**11. ReactJS-HOL**

**App.js**

import React, { Component } from 'react';

import CurrencyConvertor from './CurrencyConvertor';

class App extends Component {

constructor(props) {

super(props);

this.state = {

counter: 0

};

}

// Increment function

increment = () => {

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

};

// Decrement function

decrement = () => {

this.setState({ counter: this.state.counter - 1 });

};

// Multiple functions for Increment button

sayHello = () => {

console.log("Hello! This is a static message.");

alert("Hello! This is a static message.");

};

handleIncrementClick = () => {

this.increment(); // Increment counter

this.sayHello(); // Say Hello

};

// Function with argument

sayWelcome = (message) => {

alert(`Welcome message: ${message}`);

};

// Synthetic event example

handleSyntheticEvent = (e) => {

alert(`I was clicked! Event Type: ${e.type}`);

};

render() {

return (

<div style={{ textAlign: 'center', marginTop: '30px', fontFamily: 'Arial' }}>

<h1>React Event Handling Example</h1>

{/\* Counter Section \*/}

<h2>Counter: {this.state.counter}</h2>

<button onClick={this.handleIncrementClick} style={{ marginRight: '10px' }}>

Increment

</button>

<button onClick={this.decrement}>

Decrement

</button>

<hr />

{/\* Button with argument \*/}

<button onClick={() => this.sayWelcome("Welcome to React Events!")}>

Say Welcome

</button>

<hr />

{/\* Synthetic Event \*/}

<button onClick={this.handleSyntheticEvent}>

OnPress Synthetic Event

</button>

<hr />

{/\* Currency Converter Component \*/}

<CurrencyConvertor />

</div>

);

}

}

export default App;

**CurrencyConvertor.js**

import React, { Component } from 'react';

class CurrencyConvertor extends Component {

constructor(props) {

super(props);

this.state = {

rupees: '',

euro: ''

};

}

handleChange = (event) => {

this.setState({ rupees: event.target.value });

};

handleSubmit = (event) => {

event.preventDefault(); // prevent page reload

const rupees = parseFloat(this.state.rupees);

if (isNaN(rupees)) {

alert("Please enter a valid number");

return;

}

// 1 Euro = approx 90 INR (for demo purposes)

const euro = (rupees / 90).toFixed(2);

this.setState({ euro });

};

render() {

return (

<div style={{ marginTop: '30px' }}>

<h2>Currency Converter (INR to Euro)</h2>

<form onSubmit={this.handleSubmit}>

<input

type="text"

placeholder="Enter amount in Rupees"

value={this.state.rupees}

onChange={this.handleChange}

/>

<button type="submit" style={{ marginLeft: '10px' }}>Convert</button>

</form>

{this.state.euro && (

<p>{this.state.rupees} INR = {this.state.euro} EUR</p>

)}

</div>

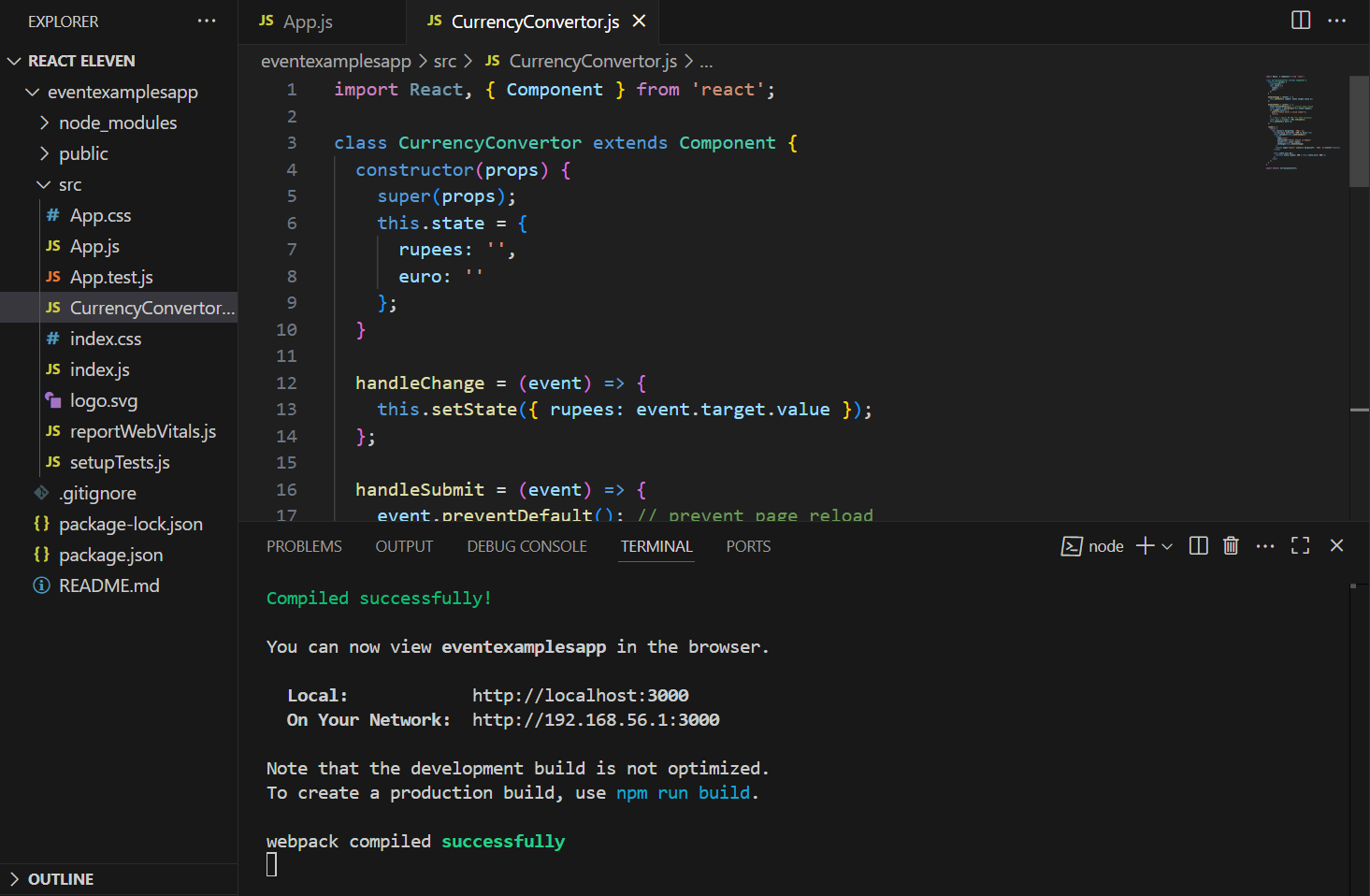
);

