**11.ReactJS-HOL**

**React Application : eventexamplesapp**

src/App.js

import React, { Component } from 'react';

import './App.css';

class App extends Component {

  constructor(props) {

    super(props);

    this.state = {

      counter: 0,

      message: '',

      rupees: '',

      euro: ''

    };

    this.incrementCounter = this.incrementCounter.bind(this);

    this.sayHello = this.sayHello.bind(this);

    this.handleConvert = this.handleConvert.bind(this);

  }

  incrementCounter() {

    this.setState(prevState => ({

      counter: prevState.counter + 1

    }));

    this.sayHello();

  }

  decrementCounter = () => {

    this.setState(prevState => ({

      counter: prevState.counter - 1

    }));

  };

  sayHello() {

    this.setState({ message: '✅ Counter updated successfully!' });

  }

  sayWelcome = (msg) => {

    alert(msg);

  };

  handleClick = () => {

    alert("🔔 I was clicked (Synthetic Event)");

  };

  handleInputChange = (e) => {

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

  };

  handleConvert(e) {

    e.preventDefault();

    const rupees = parseFloat(this.state.rupees);

    const euroRate = 0.011;

    const euro = rupees \* euroRate;

    this.setState({ euro: euro.toFixed(2) });

  }

  render() {

    return (

      <div className="App">

        <h1>💡 React Events Playground</h1>

        <p className="subtitle">Explore event handling and state management</p>

        <div className="section">

          <h2>🔢 Counter</h2>

          <div className="counter-box">

            <h3>{this.state.counter}</h3>

            <button onClick={this.incrementCounter}>➕ Increment</button>

            <button onClick={this.decrementCounter}>➖ Decrement</button>

            <p className="message">{this.state.message}</p>

          </div>

        </div>

        <div className="section">

          <h2>🎤 Welcome Message</h2>

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

        </div>

        <div className="section">

          <h2>🖱️ Synthetic Event</h2>

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

        </div>

        <div className="section">

          <h2>💱 Currency Converter</h2>

          <div className="card">

            <form onSubmit={this.handleConvert}>

              <input

                type="number"

                value={this.state.rupees}

                onChange={this.handleInputChange}

                placeholder="Enter amount in ₹ INR"

              />

              <button type="submit">Convert to € Euro</button>

            </form>

            {this.state.euro && (

              <p className="converted">Converted Amount: <strong>€{this.state.euro}</strong></p>

            )}

          </div>

        </div>

      </div>

    );

  }

}

export default App;

**src/App.css**

body {

  margin: 0;

  font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

  background-color: #f4f7fb;

  color: #333;

}

.App {

  padding: 40px;

  max-width: 800px;

  margin: auto;

}

h1 {

  color: #2a2a2a;

  font-size: 2.5rem;

  text-align: center;

}

.subtitle {

  text-align: center;

  color: #666;

  margin-bottom: 40px;

}

.section {

  margin-bottom: 40px;

}

.counter-box {

  background: #fff;

  padding: 20px;

  border-radius: 12px;

  box-shadow: 0 4px 12px rgba(0, 0, 0, 0.05);

  display: inline-block;

  text-align: center;

}

button {

  margin: 10px;

  padding: 10px 16px;

  font-size: 16px;

  border: none;

  border-radius: 8px;

  background-color: #2b6cb0;

  color: white;

  cursor: pointer;

  transition: background 0.2s ease;

}

button:hover {

  background-color: #1a4e8a;

}

input {

  padding: 10px;

  font-size: 16px;

  margin-right: 10px;

  border-radius: 6px;

  border: 1px solid #ccc;

}

.card {

  background-color: white;

  padding: 20px;

  border-radius: 10px;

  max-width: 500px;

  margin: auto;

  box-shadow: 0 4px 14px rgba(0, 0, 0, 0.08);

}

.message {

  color: green;

  margin-top: 10px;

