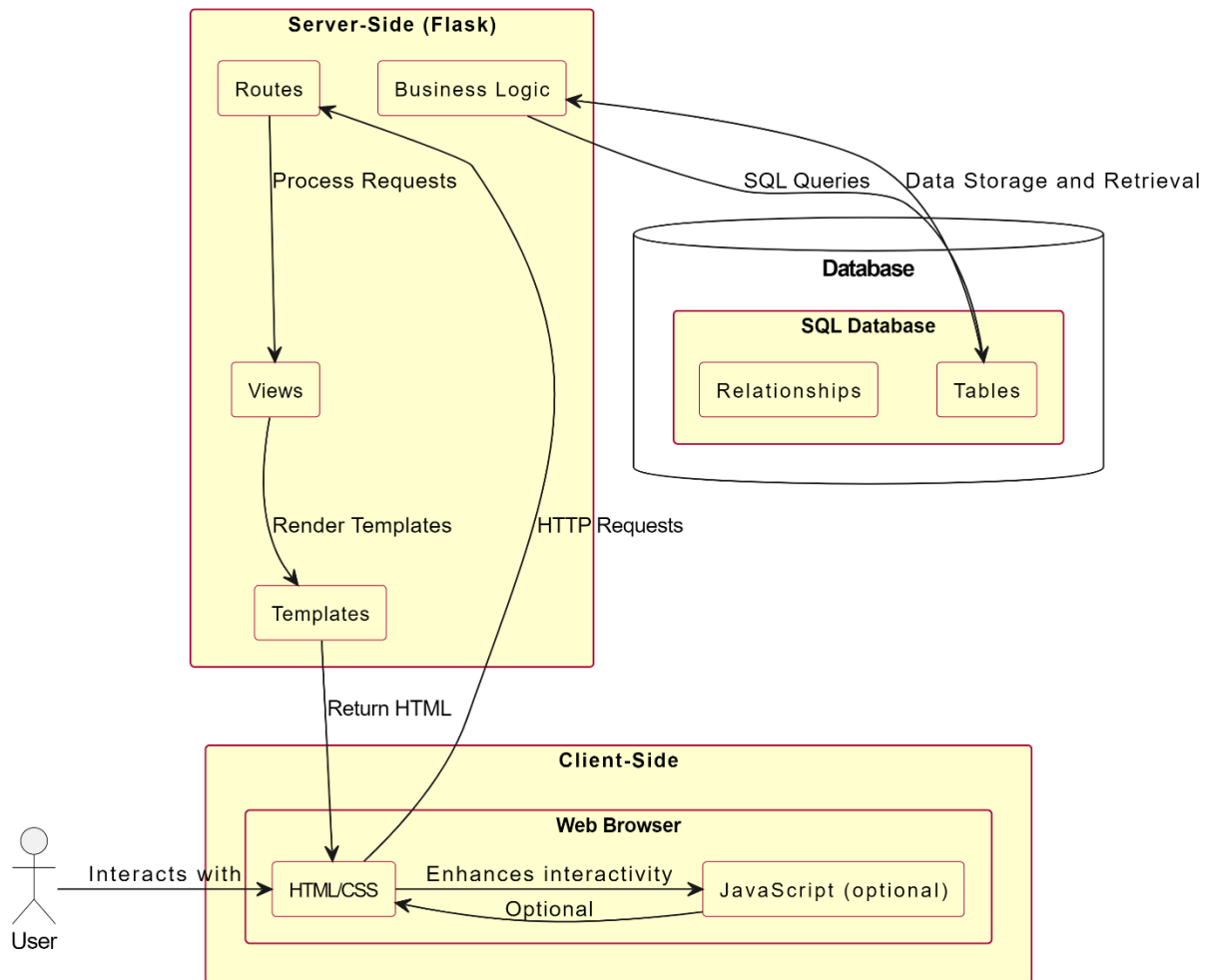


Tools and Technology

- **Front End:** HTML, CSS
- **Back End:** Flask (Python)
- **Database:** SQLite for development and if need to deploy the application so will switch to PostgreSQL.

