**WEEK 7**

**11. ReactJS-HOL**

**Create App**

npx create-react-app eventexamplesapp

cd eventexamplesapp

npm start

**Counter.jsx – Increment/Decrement with Multiple Methods**

// src/components/Counter.jsx

import React, { Component } from 'react';

class Counter extends Component {

constructor(props) {

super(props);

this.state = { count: 0 };

this.incrementAll = this.incrementAll.bind(this);

}

increment = () => {

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

};

sayHello = () => {

console.log("Hello! Keep going. You're learning events!");

};

incrementAll() {

this.increment();

this.sayHello();

}

decrement = () => {

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

};

render() {

return (

<div>

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

<button onClick={this.incrementAll}>Increment</button>

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

</div>

);

}

}

export default Counter;

**WelcomeButton.jsx – Function with Argument**

// src/components/WelcomeButton.jsx

import React from 'react';

function WelcomeButton() {

const sayWelcome = (message) => {

alert(message);

};

return (

<div>

<button onClick={() => sayWelcome("Welcome!")}>Say Welcome</button>

</div>

);

}

export default WelcomeButton;

**SyntheticEventExample.jsx – Using Synthetic Event**

// src/components/SyntheticEventExample.jsx

import React from 'react';

function SyntheticEventExample() {

const handleClick = (event) => {

alert("I was clicked");

console.log("SyntheticEvent:", event);

};

return (

<div>

<button onClick={handleClick}>Click me (Synthetic Event)</button>

</div>

);

}

export default SyntheticEventExample;

**CurrencyConvertor.jsx – Button with Form Submit & Conversion**

// src/components/CurrencyConvertor.jsx

import React, { useState } from 'react';

function CurrencyConvertor() {

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

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

const handleSubmit = (e) => {

e.preventDefault();

const conversionRate = 0.011; // Example rate: ₹1 = €0.011

const converted = (parseFloat(rupees) \* conversionRate).toFixed(2);

setEuros(converted);

};

return (

<div>

<h2>Currency Convertor (INR ➡ EUR)</h2>

<form onSubmit={handleSubmit}>

<input

type="number"

value={rupees}

onChange={(e) => setRupees(e.target.value)}

placeholder="Enter amount in INR"

required

/>

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

</form>

{euros !== null && <p>€{euros}</p>}

</div>

);

}

export default CurrencyConvertor;

**App.js – Import All Components**

// src/App.js

import React from 'react';

import Counter from './components/Counter';

import WelcomeButton from './components/WelcomeButton';

import SyntheticEventExample from './components/SyntheticEventExample';

import CurrencyConvertor from './components/CurrencyConvertor';

function App() {

return (

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

<h1> React Event Examples</h1>

<Counter />

<hr />

<WelcomeButton />

<hr />

<SyntheticEventExample />

<hr />

<CurrencyConvertor />

</div>

);

}

export default App;