**16 . REACTJS – HOL**

**A Hands-on Lab for Creating a Validated Registration Form Using React**

**Step 1: Create the React App**

**Open a terminal (or use VS Code terminal) and run:**

npx create-react-app mailregisterapp

cd mailregisterapp

**Step 2: Create the Component File**

Inside the src folder:

1. Create a file named Register.js (use capital R and no space or invalid characters).

**Step 3: Write the Register Component**

**Type this into Register.js:**

import React, { useState } from 'react';

function Register() {

const [formData, setFormData] = useState({

name: '',

email: '',

password: ''

});

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

const handleChange = (e) => {

setFormData({ ...formData, [e.target.name]: e.target.value });

};

const validate = () => {

let newErrors = {};

if (formData.name.length < 5) {

newErrors.name = "Name must be at least 5 characters.";

}

if (!formData.email.includes('@') || !formData.email.includes('.')) {

newErrors.email = "Email must contain '@' and '.'.";

}

if (formData.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!");

}

setErrors(validationErrors);

};

return (

<div style={{ padding: "20px", maxWidth: "400px" }}>

<h2>Register Form</h2>

<form onSubmit={handleSubmit}>

<div>

<label>Name:</label><br />

<input

type="text"

name="name"

value={formData.name}

onChange={handleChange}

/>

<div style={{ color: "red" }}>{errors.name}</div>

</div>

<div>

<label>Email:</label><br />

<input

type="text"

name="email"

value={formData.email}

onChange={handleChange}

/>

<div style={{ color: "red" }}>{errors.email}</div>

</div>

<div>

<label>Password:</label><br />

<input

type="password"

name="password"

value={formData.password}

onChange={handleChange}

/>

<div style={{ color: "red" }}>{errors.password}</div>

</div>

<br />

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

</form>

</div>

);

}

export default Register;

**Step 4: Use the Component in App.js**

**Open src/App.js and update it like this:**

import React from 'react';

import Register from './Register';

function App() {

return (

<div>

<Register />

</div>

);

}

export default App;

**Step 5: Run the App**

In terminal:

npm start

**Output**



