**16.REACT**

**Index.html**

<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

    <meta name="viewport" content="width=device-width, initial-scale=1.0"/>

    <title>Mail Register App</title>

  </head>

  <body>

    <div id="root"></div>

  </body>

</html>

**App.js**

import React from 'react';

import Register from './Register';

function App() {

  return (

    <div className="App">

      <h2>Registration Form</h2>

      <Register />

    </div>

  );

}

export default App;

**index.js**

import React from 'react';

import ReactDOM from 'react-dom';

import App from './App';

ReactDOM.render(

  <React.StrictMode>

    <App />

  </React.StrictMode>,

  document.getElementById('root')

);

**Register.js**

import React, { useState } from 'react';

function Register() {

  const [form, setForm] = useState({ name: '', email: '', password: '' });

  const [errors, setErrors] = useState({});

  const handleChange = (e) => {

    const { name, value } = e.target;

    setForm({ ...form, [name]: value });

  };

  const validate = () => {

    const newErrors = {};

    if (form.name.length < 5) newErrors.name = 'Name must be at least 5 characters';

    if (!form.email.includes('@') || !form.email.includes('.')) newErrors.email = 'Invalid email';

    if (form.password.length < 8) newErrors.password = 'Password must be at least 8 characters';

    return newErrors;

  };

  const handleSubmit = (e) => {

    e.preventDefault();

    const validationErrors = validate();

    if (Object.keys(validationErrors).length === 0) {

      alert('Form submitted successfully!');

    } else {

      setErrors(validationErrors);

    }

  };

  return (

    <form onSubmit={handleSubmit}>

      <div>

        <label>Name:</label>

        <input type="text" name="name" value={form.name} onChange={handleChange} />

        {errors.name && <p style={{color:'red'}}>{errors.name}</p>}

      </div>

      <div>

        <label>Email:</label>

        <input type="email" name="email" value={form.email} onChange={handleChange} />

        {errors.email && <p style={{color:'red'}}>{errors.email}</p>}

      </div>

      <div>

        <label>Password:</label>

        <input type="password" name="password" value={form.password} onChange={handleChange} />

        {errors.password && <p style={{color:'red'}}>{errors.password}</p>}

      </div>

      <button type="submit">Register</button>

    </form>

  );

}

export default Register;

**Output:**

