**React HOL-11**

**Explain React events**

React events are **JavaScript events** that work similarly to DOM events but are handled using React's **own event system**. They allow you to respond to user actions like clicks, form submissions, key presses, etc., inside React components.

**Explain about event handlers**

**Event handlers** are functions that are triggered when a specific event occurs. In React, you define event handlers as **functions** and pass them as props to JSX elements using the appropriate event attributes (like onClick, onChange, etc.).

**Define Synthetic events**

A **SyntheticEvent** is React’s **cross-browser wrapper** around the native browser event. It normalizes events so they behave consistently across different browsers and devices. React pools these events for performance optimization.

**Identify React event naming convention**

In React, event names:

* **Use camelCase** instead of lowercase (e.g., onClick vs. HTML's onclick)
* Are written as **JSX attributes**
* Are assigned to **functions**, not strings

**App.jsx**

import React, {Component} from "react";

class App extends Component {

constructor(props) {

super(props);

this.state = {

count: 0,

amount: '',

currency: ''

};

}

increment = () =>{

this.setState(prevState => ({count: prevState.count+1}));

this.sayHello();

};

decrement = () =>{

this.setState(prevState => ({count: prevState.count-1}));

}

sayHello = () => {

alert("Hello !!");

};

sayWelcome = () => {

alert("Welcome");

}

handleClick = () =>{

alert("I was clicked");

}

handleChange = (e) => {

this.setState({ [e.target.name]: e.target.value });

};

handleSubmit = (e) => {

e.preventDefault();

const amountInINR = parseFloat(this.state.amount);

if (isNaN(amountInINR) || amountInINR <= 0) {

alert("Please enter a valid amount");

return;

}

const euroValue = (amountInINR / 90).toFixed(2); // Example: 1 Euro = 90 INR

alert(`${this.state.amount} INR is converted to ${euroValue} euros`);

};

render() {

const headingStyle = {

color: 'green',

fontWeight: 'bold',

fontSize: '28px'

};

return (

<div style={{padding: '20px',fontFamily: 'Arial'}}>

<p>{this.state.count}</p>

<button onClick={this.increment}>Increment</button> <br />

<button onClick={this.decrement}>Decrement</button><br />

<button onClick={this.sayWelcome}>Say Welcome</button><br />

<button onClick={this.handleClick}>Click on me</button>

<h2 style={headingStyle}>Currency Convertor</h2>

<form onSubmit={this.handleSubmit}>

<label>

Amount:

<input type="text" name="amount" value={this.state.amount} onChange={this.handleChange} />

</label>

<br />

{/\* <label>

Currency:

<input type="text" name="currency" value={this.state.currency} onChange={this.handleChange} />

</label>

<br /> \*/}

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

</form>

</div>

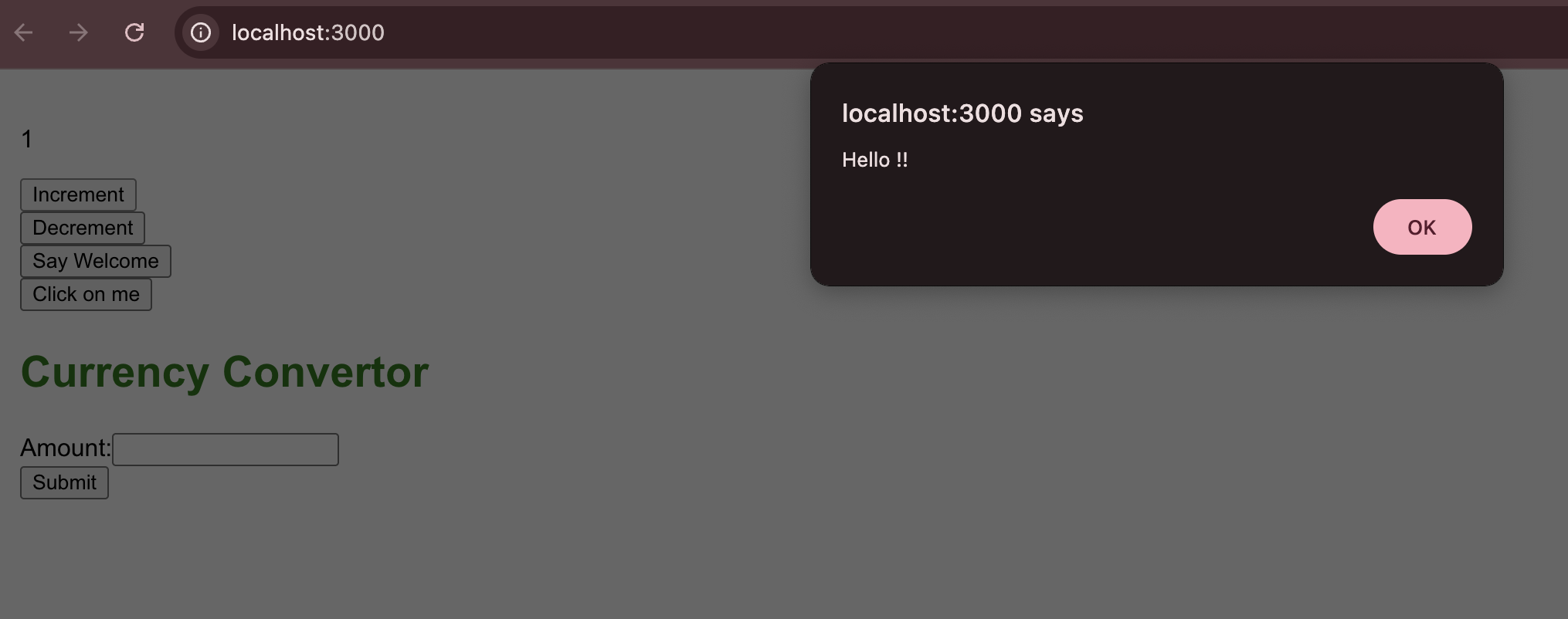
);

}

}

export default App;

**Output**



A screenshot of a computer

AI-generated content may be incorrect.

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