**8.ReactJs HOL**

* **Explain React State**

React State is a way to store and manage dynamic data inside a React component. It allows your UI to respond when things change, like when a user clicks a button, types in an input, or data is updated.

**Use State**

That changing number must be stored somewhere — that’s where **state** is used.

**Example:**

**In Functional Components**

Use the useState() hook.

import React, { useState } from 'react';

function Counter() {

const [count, setCount] = useState(0); // count = current value, setCount = function to update

return (

<div>

<p>You clicked {count} times</p>

<button onClick={() => setCount(count + 1)}>

Click Me

</button>

</div>

);

}

**In Class Components**

Use this.state and this.setState().

import React from 'react';

class Counter extends React.Component {

constructor() {

super();

this.state = {

count: 0

};

}

increase = () => {

this.setState({ count: this.state.count + 1 });

}

render() {

return (

<div>

<p>You clicked {this.state.count} times</p>

<button onClick={this.increase}>Click Me</button>

</div>

);

}

}

**Create a React App “counterapp” which will have a component named “CountPeople” which will have 2 methods.**

**UpdateEntry() 🡪 which will display the number of people who entered the mall.**

**UpdateExit() 🡪 which will display the number of people who exited the mall.**

**CountPeople.js**

import React from 'react';

class CountPeople extends React.Component {

constructor(props) {

super(props);

// Initializing state

this.state = {

entrycount: 0,

exitcount: 0

};

}

// Update entry count

UpdateEntry = () => {

this.setState({ entrycount: this.state.entrycount + 1 });

};

// Update exit count

UpdateExit = () => {

this.setState({ exitcount: this.state.exitcount + 1 });

};

render() {

return (

<div style={{ textAlign: 'center', marginTop: '100px' }}>

<h1>Mall People Counter</h1>

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

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

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

<button onClick={this.UpdateExit} style={{ marginLeft: '10px' }}>Exit</button>

</div>

);

}

}

export default CountPeople;

**App.js**

import React from 'react';

import CountPeople from './CountPeople';

function App() {

return (

<div className="App">

<CountPeople />

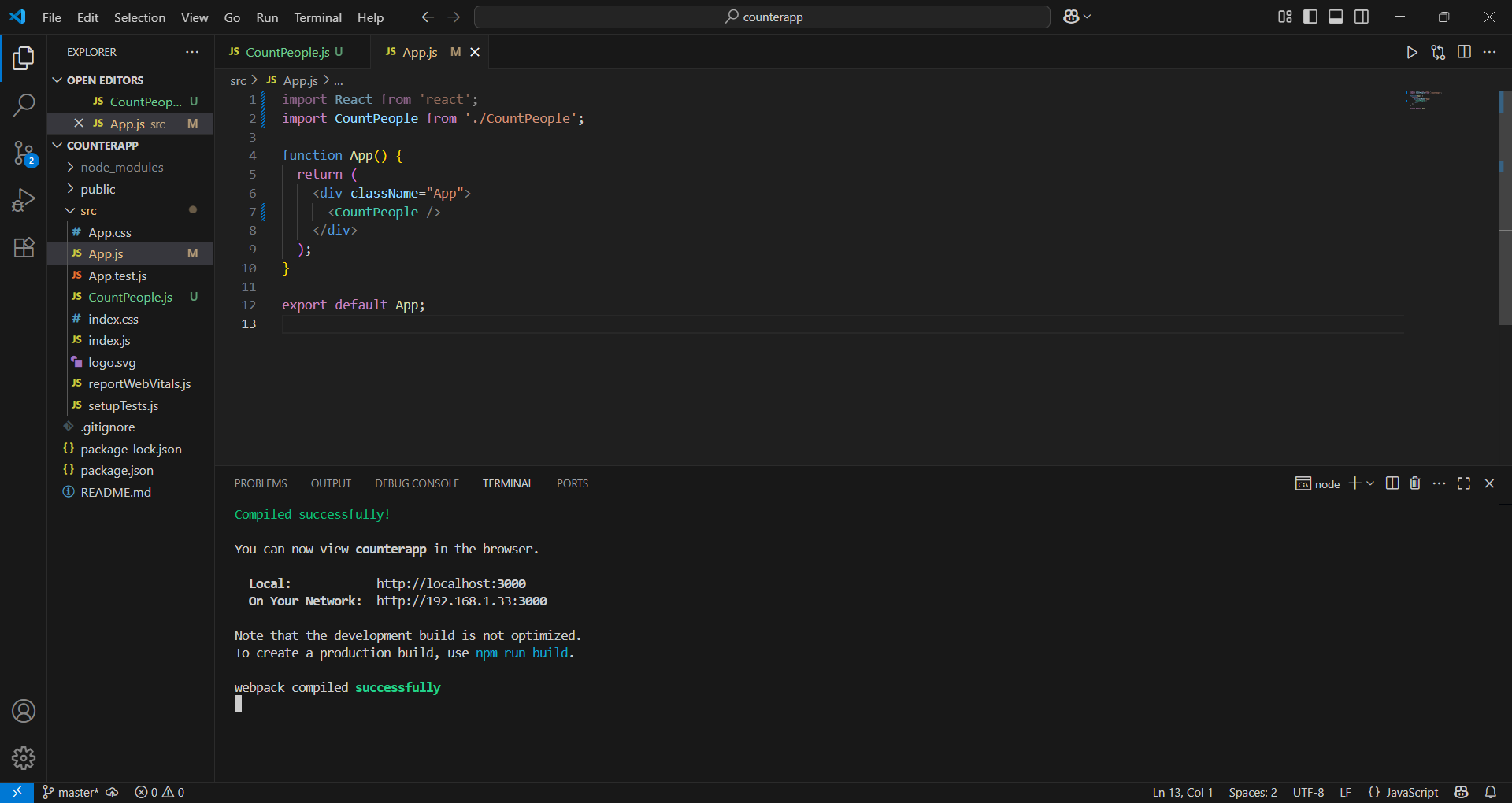
</div>

);

}

export default App;

**Final Output:**

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