<u>**Report Day: 7.5**</u>

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Task:

React Conditional Styling & Component Libraries (Tailwind, Bootstrap)

1. Introduction

In modern React development, styling plays a key role in building visually appealing and user-friendly applications. Developers often use:

- Conditional styling to change the look of components based on state or props.

- Component libraries like Tailwind CSS and Bootstrap to speed up development with ready-to-use styles and components.

2. Conditional Styling in React

Conditional styling means applying styles dynamically based on certain conditions (like isActive, isError, theme, etc.)

3. Component Libraries in React

Component libraries offer **pre-built styles**, **UI elements**, and **utility classes** that make development faster and consistent.

4. Tailwind CSS

 What is Tailwind?

Tailwind is a **utility-first CSS framework** that lets you style components **directly in the class attribute**.

Example:

```
1 v  <button className="bg-blue-500 hover:bg-blue-700 text-white font-bold py-2 px-4 rounded">
2        Submit
3    </button>
4
```

Benefits:

- Utility-first (no need for separate CSS files)

- Easily customizable themes

- Great community and plugins

- Responsive design with built-in breakpoints

5. Bootstrap with React

 What is Bootstrap?

Bootstrap is a popular CSS framework offering ready-made UI components like modals, navbars, alerts, buttons, and forms.

```jsx
<button className="btn btn-primary">
  Submit
</button>
```

Conclusion

Conditional styling allows React apps to respond dynamically to user actions or state changes. **Component libraries** like **Tailwind CSS** and **Bootstrap** empower developers to **build stylish, responsive UIs quickly**.

Choosing the right styling method or library depends on our **project size**, **design flexibility**, and **development speed**.