**ReactJS Hands-On Lab Report – Using React State in Counter App**

**Objectives**

* Explain React State

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

* Use React State object to manage internal component data

**Prerequisites**

* Node.js
* NPM
* Visual Studio Code

**Step-by-Step Instructions**

1. Open Command Prompt and run:
2. npx create-react-app counterapp
3. Navigate to project folder:
4. cd counterapp
5. Open the project in Visual Studio Code:
6. code .
7. Create a new file CountPeople.js inside the src folder and paste the CountPeople component code below.
8. Modify App.js to include and render CountPeople.
9. Run the app using:
10. npm start

**Code: CountPeople.js**

import React from 'react';

class CountPeople extends React.Component {

constructor(props) {

super(props);

this.state = {

entrycount: 0,

exitcount: 0

};

}

UpdateEntry = () => {

this.setState((prevState) => ({

entrycount: prevState.entrycount + 1

}));

}

UpdateExit = () => {

this.setState((prevState) => ({

exitcount: prevState.exitcount + 1

}));

}

render() {

return (

<div style={{ border: "2px solid gray", padding: "20px", width: "300px", margin: "auto", marginTop: "50px", textAlign: "center" }}>

<h2>Welcome to the Mall</h2>

<p>People Entered: {this.state.entrycount}</p>

<p>People Exited: {this.state.exitcount}</p>

<button onClick={this.UpdateEntry}>Login</button> &nbsp;

<button onClick={this.UpdateExit}>Exit</button>

</div>

);

}

}

export default CountPeople;

**Code: App.js**

import React from 'react';

import './App.css';

import CountPeople from './CountPeople';

function App() {

return (

<div className="App">

<CountPeople />

</div>

);

}

export default App;

