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1. **ReactJS**

**React events**

In React, events are how you handle user interactions like clicks, input typing, form submissions, etc., similar to HTML DOM events — but with a consistent and cross-browser wrapper.

**Event handlers**

An event handler is a function that is called when an event occurs. In React, event handlers are typically defined as arrow functions or regular functions and passed to event props like onClick, onChange, etc.

**Synthetic Event**

React uses SyntheticEvent, a wrapper around the browser’s native event system. It ensures:

* Events are normalized across all browsers.
* Performance is improved via event pooling.

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

**App.js**

import React, { useState } from "react";

import CurrencyConvertor from "./CurrencyConvertor";

function App() {

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

const increment = () => {

setCount(count + 1);

sayHello();

};

const decrement = () => {

setCount(count - 1);

};

const sayHello = () => {

alert("Hello! Keep clicking ");

};

const sayWelcome = (message) => {

alert("Message: " + message);

};

const handleOnPress = () => {

alert("I was clicked!");

};

return (

<div style={{ textAlign: "center", padding: "40px" }}>

<h2>React Events and Handlers</h2>

<h3>Counter: {count}</h3>

<button onClick={increment}>Increment</button>{" "}

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

<br /><br />

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

<br /><br />

<button onClick={handleOnPress}>OnPress</button>

<hr style={{ margin: "40px 0" }} />

<CurrencyConvertor />

</div>

);

}

export default App;

**CurrencyConvertor.js**

import React, { useState } from "react";

function CurrencyConvertor() {

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

const [euro, setEuro] = useState("");

const handleSubmit = () => {

const converted = parseFloat(rupees) / 90; // Example: ₹90 = €1

setEuro(converted.toFixed(2));

};

return (

<div>

<h2>Currency Convertor</h2>

<input

type="number"

placeholder="Enter amount in INR"

value={rupees}

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

/>

<br /><br />

<button onClick={handleSubmit}>Convert</button>

{euro && (

<p>

<strong>€ Euro:</strong> {euro}

</p>

)}

</div>

);

}

export default CurrencyConvertor;

**Outputs:-**





