**Assignment: Role-Based Access Control (RBAC) UI**

**TECHNOLOGIES USED:**

**Frontend:**

**HTML:** Used for creating the structure and content of the web pages (login.html, register.html, profile.html).

**CSS:** Used for styling the web pages (login.css, register.css, profile.css).

**JAVASCRIPT (embedded)**: The necessary JavaScript logic has been embedded directly into the HTML (login.html, register.html, profile.html) for dynamic actions like loading posts, liking posts, and handling user roles and authentication.

**Backend:**

**Node.js:** The runtime environment for executing JavaScript on the server-side.

**Express.js**: The web application framework used to handle server-side routing for login, registration, and other operations.

**MySQL:** The database for storing user data, posts, and roles. MySQL queries are used in the backend (server.js) to interact with this data.

**bcryptjs:** For hashing user passwords to ensure secure authentication.

**jsonwebtoken (JWT):** Used for generating tokens for secure login and user authentication.

**dotenv**: For securely managing environment variables like database credentials**.**

**How to execute?**

1. Make sure you have node.js express, MySQL workbench for database.
2. Run the server on the port mentioned using command **node server.js** in the terminal.
3. Open your browser in the address bar give <http://localhost:5000>.
4. You can see a login page if you want to login directly you can use existed database details given below:

* username: main, password: 123, role Name: Admin
* username: sana, password: 1234, role Name: User

5.if you are Admin you can create a post.

6.If you are User you can like the post.