**12. ReactJS-HOL**

**Main.jsx**

import { StrictMode } from 'react'

import { createRoot } from 'react-dom/client'

import './index.css'

import App from './App.jsx'

createRoot(document.getElementById('root')).render(

  <StrictMode>

    <App />

  </StrictMode>,

)

**App.jsx**

import React from 'react';

import Counter from './components/Counter.jsx';

import WelcomeButton from './components/WelcomeButton.jsx';

import SyntheticEventButton from './components/SyntheticEventButton.jsx';

import CurrencyConvertor from './components/CurrencyConvertor.jsx';

function App() {

  return (

    <div style={{ padding: "20px" }}>

      <h1>Event Examples App</h1>

      <Counter />

      <hr />

      <WelcomeButton />

      <hr />

      <SyntheticEventButton />

      <hr />

      <CurrencyConvertor />

    </div>

  );

}

export default App;

**Counter.jsx**

import React, { Component } from 'react';

class Counter extends Component {

  constructor(props) {

    super(props);

    this.state = { count: 0 };

  }

  increment = () => {

    this.setState({ count: this.state.count + 1 });

    this.sayHello();

  };

  decrement = () => {

    this.setState({ count: this.state.count - 1 });

  };

  sayHello = () => {

    console.log("Hello! Count incremented.");

  };

  render() {

    return (

      <div>

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

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

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

      </div>

    );

  }

}

export default Counter;

**CurrencyConverter.jsx**

import React, { useState } from 'react';

function CurrencyConvertor() {

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

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

  const conversionRate = 0.011; // Example conversion rate

  const handleSubmit = () => {

    if (!isNaN(rupees)) {

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

      setEuro(result);

    }

  };

  return (

    <div>

      <h3>Currency Convertor</h3>

      <input

        type="number"

        value={rupees}

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

        placeholder="Enter amount in INR"

      />

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

      {euro && <p>€ {euro}</p>}

    </div>

  );

}

export default CurrencyConvertor;

**SyntheticEventButton.jsx**

import React from 'react';

function SyntheticEventButton() {

  const handlePress = (e) => {

    alert("I was clicked");

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

  };

  return (

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

  );

}

export default SyntheticEventButton;

**WelcomeButton.jsx**

import React from 'react';

function WelcomeButton() {

  const sayMessage = (message) => {

    alert(`Message: ${message}`);

  };

