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React 11**

**Counter.js**

import React, { Component } from 'react';

class Counter extends Component {

  constructor(props) {

    super(props);

    this.state = {

      count: 0,

    };

  }

  incrementCount = () => {

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

  };

  sayHello = () => {

    alert('Hello followed by a static message.');

  };

  handleIncrement = () => {

    this.incrementCount();

    this.sayHello();

  };

  handleDecrement = () => {

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

  };

  render() {

    return (

      <div>

        <h2>Counter</h2>

        <p>Count: {this.state.count}</p>

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

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

      </div>

    );

  }

}

export default Counter;

**CurrencyConvertor.js**

import React, { Component } from 'react';

class CurrencyConvertor extends Component {

  constructor(props) {

    super(props);

    this.state = {

      rupees: 1,

      euros: 0,

    };

    this.exchangeRate = 0.011; // 1 INR = 0.011 EUR

  }

  handleRupeeChange = (event) => {

    this.setState({ rupees: event.target.value });

  };

  handleSubmit = (event) => {

    event.preventDefault();

    const convertedEuros = this.state.rupees \* this.exchangeRate;

    this.setState({ euros: convertedEuros.toFixed(2) });

  };

  render() {

    return (

      <div>

        <h2>CurrencyConvertor [cite: 24]</h2>

        <form onSubmit={this.handleSubmit}>

          <div>

            <label>Indian Rupees (INR): </label>

            <input

              type="number"

              value={this.state.rupees}

              onChange={this.handleRupeeChange}

            />

          </div>

          <button type="submit">Convert</button>

        </form>

        <h3>Converted Amount in Euro (€): {this.state.euros}</h3>

      </div>

    );

  }

}

export default CurrencyConvertor;

**SyntheticEvent.js**

import React from 'react';

function SyntheticEvent() {

  const handlePress = (e) => {

    console.log(e);

    alert('I was clicked'); // [cite: 23]

  };

  return (

    <div>

      <h2>Synthetic Event Example</h2>

      {/\* The onClick event in React is a synthetic event [cite: 23] \*/}

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

    </div>

  );

}

export default SyntheticEvent;

**Welcome.js**

import React from 'react';

function Welcome() {

  const sayMessage = (message) => {

    alert(message);

  };

  return (

    <div>

      <h2>Welcome Component</h2>

      <button onClick={() => sayMessage('welcome')}>Say Welcome</button>

    </div>

  );

}

export default Welcome;

**App.js**

import React, { useState } from 'react';

import './App.css';

function App() {

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

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

  const [currency, setCurrency] = useState('');

  const [message, setMessage] = useState('');

const increment = () => {

    setCount(prev => prev + 1);

    sayHello();

  };

const decrement = () => {

    setCount(prev => prev - 1);

  };

const sayHello = () => {

    alert('Hello! Counter incremented');

  };

 const sayWelcome = (msg) => {

    alert(msg);

  };

const handlePress = (e) => {

    alert("I was clicked");

  };

 const handleSubmit = (e) => {

    e.preventDefault();

    const result = (parseFloat(amount) / 90).toFixed(2);

     alert("Converting to euro amount is " + result);

     setCurrency("Euro")

  };

 return (

    <div className="App">

      <h2>Counter: {count}</h2>

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

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

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

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

      <h2 style={{ color: "green" }}>Currency Convertor!!!</h2>

      <form onSubmit={handleSubmit}>

        <label>Amount:</label><br />

        <input

          type="number"

          value={amount}

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

        /><br />

        <label>Currency:</label><br />

        <input type="text" value={currency} readOnly /><br /><br />

        <button type="submit">Submit</button>

      </form>

    </div>

  );

}

export default App;

**App.css**

.App {

  margin: 30px;

  font-family: Arial, sans-serif;

}

.App-logo {

  height: 40vmin;

  pointer-events: none;

}

@media (prefers-reduced-motion: no-preference) {

  .App-logo {

    animation: App-logo-spin infinite 20s linear;

  }

}

.App-header {

  background-color: #282c34;

  min-height: 100vh;

  display: flex;

  flex-direction: column;

  align-items: center;

  justify-content: center;

  font-size: calc(10px + 2vmin);

  color: white;

}









