# SINGLE PAGE APPLICATION FRAMEWORK-REACT

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11.ReactJS HOL

App.js

import React, { useState } from 'react';

import './App.css';

import CurrencyConvertor from './CurrencyConvertor';

function App() {

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

  const sayHello = () => {

    console.log("Hello! Static message: React is awesome 🚀");

  };

  const increment = () => {

    setCount(prev => prev + 1);

    sayHello();

  };

  const decrement = () => {

    setCount(prev => prev - 1);

  };

  const sayWelcome = (message) => {

    alert(message);

  };

  const handleClick = (event) => {

    alert("I was clicked");

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

  };

  return (

    <div className="App">

      <h1>React Event Handling Examples</h1>

      <h2>Counter: {count}</h2>

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

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

      <br /><br />

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

      <br /><br />

      <button onClick={handleClick}>Synthetic Event OnPress</button>

      <br /><br />

      <CurrencyConvertor />

    </div>

  );

}

export default App;

App.css

.App {

  font-family: sans-serif;

  padding: 20px;

}

button {

  margin: 5px;

  padding: 10px 15px;

  cursor: pointer;

}

input {

  padding: 5px;

  margin-right: 10px;

}

CurrencyConvertor.js

import React, { useState } from 'react';

function CurrencyConvertor() {

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

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

  const handleSubmit = () => {

    const result = (parseFloat(rupees) / 90).toFixed(2); // Approx conversion rate

    setEuros(result);

  };

  return (

    <div>

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

      <input

        type="number"

        value={rupees}

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

        placeholder="Enter amount in ₹"

      />

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

      {euros && <p>Converted Amount in Euros: €{euros}</p>}

    </div>

  );

}

export default CurrencyConvertor;

Index.js

import React from 'react';

import ReactDOM from 'react-dom/client';

import './index.css';

import App from './App';

const root = ReactDOM.createRoot(document.getElementById('root'));

root.render(<App />);

Output:

A screenshot of a computer

Description automatically generated

A screenshot of a computer

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