React-11

**Project Title: EventExamplesApp – React Application for Handling Events**

**Objectives**

* Explain the concept of **React events**.
* Describe the role of **event handlers** in React.
* Define what constitutes a **Synthetic Event**.
* Understand **React’s event naming conventions**.

**Learning Outcomes**

Upon completing this hands-on lab, the learner will be able to:

* Implement event handling in React applications.
* Utilize the this keyword appropriately in event-driven methods.
* Work with React's **synthetic events**.
* Trigger and manage functions via button interactions.

**Prerequisites**

To carry out the exercises, the following tools are required:

* Node.js
* NPM
* Visual Studio Code

**Estimated Time**

* Approximately 90 minutes.

**Implementation Instructions**

1. **Project Setup**
   * Create a new React application named eventexamplesapp.
2. **Counter with Multiple Methods**
   * Implement an **“Increment”** button:
     + Increases the counter value.
     + Executes multiple methods, including one that displays a greeting (e.g., “Hello from...”).
   * Implement a **“Decrement”** button:
     + Decreases the counter value.
3. **Welcome Button**
   * Add a button labeled **“Say Welcome”**:
     + Invokes a function accepting **“welcome”** as a parameter.
4. **Synthetic Event Example**
   * Create a button that listens for a synthetic event (e.g., onClick named as OnPress) that displays:
     + **“I was clicked”** on being triggered.
5. **Currency Converter**
   * Create a new component called CurrencyConvertor.
   * Provide functionality to convert **Indian Rupees to Euro**:
     + On clicking the **“Convert”** button, trigger a handleSubmit event handler.
     + Perform the conversion logic within this event.