

○ **Explanation of code and Screenshot**

• **Signup Page Explanation**

This signup page is designed to allow users to create a new account by entering their personal details. It uses a clean, modern layout and performs proper validation to ensure that correct information is submitted. The page is responsive and works well on both desktop and mobile devices.

○ **Page Structure**

The page is divided into two main sections:

Left Section

The left section displays a welcome message. Its purpose is to make the page more attractive and user-friendly by greeting the user and encouraging them to register.

Right Section

The right section contains the actual registration form where users enter their details. It includes multiple input fields and a submit button.

○ **Form Fields**

The registration form collects the following information from the user:

- First Name
- Last Name
- Phone Number
- Email Address
- Password
- Confirm Password
- User Type (Student or Admin)

Each input field displays an error message if the entered data is invalid or missing.

• **Validation Logic**

Client-side validation is used to ensure that the data entered by the user is correct before submission.

- First name and last name must not be empty.
- Email must be entered in a valid email format.
- Phone number must contain exactly 10 digits.
- Password must meet minimum security requirements such as length, uppercase letter, and special character.
- Confirm password must match the password.
- User type must be selected.

If any field contains invalid data, an appropriate error message is displayed next to that field.

• **Password Features**

The password field includes additional usability and security features:

- A password strength indicator shows whether the password is weak, medium, or strong.

- Users can toggle the visibility of the password to check what they have typed.
- The confirm password field ensures that the user re-enters the same password.

- **User Feedback**

- Error messages are shown in red text when validation fails.
- A success message is displayed when all fields are correctly filled.
- The form does not submit to the server until all validations pass.

- **Styling and Design**

- The page uses a modern color gradient background.
- A glassmorphism-style container gives a professional look.
- Floating labels improve usability and visual clarity.
- Buttons are styled with gradients and hover effects.
- The layout adjusts automatically for smaller screens to ensure mobile responsiveness.

- **Overall Functionality**

The signup page provides a smooth and interactive user experience. It prevents incorrect data entry, improves security through password validation, and offers a clean and responsive design suitable for real-world applications.

○ Screenshot

The screenshot displays a user registration interface. On the left, a dark blue sidebar contains the text 'Welcome' and 'Create your account to get started'. The main area features a white 'Create Account' form with the following fields and validation messages:

Field	Validation Message
First Name	First name is required
Last Name	Last name is required
Phone	Phone number is required
Email	Email is required
Password	Password is required
Confirm Password	Confirm password
Select User Type	