

SWT 22022: Practical for Internet Application Development
Department of Information & Communication Technology
Faculty of Technology
South Eastern University of Sri Lanka

Lab Sheet No: 13

Date: - 2026.01.02

Title: React Components

Aims:

- Understand the concept of React components
- Create and use React components
- Pass data between components
- Update state changes

Tasks:

- Creating Components
- Using Components
- Image Inserting Passing props between components
- Updating state and re-rendering
- Building a simple form

Activities

1. Create a basic component to display a message
 - Create a new React project named **Test2**.
 - Create a new component named **Message**.
 - Define a functional component with a render method that returns a JSX element displaying the message.
 - Import the component into your **App.js** file and render it.

2. Pass data from parent component to child component
 - Create new component named **Greeting**
 - Make the Greeting Component accept a **name** prop.
 - In **App.js**, pass the **name** prop to the **Greeting** component.
 - Render the **name** prop within the **Greeting** component.
3. Update the state of a component and trigger a re-render
 - Create a new component name **Counter**.
 - Initialize the state with a **count** property.
 - Create functions to increment and decrement the **count**.
 - Update the state using the **useState**.
 - Render the current **count** value.
4. Create a form with input fields and a submit button
 - Create a new component named **Form**.
 - Use controlled components to manage input values.
 - Handle form submission using the **onSubmit** event handler.
 - When submitting data display success message in console.

Discussion:

- **useState** in React