  return (

    <button onClick={() => sayMessage("Welcome")}>

      Say Welcome

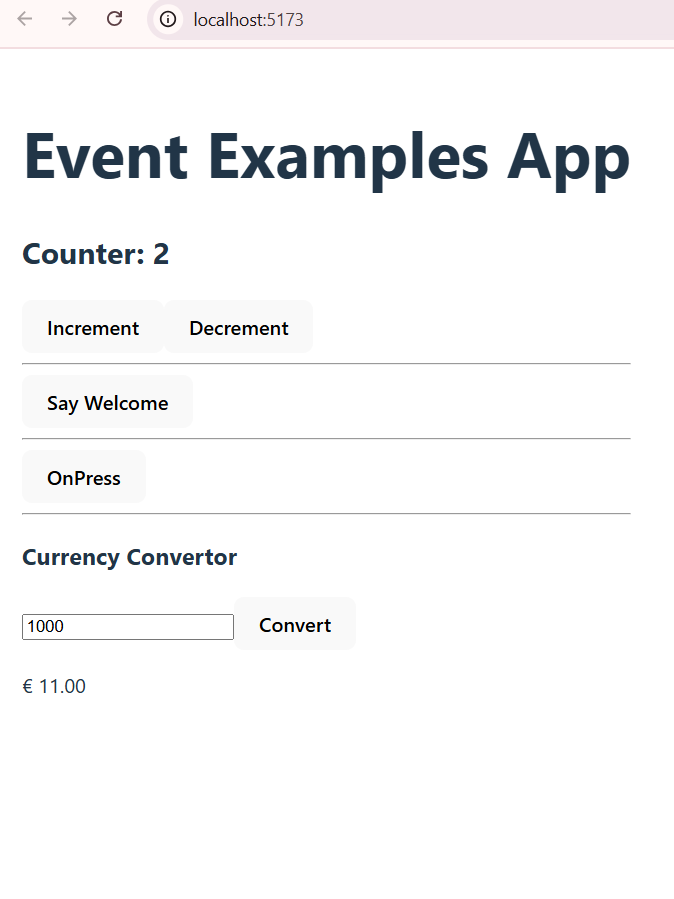
    </button>

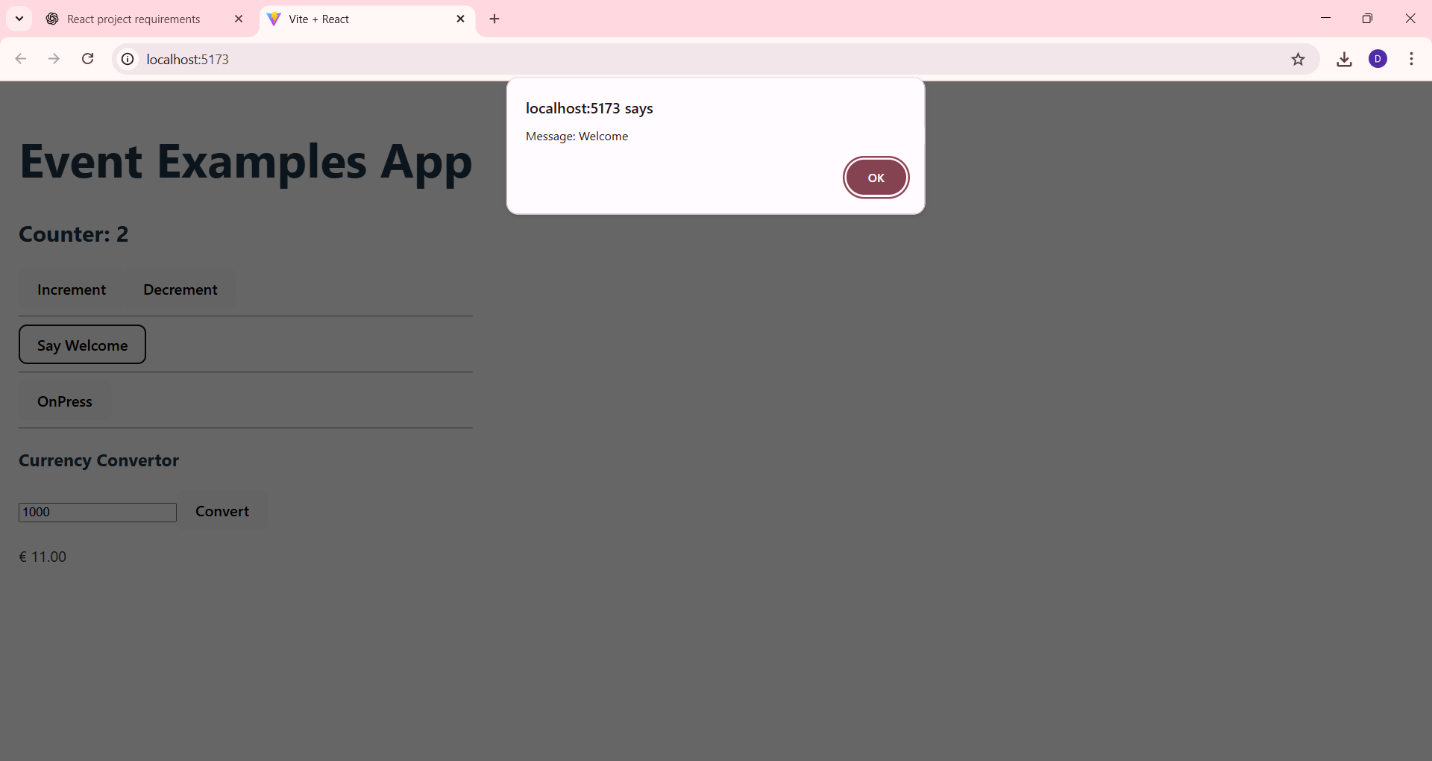
  );

