ReactJS Hands-On Lab Report: Event Handling App

# Objectives

- Explain React events  
- Explain about event handlers  
- Define Synthetic event  
- Identify React event naming convention

# Lab Outcomes

In this hands-on lab, we will:  
- Implement event handling in React applications  
- Use `this` keyword in event handlers  
- Use React Synthetic Events

# Prerequisites

- Node.js  
- NPM (comes with Node.js)  
- Visual Studio Code

# Step-by-Step Instructions

## 1. Create the React App

Open a terminal or command prompt and run the following commands:  
npx create-react-app eventexamplesapp  
cd eventexamplesapp  
code .

## 2. Clean Up Default Files

In the 'src' folder, delete unnecessary files:  
- App.test.js  
- logo.svg  
- reportWebVitals.js  
- setupTests.js

## 3. Modify App.js

import React, { Component } from 'react';  
import CurrencyConvertor from './CurrencyConvertor';  
  
class App extends Component {  
 constructor(props) {  
 super(props);  
 this.state = {  
 count: 0  
 };  
 }  
  
 increment = () => {  
 this.setState({ count: this.state.count + 1 });  
 this.sayHello();  
 this.sayMessage();  
 }  
  
 decrement = () => {  
 this.setState({ count: this.state.count - 1 });  
 }  
  
 sayHello = () => {  
 console.log("Hello!");  
 }  
  
 sayMessage = () => {  
 console.log("This is a static message from Increment button.");  
 }  
  
 sayWelcome = (msg) => {  
 alert(msg);  
 }  
  
 handlePress = (e) => {  
 alert("I was clicked");  
 console.log("Synthetic event:", e);  
 }  
  
 render() {  
 return (  
 <div className="App">  
 <h1>Event Handling in React</h1>  
 <h2>Counter: {this.state.count}</h2>  
  
 <button onClick={this.increment}>Increment</button>  
 <button onClick={this.decrement}>Decrement</button>  
  
 <br /><br />  
  
 <button onClick={() => this.sayWelcome("Welcome to React Events!")}>  
 Say Welcome  
 </button>  
  
 <br /><br />  
  
 <button onClick={this.handlePress}>Synthetic Event OnPress</button>  
  
 <br /><br />  
 <CurrencyConvertor />  
 </div>  
 );  
 }  
}  
  
export default App;

## 4. Create CurrencyConvertor.js

import React, { Component } from 'react';  
  
class CurrencyConvertor extends Component {  
 constructor(props) {  
 super(props);  
 this.state = {  
 rupees: '',  
 euro: ''  
 };  
 }  
  
 handleChange = (e) => {  
 this.setState({ rupees: e.target.value });  
 }  
  
 handleSubmit = () => {  
 const converted = (this.state.rupees / 90).toFixed(2);  
 this.setState({ euro: converted });  
 }  
  
 render() {  
 return (  
 <div>  
 <h2>Currency Converter (INR to EURO)</h2>  
 <input   
 type="number"   
 placeholder="Enter Rupees"   
 value={this.state.rupees}   
 onChange={this.handleChange}   
 />  
 <button onClick={this.handleSubmit}>Convert</button>  
 <p>Euro: €{this.state.euro}</p>  
 </div>  
 );  
 }  
}  
  
export default CurrencyConvertor;  




