**WEEK 7 : REACT Hands On 11**

**Creating a React Event Examples Application**

**Code :**

**App.css**

.App {

max-width: 800px;

margin: 0 auto;

padding: 20px;

font-family: Arial, sans-serif;

}

h1 {

text-align: center;

color: #2c3e50;

}

.example-section {

border: 1px solid #ddd;

border-radius: 8px;

padding: 20px;

margin-bottom: 20px;

background-color: #f9f9f9;

}

button {

background-color: #3498db;

color: white;

border: none;

padding: 10px 15px;

margin: 5px;

border-radius: 4px;

cursor: pointer;

font-size: 14px;

}

button:hover {

background-color: #2980b9;

}

input {

padding: 8px;

margin: 10px;

border: 1px solid #ddd;

border-radius: 4px;

}

label {

display: block;

margin-bottom: 10px;

}

**App.js**

import React, { useState } from 'react';

import './App.css';

function App() {

// Counter example

const [count, setCount] = useState(0);

// Welcome message example

const [welcomeMessage, setWelcomeMessage] = useState('');

// Synthetic event example

const [clickMessage, setClickMessage] = useState('');

// Currency converter example

const [rupees, setRupees] = useState('');

const [euros, setEuros] = useState('');

const [conversionMessage, setConversionMessage] = useState('');

// Counter methods

const incrementCount = () => {

setCount(prevCount => prevCount + 1);

};

const sayHello = () => {

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

};

const handleIncrement = (e) => {

incrementCount();

sayHello();

};

const decrementCount = () => {

setCount(prevCount => prevCount - 1);

};

// Welcome message method

const displayWelcome = (message) => {

setWelcomeMessage(message);

};

// Synthetic event handler

const handleClick = (e) => {

setClickMessage("I was clicked");

console.log("Synthetic event:", e);

};

// Currency converter methods

const handleRupeesChange = (e) => {

setRupees(e.target.value);

};

const handleSubmit = (e) => {

e.preventDefault();

const conversionRate = 0.011; // 1 INR = 0.011 EUR (approximate)

const euroValue = parseFloat(rupees) \* conversionRate;

setEuros(euroValue.toFixed(2));

setConversionMessage(`₹${rupees} = €${euroValue.toFixed(2)}`);

};

return (

<div className="App">

<h1>React Event Handling Examples</h1>

{/\* Counter Example \*/}

<div className="example-section">

<h2>Counter Example</h2>

<p>Current Count: {count}</p>

<button onClick={handleIncrement}>Increment</button>

<button onClick={decrementCount}>Decrement</button>

</div>

{/\* Welcome Message Example \*/}

<div className="example-section">

<h2>Welcome Message Example</h2>

<button onClick={() => displayWelcome("Welcome to React Events!")}>

Say Welcome

</button>

{welcomeMessage && <p>{welcomeMessage}</p>}

</div>

{/\* Synthetic Event Example \*/}

<div className="example-section">

<h2>Synthetic Event Example</h2>

<button onClick={handleClick}>Click Me</button>

{clickMessage && <p>{clickMessage}</p>}

</div>

{/\* Currency Converter Example \*/}

<div className="example-section">

<h2>Currency Converter</h2>

<form onSubmit={handleSubmit}>

<label>

Indian Rupees:

<input

type="number"

value={rupees}

onChange={handleRupeesChange}

placeholder="Enter amount in ₹"

required

/>

</label>

<button type="submit">Convert to Euros</button>

</form>

{conversionMessage && <p>{conversionMessage}</p>}

</div>

</div>

);

}

export default App;

**Output :**