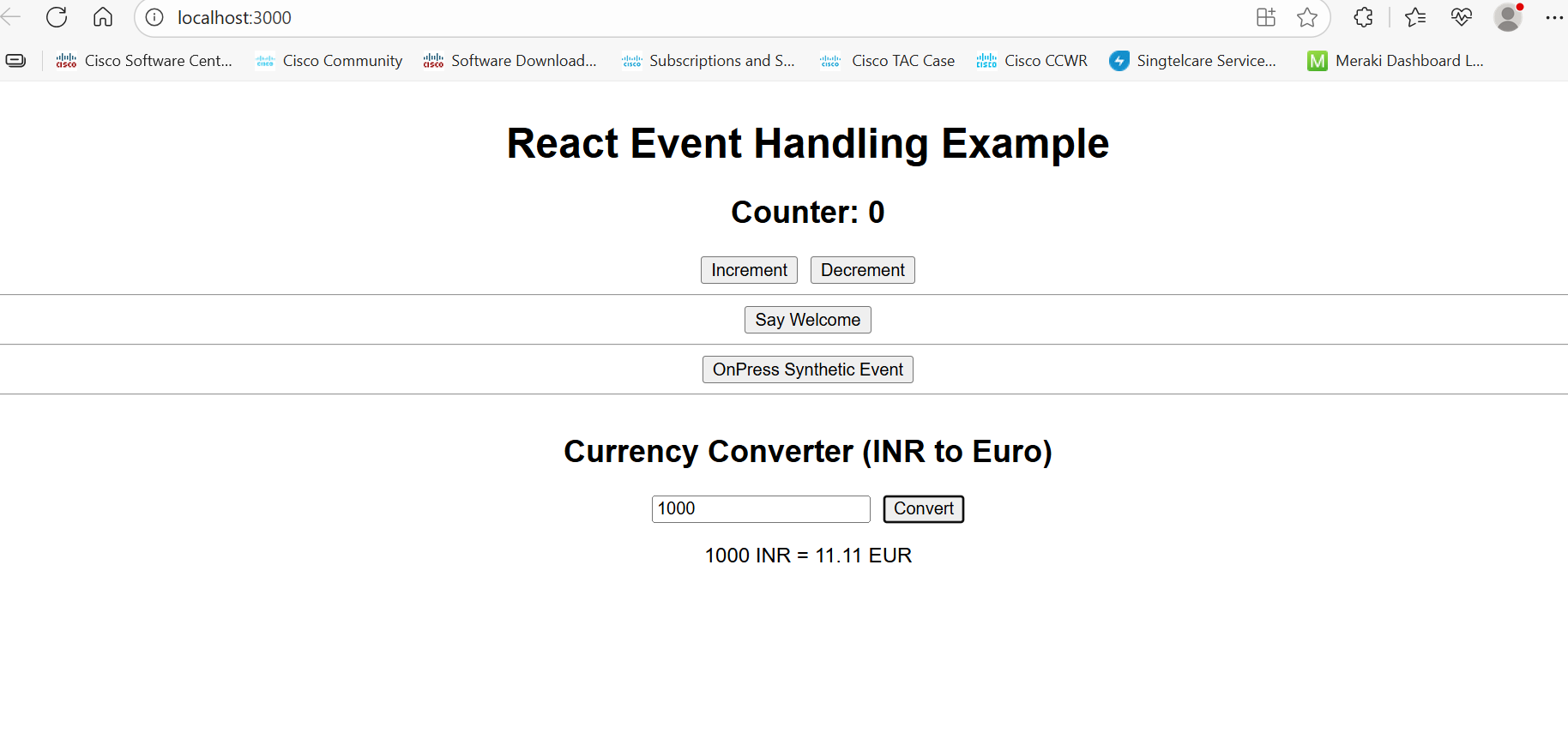
}

}

export default CurrencyConvertor;

**Output:**

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