}

.converted {

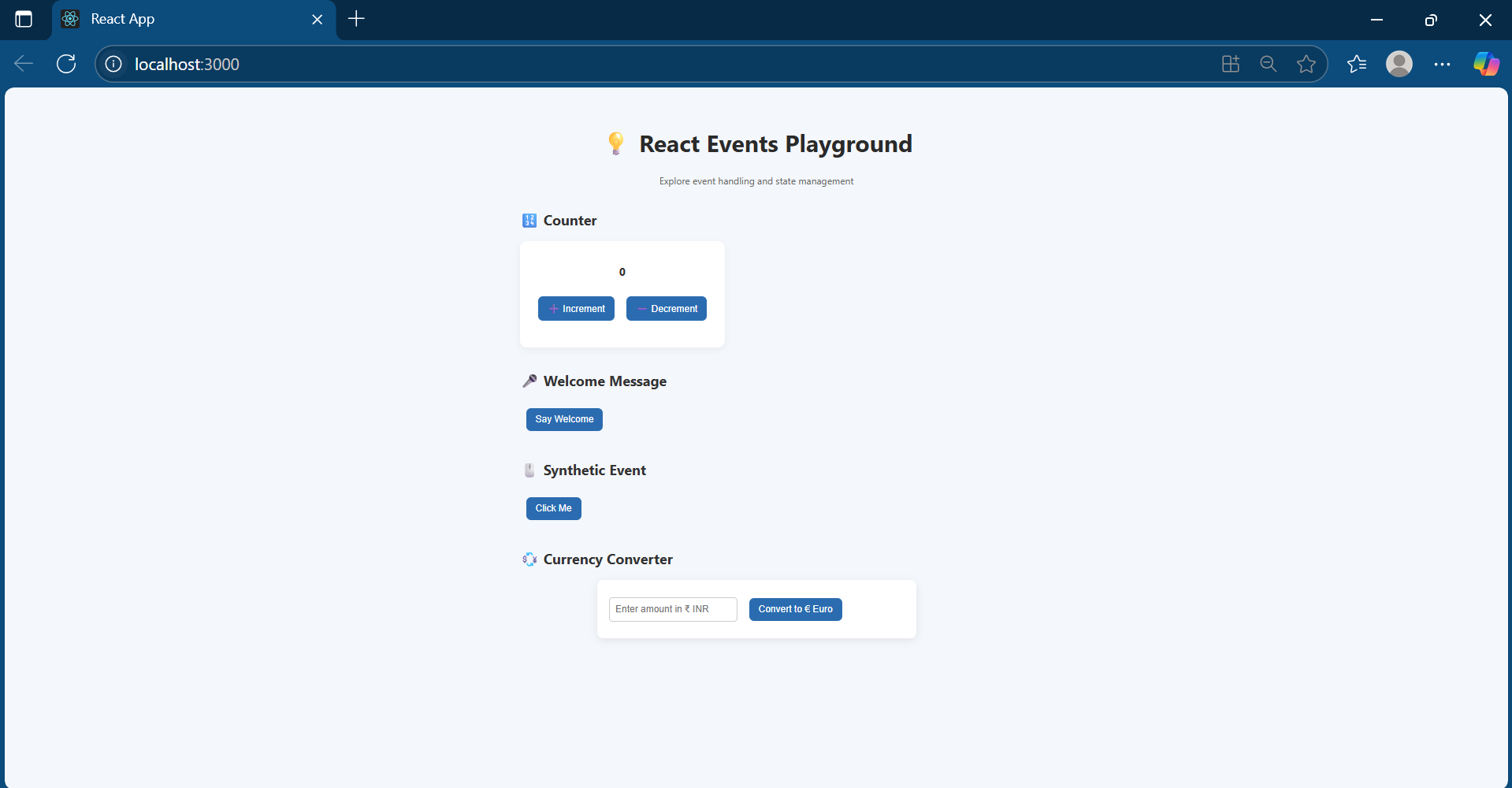
  margin-top: 15px;

