Week – 7:
REACT-JS-HOL – 11

1. Explain React Events

In React, events are actions that occur due to user interaction such as clicking, typing, submitting, hovering, etc.

React events are very similar to DOM events in plain JavaScript, but with a few differences:

- React uses a cross-browser wrapper around the browser's native events called SyntheticEvent.

- React events are written in camelCase (e.g., onClick instead of

onclick). Example:

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

2. Explain Event Handlers

An event handler is a function that gets called when an event is

triggered. In React:

- You assign the handler function directly inside JSX.

- You do not use parentheses unless you're passing

arguments. Example:

function handleClick() {

alert('Button was clicked!');

}

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

With parameters:<button onClick={() => handleClick("Hi")}>Click</button>

3.Define Synthetic Event

A SyntheticEvent is React's cross-browser wrapper around the native browser event. It normalizes events so that they behave the same in every browser.

- It wraps the native DOM event and provides the same interface.

- It's part of React's event system for better performance and consistency.

Example: function handleChange(e) {

console.log(e); // SyntheticEvent

console.log(e.target.value); // Access input

value

}

<input type="text" onChange={handleChange} />

4. React Event Naming

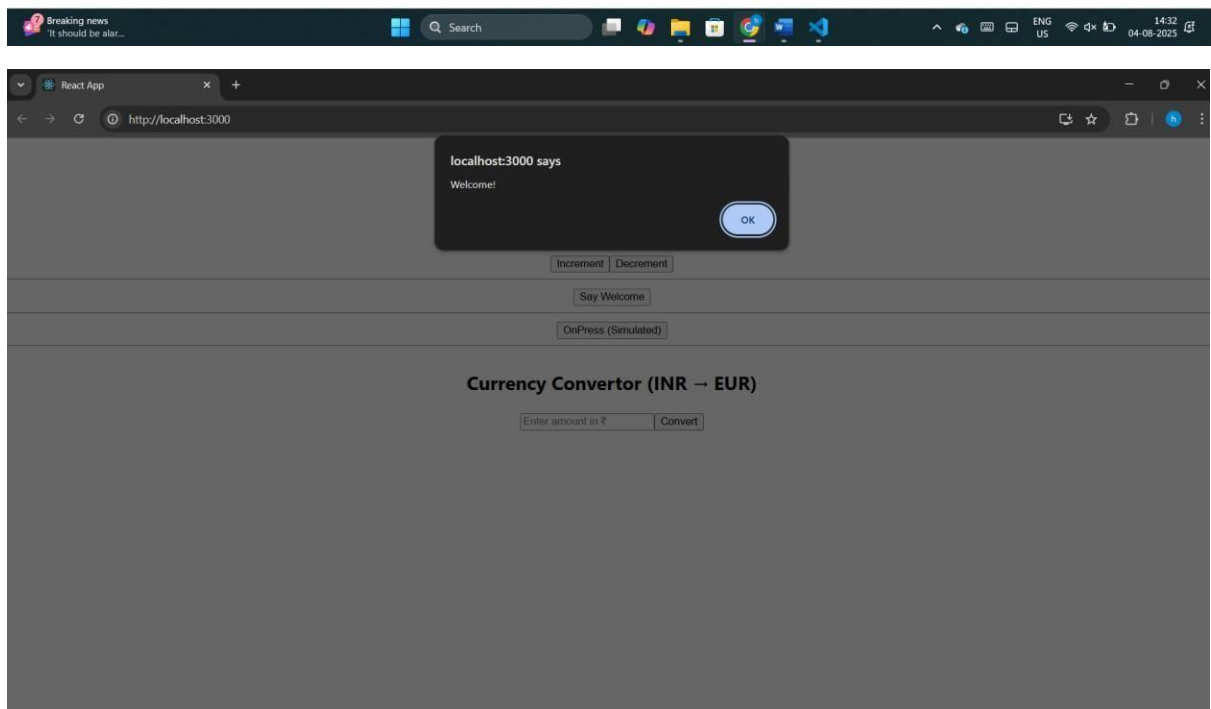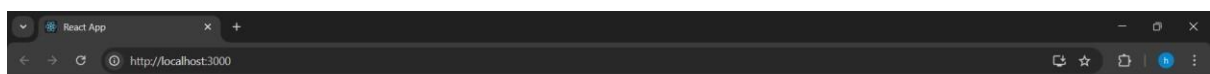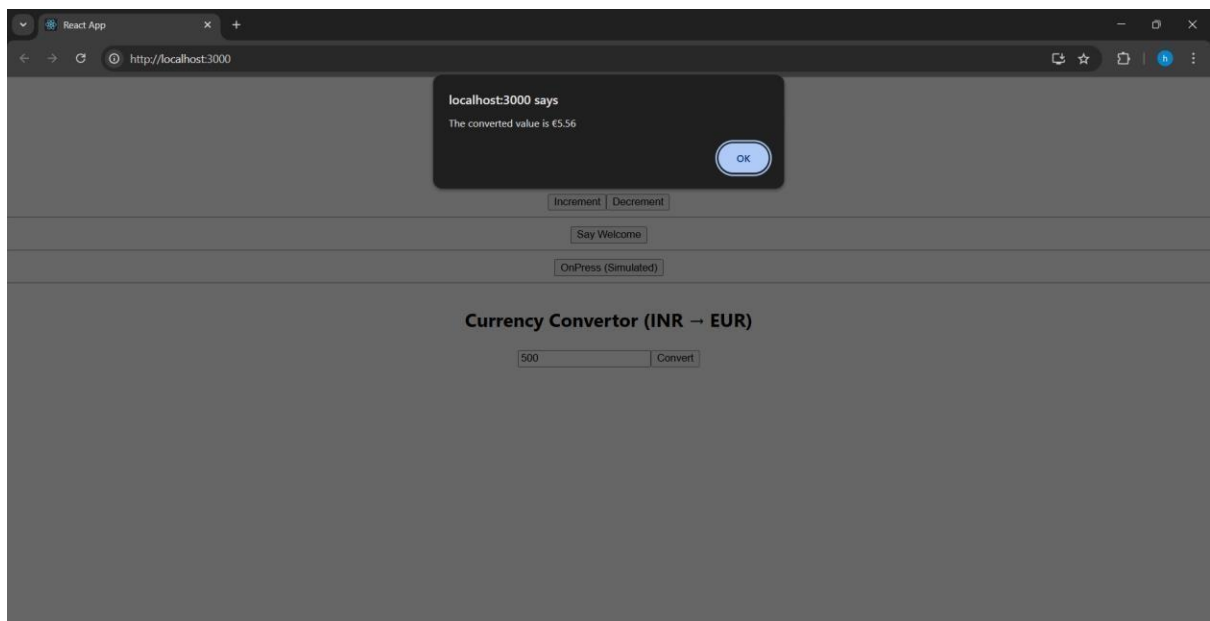Convention Feature React

