**Week-7**

**ReactJS-HOL**

**11. ReactJS-HOL hands-on**

1. **Create “Increment” button to increase the value of the counter and “Decrement” button to decrease the value of the counter. The “Increase” button should invoke multiple methods.** 
   1. **To increment the value**
   2. **Say Hello followed by a static message.**
2. **Create a button “Say Welcome” which invokes the function which takes “welcome” as an argument.**
3. **Create a button which invokes synthetic event “OnPress” which display “I was clicked”**
4. **Create a “CurrencyConvertor” component which will convert the Indian Rupees to Euro when the Convert button is clicked. Handle the Click event of the button to invoke the handleSubmit event and handle the conversion of the euro to rupees.**

**Code:**

**App.js**

import './App.css';

import Counter from './components/Counter';

import CurrencyConverter from './components/CurrencyConverter';

import SyntheticEvent from './components/SyntheticEvent';

import Welcome from './components/Welcome';

function App() {

  return (

    <div className="app-container">

      <h1>React Event Examples</h1>

      <Counter />

      <SyntheticEvent />

      <Welcome />

      <CurrencyConverter />

    </div>

  );

}

export default App;

**App.css**

body {

  margin: 0;

  font-family: 'Inter', sans-serif;

  background-color: #f4f7f6;

  display: flex;

  justify-content: center;

  align-items: flex-start;

  min-height: 100vh;

  padding: 20px;

  box-sizing: border-box;

}

.app-container {

  background-color: #ffffff;

  padding: 30px;

  border-radius: 12px;

  box-shadow: 0 4px 20px rgba(0, 0, 0, 0.1);

  width: 100%;

  max-width: 600px;

  text-align: center;

}

.section {

  margin-bottom: 20px;

  padding: 10px;

  border: 1px solid #b9b7b7;

  border-radius: 8px;

  background-color: #fdfdfd;

}

.section h2 {

  color: #0a6dd0;

  margin-bottom: 15px;

}

button {

  padding: 12px 25px;

  border: none;

  border-radius: 8px;

  cursor: pointer;

  font-size: 1em;

  font-weight: bold;

  transition: transform 0.2s ease, box-shadow 0.2s ease;

  box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);

  background-color: rgb(206, 206, 206);

  margin: 2px;

}

button:hover {

  transform: translateY(-2px);

  box-shadow: 0 6px 10px rgba(0, 0, 0, 0.15);

}

form label {

  margin-bottom: 10px;

  font-weight: bold;

  color: #34495e;

}

input {

  width: 100%;

  padding: 10px;

  border: 1px solid #ccc;

  border-radius: 6px;

  font-size: 1em;

  box-sizing: border-box;

  margin-bottom: 10px;

}

**Counter.js**

import React, {useState} from "react";

function Counter() {

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

    const incrementCount = () => {

        setCount(prevCount => prevCount + 1);

    };

    const sayHello = () => {

        alert("Hello! Member 1");

    };

    const handleIncrementAndSayHello = () => {

        incrementCount();

        sayHello();

    };

    const decrementCount = () => {

        setCount(prevCount => prevCount - 1);

    };

    return (

        <div className="section">

            <h2>Counter: {count}</h2>

            <button onClick={handleIncrementAndSayHello}>increment</button>

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

        </div>

    );

}

export default Counter;

**SyntheticEvent.js**

import React from "react";

function SyntheticEvent() {

    const handleSyntheticClick = (event) => {

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

        alert("I was clicked");

    }

    return (

        <div className="section">

            <button onClick={handleSyntheticClick}> Click on me</button>

        </div>

    );

}

export default SyntheticEvent;

**Welcome.js**

import React from "react";

function Welcome(){

    const sayWelcome = (message) => {

        alert(message);

    }

    return (

        <div className="section">

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

        </div>

    );

}

export default Welcome;

**CurrencyConvertor.js**

import React, { useState } from 'react';

function CurrencyConverter() {

  const [amount, setAmount] = useState('');

  const handleAmountChange = (e) => {

    setAmount(e.target.value);

