**11. ReactJS-HOL**

**Create a React Application “eventexamplesapp” to handle various events of the form elements in HTML.**

# Project Structure

eventexamplesapp/  
├── public/  
│ └── index.html  
├── src/  
│ ├── App.js  
│ ├── CurrencyConvertor.js  
│ └── index.js  
├── package.json

# src/index.js

import React from 'react';  
import ReactDOM from 'react-dom/client';  
import App from './App';  
  
const root = ReactDOM.createRoot(document.getElementById('root'));  
root.render(<App />);

# src/CurrencyConvertor.js

import React, { useState } from 'react';  
  
function CurrencyConvertor() {  
 const [rupees, setRupees] = useState('');  
 const [euros, setEuros] = useState('');  
  
 const handleConvert = () => {  
 const euroRate = 0.011; // Example rate  
 setEuros((rupees \* euroRate).toFixed(2));  
 };  
  
 return (  
 <div style={{ marginTop: '20px' }}>  
 <h3> Currency Convertor</h3>  
 <input  
 type="number"  
 placeholder="Enter amount in INR"  
 value={rupees}  
 onChange={(e) => setRupees(e.target.value)}  
 />  
 <button onClick={handleConvert}>Convert</button>  
 <p>Converted Euro Amount: €{euros}</p>  
 </div>  
 );  
}  
  
export default CurrencyConvertor;

# src/App.js

import React, { Component } from 'react';  
import CurrencyConvertor from './CurrencyConvertor';  
  
class App extends Component {  
 constructor(props) {  
 super(props);  
 this.state = {  
 count: 0,  
 message: '',  
 };  
 }  
  
 increment = () => {  
 this.setState((prevState) => ({ count: prevState.count + 1 }), () => {  
 this.sayHello();  
 });  
 };  
  
 decrement = () => {  
 this.setState((prevState) => ({ count: prevState.count - 1 }));  
 };  
  
 sayHello = () => {  
 this.setState({ message: 'Hello! This is a static message.' });  
 };  
  
 sayWelcome = (msg) => {  
 this.setState({ message: msg });  
 };  
  
 handleClick = (e) => {  
 this.setState({ message: 'I was clicked' });  
 };  
  
 render() {  
 return (  
 <div style={{ margin: '20px', fontFamily: 'Arial' }}>  
 <h1> Event Handling in React</h1>  
 <p>Counter: {this.state.count}</p>  
 <button onClick={this.increment}>Increment</button>  
 <button onClick={this.decrement}>Decrement</button>  
 <br /><br />  
 <button onClick={() => this.sayWelcome('Welcome!')}>Say Welcome</button>  
 <br /><br />  
 <button onClick={this.handleClick}>Synthetic Event</button>  
 <p>{this.state.message}</p>  
 <CurrencyConvertor />  
 </div>  
 );  
 }  
}  
  
export default App;

# public/index.html

<!DOCTYPE html>  
<html lang="en">  
 <head>  
 <meta charset="UTF-8" />  
 <link rel="icon" href="%PUBLIC\_URL%/favicon.ico" />  
 <meta name="viewport" content="width=device-width, initial-scale=1.0" />  
 <title>Event Example App</title>  
 </head>  
 <body>  
 <div id="root"></div>  
 </body>  
</html>

# Output Screenshot

npx create-react-app eventexamplesapp  
cd eventexamplesapp  
# Replace the App.js, index.js and create CurrencyConvertor.js with the above code  
npm start