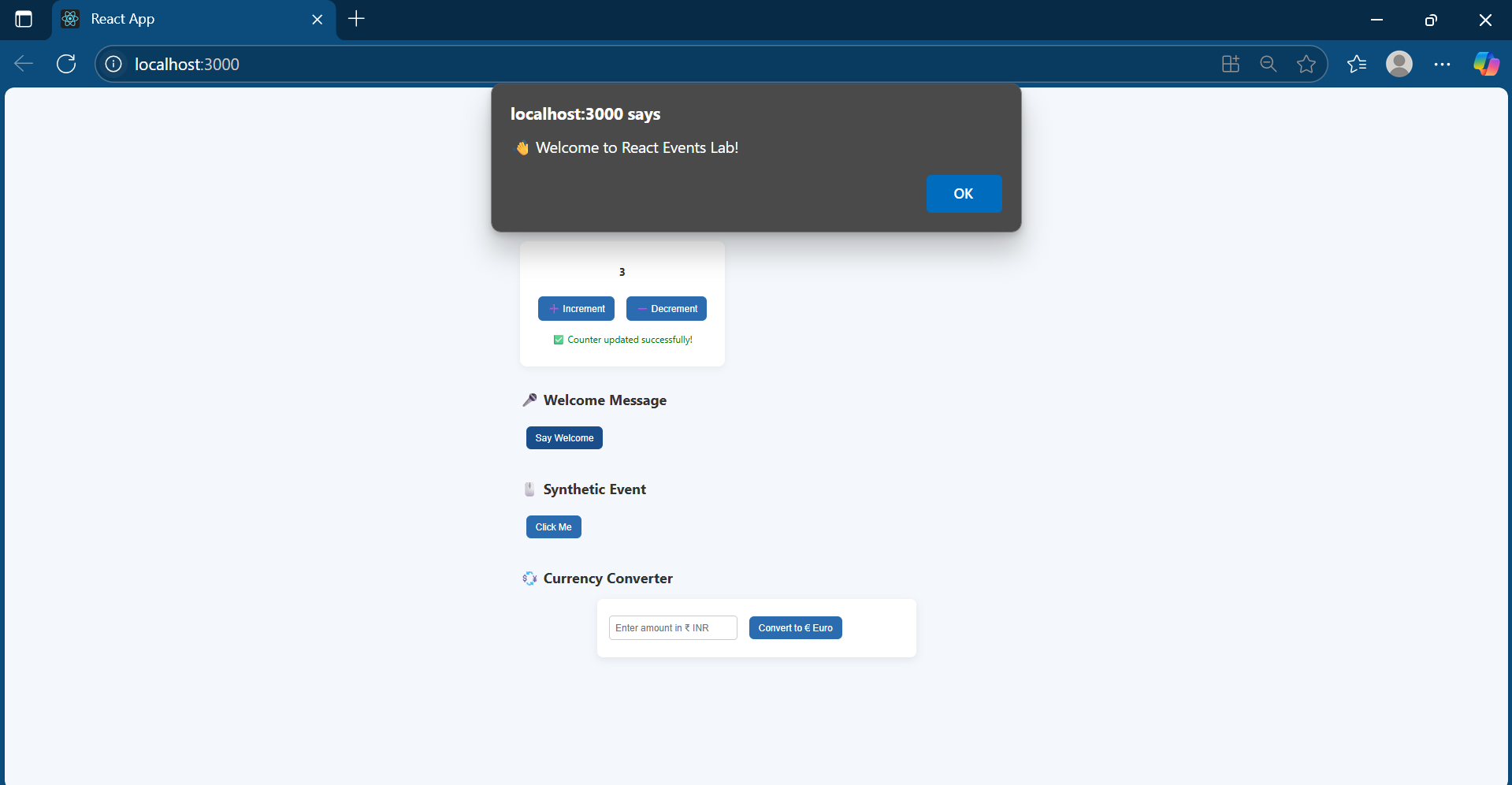
  font-size: 18px;