  };

  const handleSubmit = (e) => {

    e.preventDefault();

    const inrAmount = parseFloat(amount);

    if (!isNaN(inrAmount)) {

      const euroAmount = inrAmount \* 0.0099;

      alert(`Converting to Euro Amount is ${euroAmount.toFixed(2)}`);

    } else {

      alert("Please enter a valid amount.");

    }

  };

  return (

    <div className="section">

      <h2>Currency Convertor!!!</h2>

      <form onSubmit={handleSubmit}>

        <div>

          <label htmlFor="amount">Amount (INR):</label>

          <input

            type="number"

            id="amount"

            value={amount}

            onChange={handleAmountChange}

            placeholder="Enter amount"

          />

        </div>

        <div>

          <label htmlFor="currency">Convert To:</label>

          <input

            type="text"

            id="currency"

            value="Euro"

            readOnly

          />

        </div>

        <button type="submit">

          Convert

        </button>

      </form>

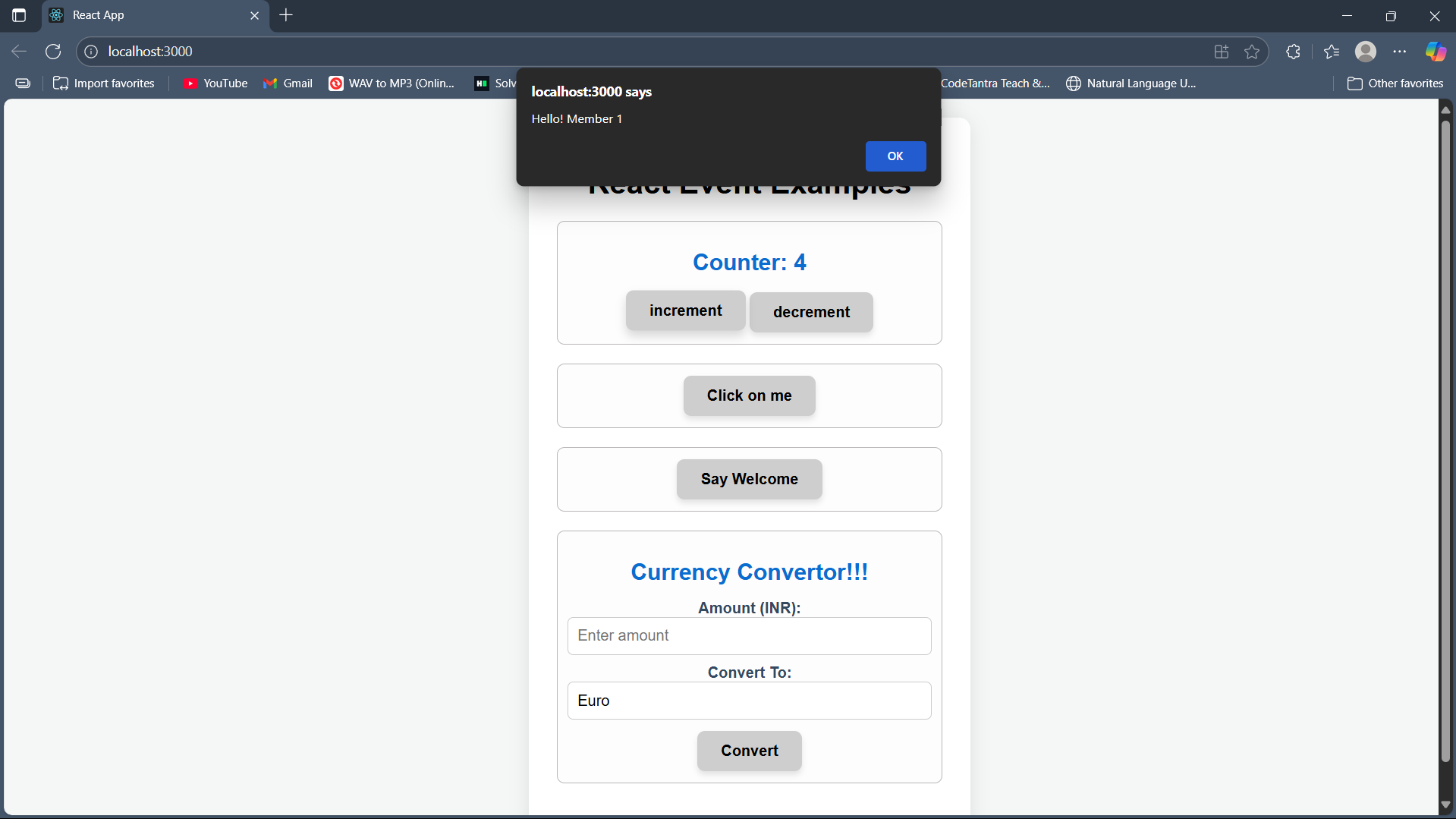
    </div>

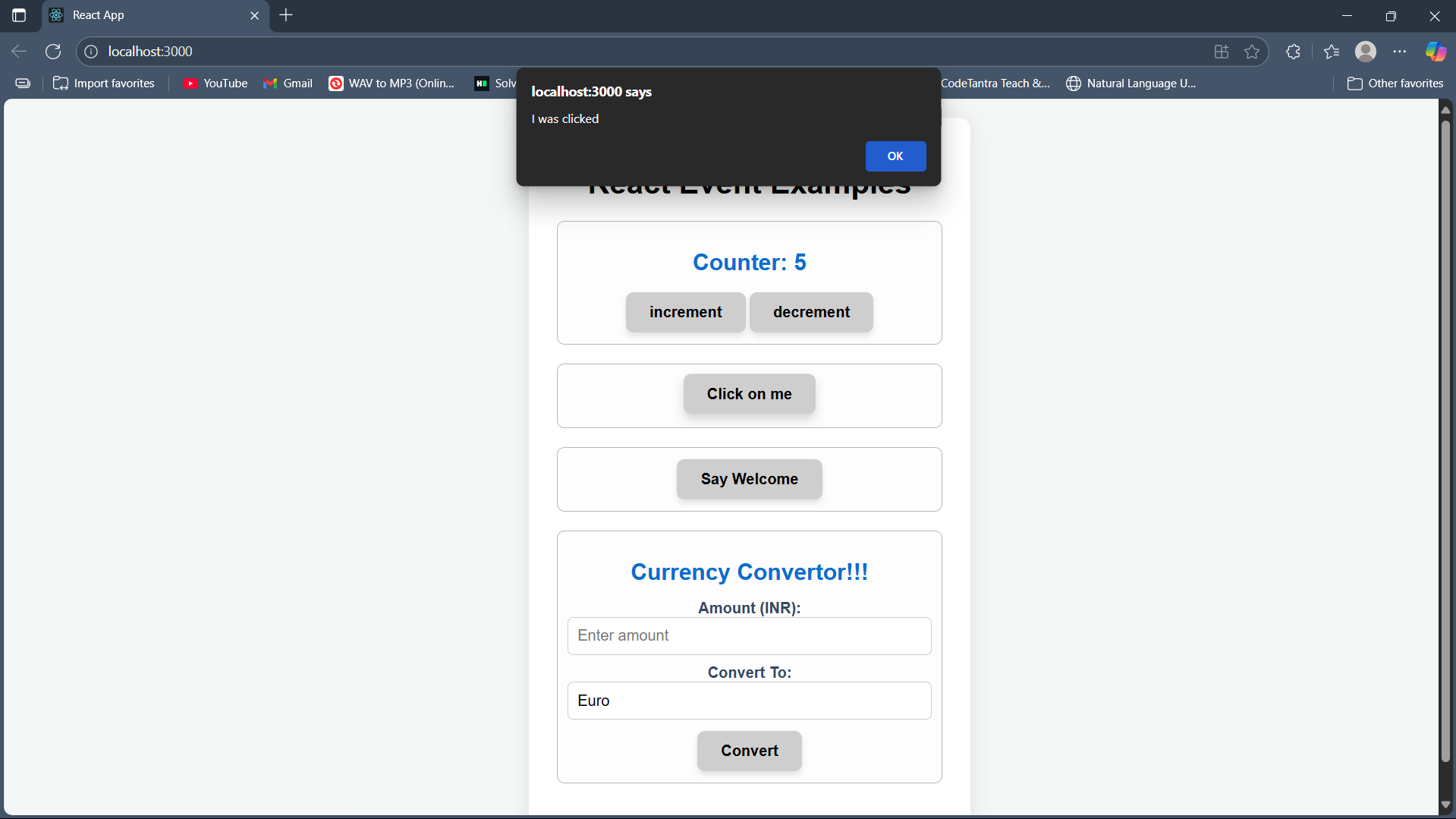
  );

