COLLEGE CODE:9111

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DATE:

Completed the project named as Phase I_

TECHNOLOGY PROJECT NAME: LOGIN AUTHENTICATION SYSTEM

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Project: Login Authentication System

1. Problem Statement

Many web and mobile applications lack a secure and user-friendly login system. Users often struggle with weak password storage, insecure authentication, and poor user experience during login and signup. A robust login authentication system is essential to provide secure access, prevent unauthorized access, and ensure smooth onboarding for users.

2. Users & Stakeholders

- **End Users**:
  - Students, employees, or general app users who need to log in securely.
- **System Admins**:
  - Manage user accounts, reset passwords, and monitor login activity.
- **Developers**:
  - Build and maintain the system with secure practices.
- **Organization/Business**:
  - Ensure data privacy, compliance, and a trustworthy platform.

3. User Stories

- As a user, I want to **sign up with my email/username and password** so that I can create an account.
- As a user, I want to **log in with my registered credentials** so that I can access my account securely.
- As a user, I want to **reset my password via email/OTP** if I forget it.
- As an admin, I want to **view and manage registered users** so that I can maintain the system.
- As a user, I want the system to **keep me logged in with a session/token** until I log out.

4. MVP Features

- **User Registration (Signup)**
- **User Login with password authentication**
- **Password Hashing (e.g., bcrypt/argon2)**
- **Session Management / JWT (JSON Web Tokens)**
- **Forgot Password (via email reset link or OTP)**
- **Logout functionality**
- **Basic Admin Panel (optional for MVP)**

5. Wireframes / API Endpoint List

Wireframes (basic screens)

1. **Signup Page** – form with username, email, password, confirm password.
2. **Login Page** – email/username + password fields.
3. **Dashboard Page** – visible only after successful login.
4. **Forgot Password Page** – reset request form.

API Endpoint List

Endpoint	Method	Description
/api/auth/signup	POST	Register a new user
/api/auth/login	POST	Authenticate and return token
/api/auth/logout	POST	Destroy session / invalidate token
/api/auth/forgot	POST	Send password reset link/OTP
/api/auth/reset	POST	Reset password with token/OTP
/api/users/me	GET	Get logged-in user details (profile)

6. Acceptance Criteria

- Users **must not be able to log in with incorrect credentials**.
- Passwords **must be stored securely** (hashed, never in plain text).
- A user **should be able to register and then immediately log in**.
- A logged-in user **should have access only to their own data**.
- On logging out, the **session/token must expire** and prevent further access.
- If a user forgets the password, they **must be able to reset it successfully**.
- The system must handle **at least 100 concurrent logins securely**.