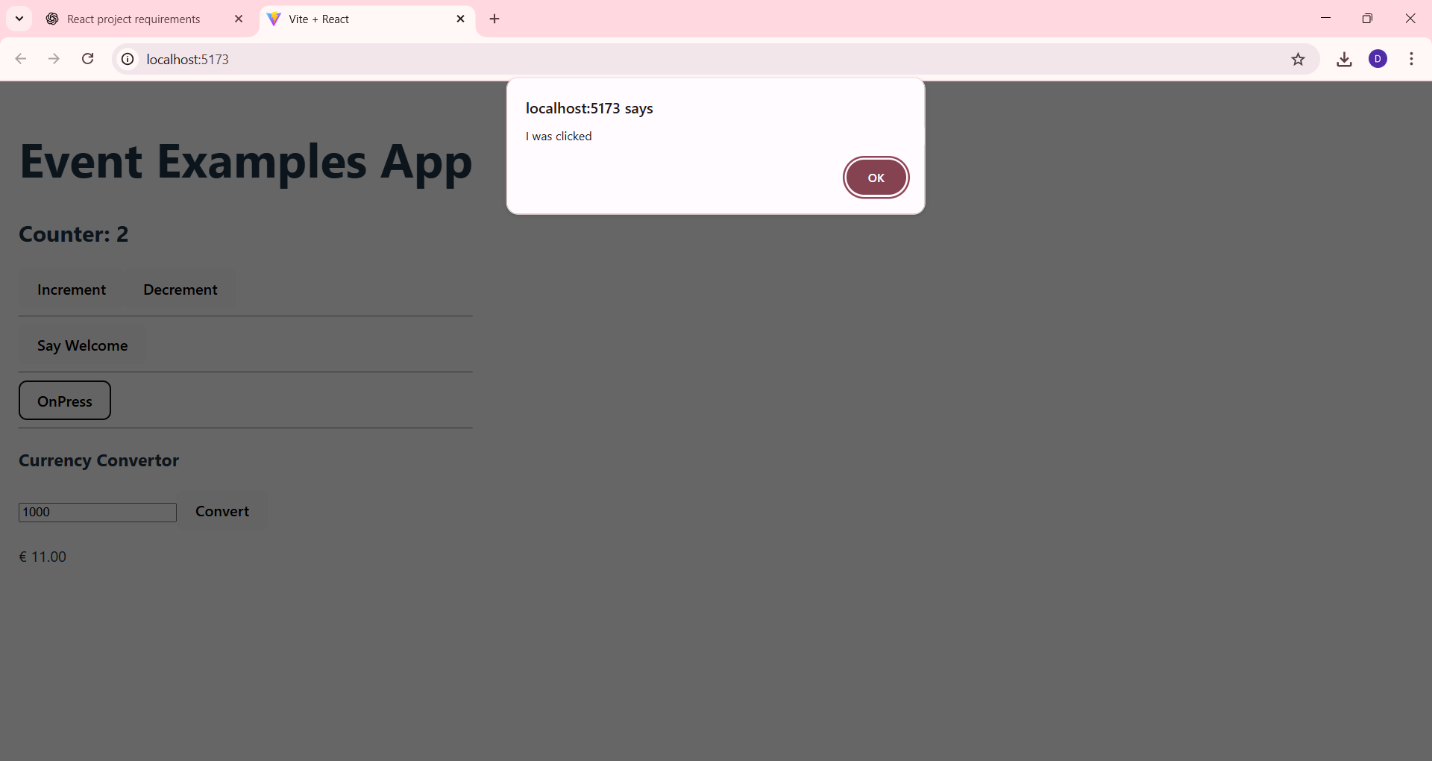
}

export default WelcomeButton;

**OUTPUT:**

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