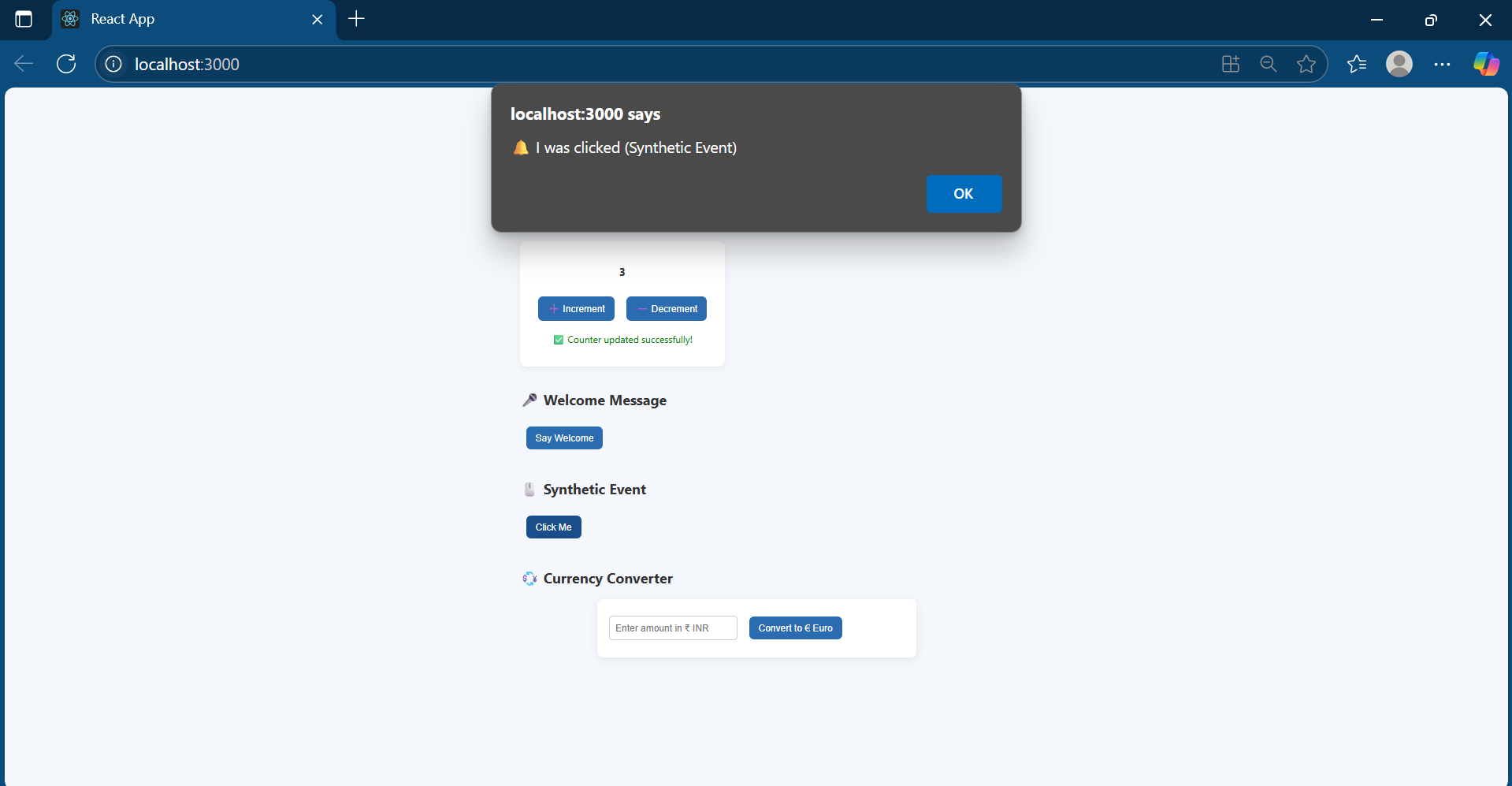
  color: #2a9d8f;

