

Day 3 of 60: My React Learning Journey!

1. Styling React Component

Styling React components refers to the methods and techniques used to apply CSS to your React components to define their visual appearance. React provides several ways to style components, ranging from traditional CSS to more modern and modular approaches.

2. Common Methods to Style React Components:

- a. **Inline Style:-** Inline styles in React refer to the practice of applying CSS directly to elements within the JSX syntax using a JavaScript object. This method allows us to define the styles directly where they are used, providing a quick and localized way to apply specific styles to elements.

For eg:-

```
<div style={{
  color: "blue",
  fontSize: "20px",
  padding: "10px"
}}>
  <h1>This is inline style component</h1>
</div>
```

- b. **External Style:-** External styles in React are CSS styles defined in separate files and then imported into our components. This method promotes a clean separation between our styling and our component logic, making our code more maintainable and scalable. Whether we use plain CSS, CSS Modules, Sass, or styled-components, external styles help us manage and organize our styling code effectively.
- c. **CSS modules :-** CSS Modules are a way to scope CSS to individual components in a React application, avoiding the global scope problem of traditional CSS. This approach ensures that styles are applied only to the specific component they are intended for, preventing unintended style conflicts.

For eg:-

1. **Create a CSS Module File:-** Create a CSS file with the '.module.css' extension.

```
MyComponent.module.css
.myComponent {
  color: blue;
  font-size: 20px;
```

```
padding: 10px;  
border: 1px solid black;  
}
```

2. Create a React Component:- Import the CSS module and apply the styles to the component.

```
MyComponent.js  
import React from 'react';  
import styles from './MyComponent.module.css';  
function MyComponent() {  
  return (  
    <div className={styles.myComponent}>  
      This is a styled component with CSS Modules!  
    </div>  
  );  
}  
export default MyComponent;
```

Explanation:

1. CSS Module File: The styles are defined in 'MyComponent.module.css', using a class named myComponent.
2. Import Styles: The CSS module is imported in the React component using "import styles from './MyComponent.module.css'".
3. Apply Styles: The className attribute is set to {styles.myComponents}, applying the scoped styles from the CSS module to the div element.

Example of project Structure:

```
src/  
├── components/  
│   ├── MyComponent.js  
│   └── MyComponent.module.css  
└── index.js
```

