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**Lab 11: eventexamplesapp – React Event Handling and Synthetic Events**

1. **Create the React app**:

npx create-react-app eventexamplesapp

1. **Navigate into the app folder**:

cd eventexamplesapp

1. **Start the development server**:

npm start

1. **Create a new file**:  
   src/CurrencyConvertor.js

**src/App.js**

import React, { Component } from 'react';

import CurrencyConvertor from './CurrencyConvertor';

class App extends Component {

constructor() {

super();

this.state = {

count: 0,

message: ""

};

}

increment = () => {

this.setState(prevState => ({ count: prevState.count + 1 }));

this.sayHello();

};

sayHello = () => {

this.setState({ message: "Hello! This is a static greeting." });

};

decrement = () => {

this.setState(prevState => ({ count: prevState.count - 1 }));

};

sayWelcome = (msg) => {

alert(msg);

};

handleClick = () => {

alert("I was clicked");

};

render() {

return (

<div style={{ padding: '20px', fontFamily: 'Arial' }}>

<h1>React Events Lab</h1>

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

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

<button onClick={this.decrement} style={{ marginLeft: '10px' }}>Decrement</button>

<p>{this.state.message}</p>

<hr />

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

<hr />

<button onClick={this.handleClick}>Synthetic Event: Click Me</button>

<hr />

<CurrencyConvertor />

</div>

);

}

}

export default App;

**src/CurrencyConvertor.js**

import React, { useState } from 'react';

const CurrencyConvertor = () => {

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

const [result, setResult] = useState('');

const [mode, setMode] = useState('toEuro'); // 'toEuro' or 'toINR'

const handleSubmit = (e) => {

e.preventDefault();

const num = parseFloat(amount);

if (isNaN(num)) {

setResult("Please enter a valid number");

return;

}

if (mode === 'toEuro') {

setResult(`€ ${(num / 90).toFixed(2)}`);

} else {

setResult(`₹ ${(num \* 90).toFixed(2)}`);

}

};

return (

<div style={{ marginTop: '30px' }}>

<h2>Currency Convertor</h2>

<label>

Amount:

<input

type="number"

value={amount}

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

style={{ margin: '10px' }}

/>

</label>

<div>

<label>

<input

type="radio"

value="toEuro"

checked={mode === 'toEuro'}

onChange={() => setMode('toEuro')}

/>

Rupees to Euro

</label>

<label style={{ marginLeft: '10px' }}>

<input

type="radio"

value="toINR"

checked={mode === 'toINR'}

onChange={() => setMode('toINR')}

/>

Euro to Rupees

</label>

</div>

<br />

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

<p><strong>Result:</strong> {result}</p>

</div>

);

};

export default CurrencyConvertor;

**Output:**