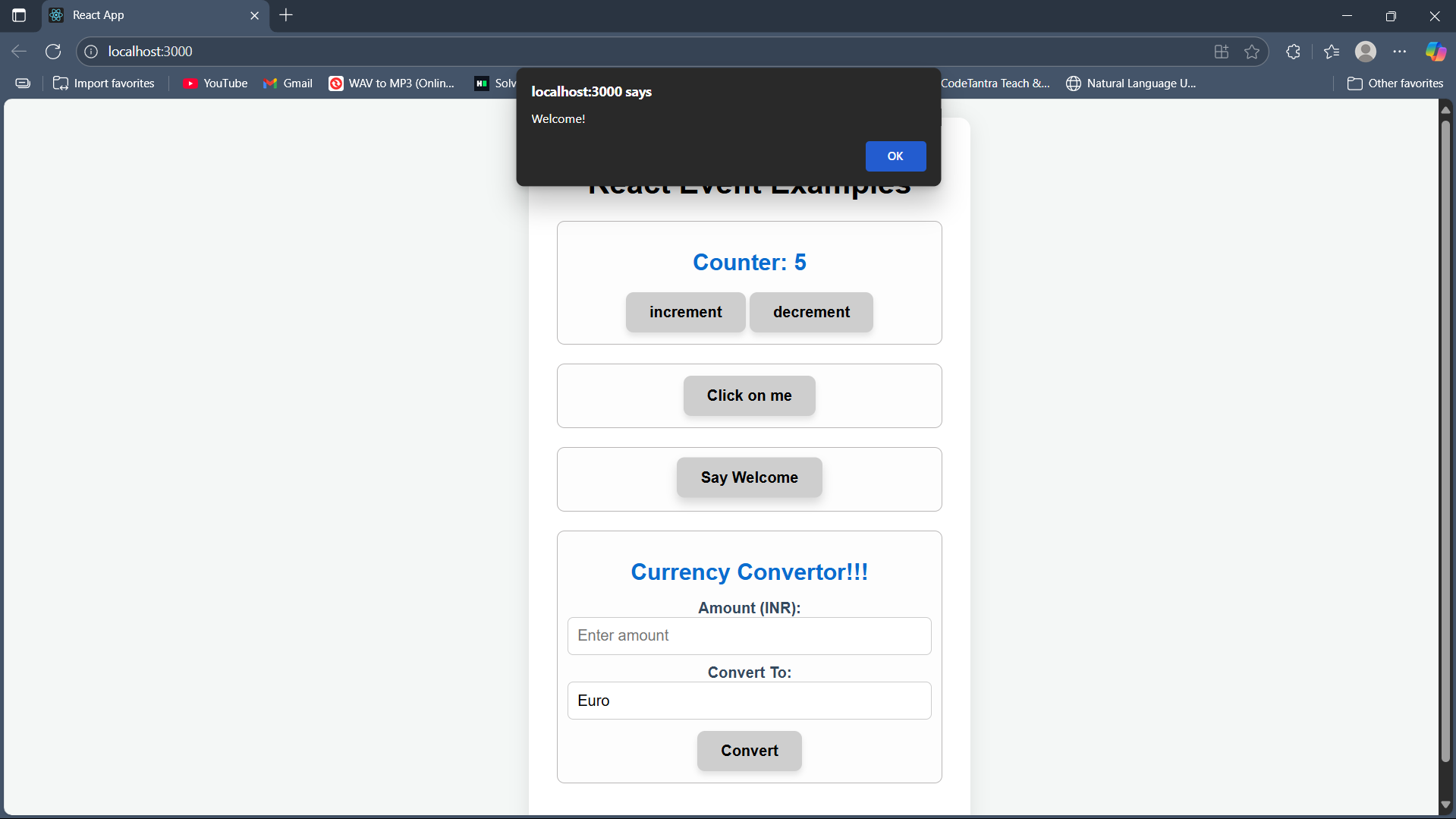
}

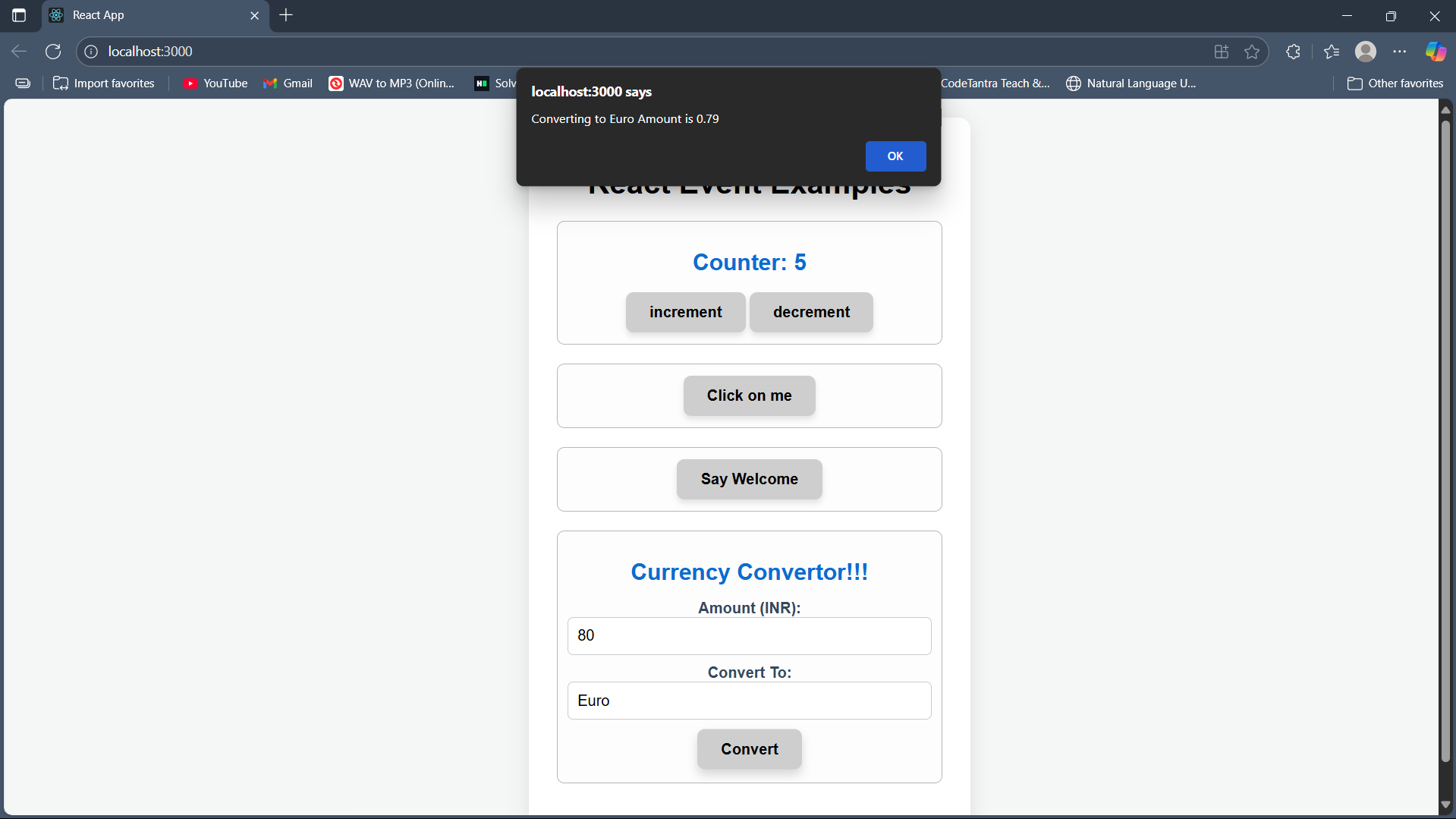
export default CurrencyConverter;

**Output:**

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****

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