  HTML

Syntax camelCase
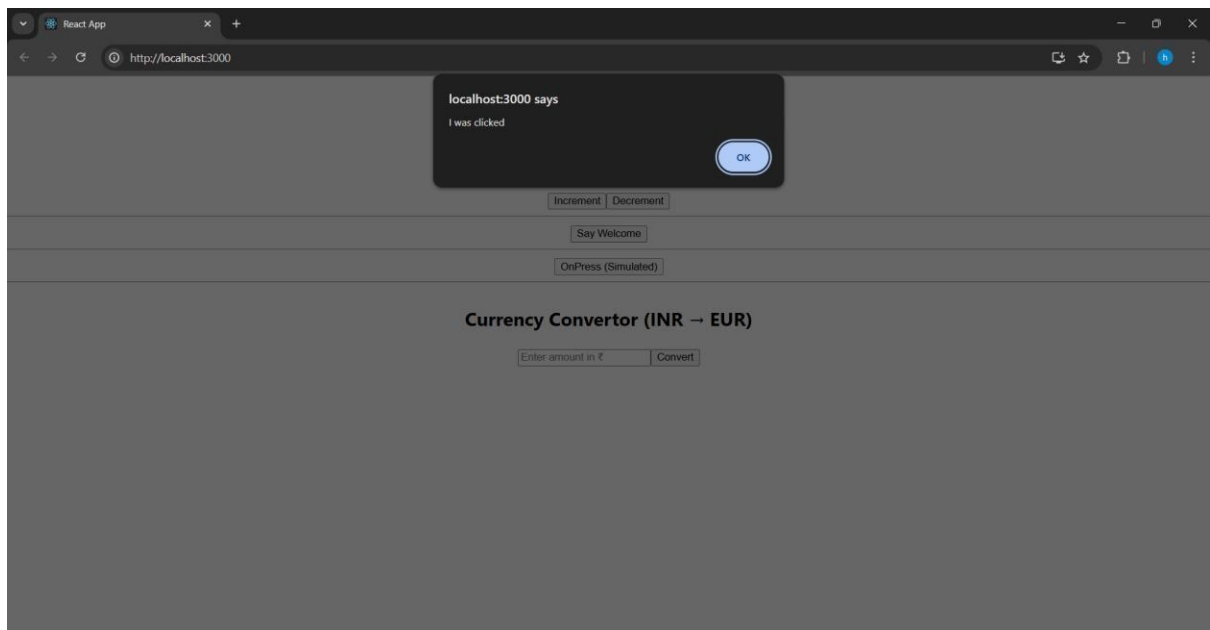
      lowercase Value

      JSX expression String

Output:

React Events Example

Counter: 0

Increment | Decrement

Say Welcome

OnPress (Simulated)

Currency Convertor (INR → EUR)

Enter amount in ₹ | Convert

---

localhost:3000 says

Welcome!

OK

Increment | Decrement

Say Welcome

OnPress (Simulated)

Currency Convertor (INR → EUR)

Enter amount in ₹ | Convert

localhost:3000 says

I was clicked

OK

Increment | Decrement

Say Welcome

OnPress (Simulated)

Currency Convertor (INR → EUR)

Enter amount in ₹ | Convert

---

localhost:3000 says

The converted value is €5.56

OK

Increment | Decrement

Say Welcome

OnPress (Simulated)

Currency Convertor (INR → EUR)

500 | Convert

React Events Example

Counter: 2

Increment | Decrement

Say Welcome

OnPress (Simulated)

Currency Convertor (INR → EUR)

500 | Convert

Equivalent in Euro: €5.56