**ReactJS Hands-On Lab Report: Ticket Raising App with Forms**

**Objectives**

* Explain about React forms
* Define controlled components
* Explain about various input controls
* Explain about handling forms
* Explain about submitting forms

**In this hands-on lab, you will learn how to:**

* Implement React forms
* Use various input controls like textbox, button and textarea

**Prerequisites**

* Node.js
* NPM
* Visual Studio Code

**Step-by-Step Instructions**

**1. Create the React App**

Open terminal and run:

npx create-react-app ticketraisingapp

cd ticketraisingapp

code .

**2. Clean Up Boilerplate Code**

* Delete: App.test.js, logo.svg, reportWebVitals.js, setupTests.js
* Modify App.js as follows:

import React from 'react';

import ComplaintRegister from './ComplaintRegister';

function App() {

return (

<div className="App">

<h1>Ticket Raising App</h1>

<ComplaintRegister />

</div>

);

}

export default App;

**3. Create ComplaintRegister.js**

In the src/ folder, create a file named ComplaintRegister.js and paste this code:

import React, { useState } from 'react';

const ComplaintRegister = () => {

const [employeeName, setEmployeeName] = useState('');

const [complaint, setComplaint] = useState('');

const handleSubmit = (e) => {

e.preventDefault();

const refNumber = Math.floor(100000 + Math.random() \* 900000);

alert(`Complaint submitted!\nName: ${employeeName}\nComplaint: ${complaint}\nReference No: ${refNumber}`);

setEmployeeName('');

setComplaint('');

};

return (

<form onSubmit={handleSubmit}>

<div>

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

<input

type="text"

value={employeeName}

onChange={(e) => setEmployeeName(e.target.value)}

required

/>

</div>

<br />

<div>

<label>Complaint:</label><br />

<textarea

value={complaint}

onChange={(e) => setComplaint(e.target.value)}

required

/>

</div>

<br />

<button type="submit">Submit Complaint</button>

</form>

);

};

export default ComplaintRegister;

**4. Run the Application**

Use the terminal:

npm start

**Concepts Explained**

* **React Forms**: Built using <form>, <input>, <textarea> elements.
* **Controlled Components**: Each input is managed with useState.
* **Input Controls**: Used textbox, textarea, and button.
* **Handling Forms**: onChange and onSubmit handle input and submission.
* **Form Submission**: handleSubmit() shows a success alert with a random reference number.





