

Assignment

Building an Authentication flow with Admin and User Roles

Objective

The objective of this assignment is to build an authentication flow with separate roles for admins and users. The system should include the following features: admin login, user login

Requirements

1. Admin Login:
 - Implement an admin login page where admins can enter their credentials (username and password) to access the admin dashboard.
 - Include server-side validation to verify the admin's credentials against stored information in the database.
 - Once authenticated, redirect the admin to the admin dashboard.
 - You can assume there is only one Admin and no new Admin can register on the platform.
2. User Login:
 - Create a user login page where users can enter their credentials (email and password) to access their user dashboard.
 - Implement authentication logic to validate the user's credentials against the stored information in the database.
 - Once authenticated, redirect the user to their user dashboard.
 - Use a JWT based approach to implement this.
 - Login state should get preserved on reload.
3. User Registration
 - Implement a registration page for users where they can enter their email address and a secure password.
 - Store the user's information securely in the database.
4. Admin Dashboard
 - List of Users registered
 - Ability to delete any user
 - (Bonus Level) Ability to create a new invite link to be shared for new registration (usable only once)
5. User Dashboard
 - User Basic Details (Name,Address, Profile Pic, Phone etc)

- Ability to edit details

6. (Bonus Level) User Registration with Unique Invite Link:

- Users should be able to register only if they have a unique invite link provided by the admin.
- If the user comes directly to the registration page and try to register, show them an error message - "invalid invite link , Please contact your Admin (admin's email id)"
- Validate the uniqueness of the invite link and ensure it can only be used once for registration.

7. (Bonus Level) Deploy the Backend and Frontend using any free service.

Deliverables

- A GitHub repository with a clear directory structure and version control commits.
- Documentation on how to set up the development environment, including any necessary configuration or database setup instructions.
- Code implementation adhering to the project's coding style and best practices.
- Proper error handling and validation to ensure the security and reliability of the system.

Tech Stack

- Any Javascript based framework and library of your choice (ReactJS, Express preferred)
- Any Database of your choice (Postgres preferred)