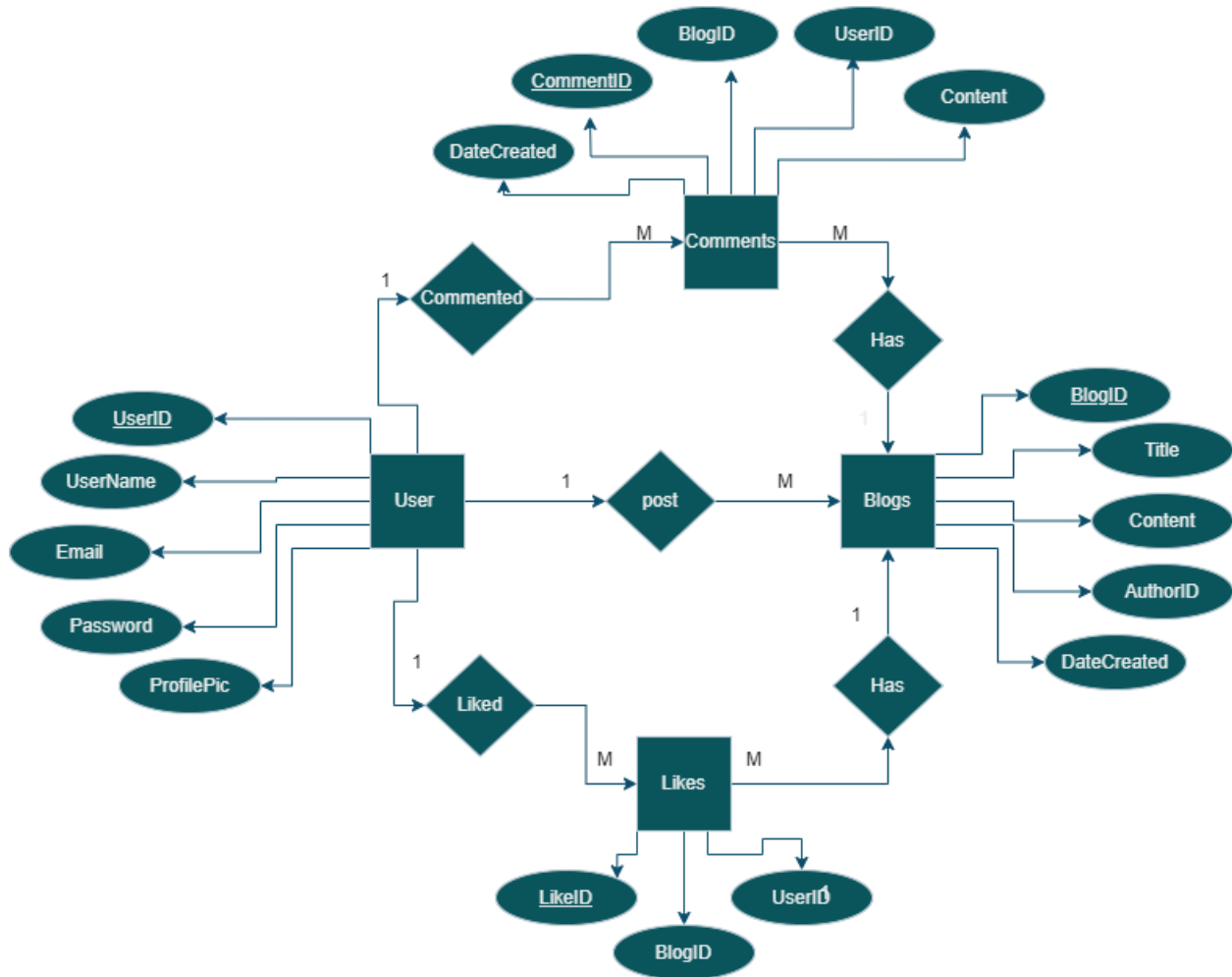
System Architecture

- **System Layout:**



- **ER Diagram:**

- Users: UserID, Username, Email, Password, ProfilePicture
- Blogs: BlogID, Title, Content, AuthorID, DateCreated
- Comments: CommentID, BlogID, UserID, Content, DateCreated
- Likes: LikeID, BlogID, UserID



Wireframes

Following are simple front-end design or wireframes that how my web app will look like.

- **Login Page:** Input fields for username, password, and a “Forget Password” link.

Micro Blog Web App
Registration

Email

something@gmail.com

Password

Login

Forgot Password?

- **Registration Page:** Input fields for username, email, and password.

Micro Blog Web App Registration

Username

Enter you name?

Email

Something@gmail.com

Password

Confirm Password

Sign UP

- **Home Page:** List of blogs with like and comment buttons.

Micro Blog Web App

HomeAbout

New PostAccountLogout

Blog#01

Blog#02

Blog#03

Sidebar

- **New Post Page:** Input fields for title and content.

Micro Blog Web App

Home

About

New Post

Account

Logout

New Post/Update Post

Title

The Title of the the Micro Blog

Content

Micro Blog Content

Post

Sidebar

- **Profile Page:** Fields for updating name and profile picture.

Micro Blog Web App


Home

About

New Post

Account

Logout



Bilal Shinwari

mbilalcr07@gmail.com

Account Info

Name


The Title of the the Micro Blog

Email

Micro Blog Content

Update Profile Picture

Choose File



Update

Sidebar