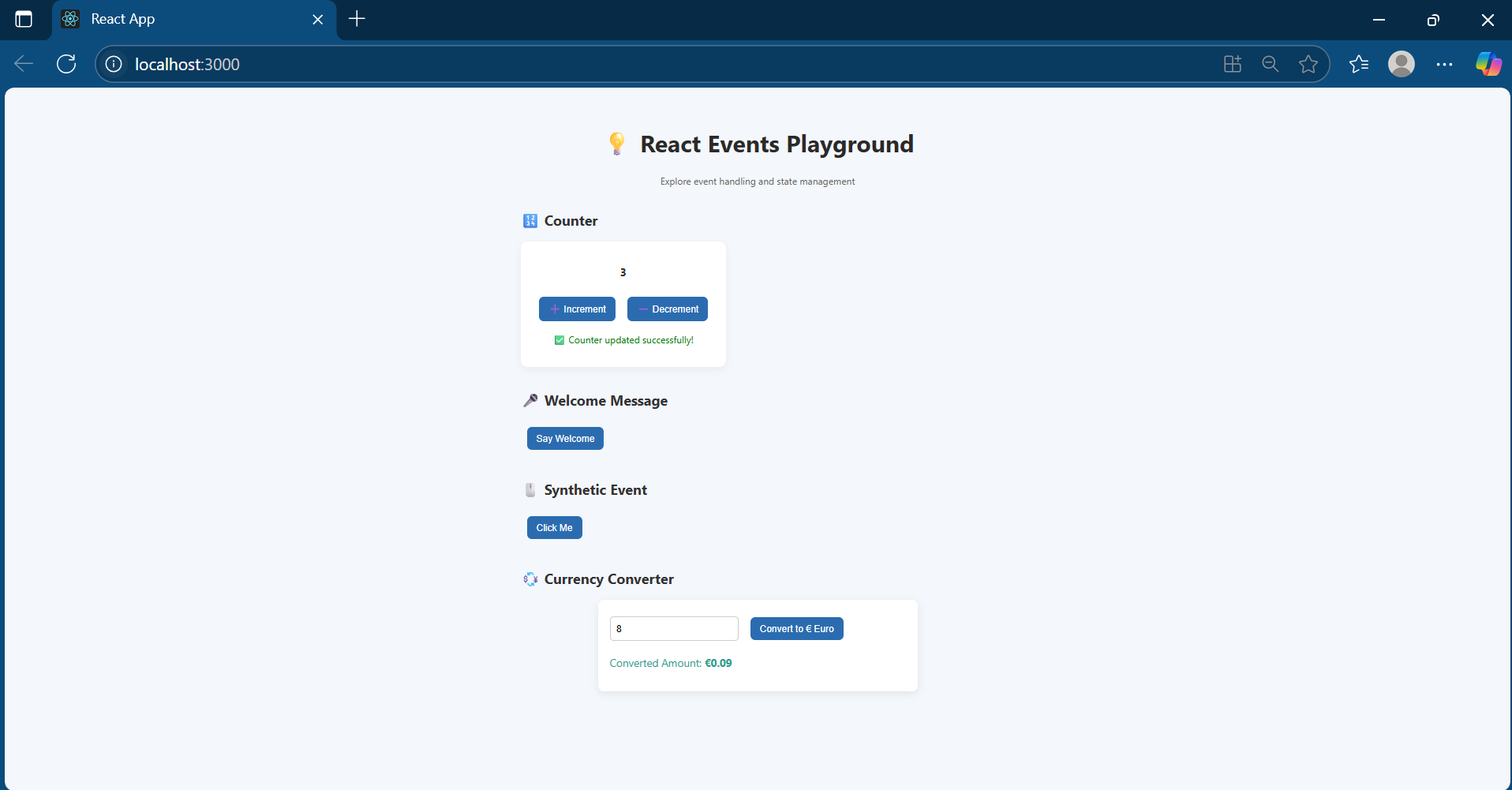
}

**Output:**

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