

Topic : useState Hook...

Assignment: Light/Dark Mode Toggle

Scenario:

You are tasked with building a simple Light/Dark Mode Toggle application.

The application will allow users to switch between light mode and dark mode, and the background color of the application will change accordingly.

This assignment will help you practice using the useState hook in React with TypeScript, focusing on event handling and conditional rendering.

Requirements:

➤ Project Setup:

- Create a new React project with a TypeScript template and name it ThemeToggleApp.

➤ Component Structure:

- Create a ThemeToggle Component:
- This component should display a button that allows the user to toggle between light and dark modes.
- When in light mode, the background color should be white, and the text color should be black.
- When in dark mode, the background color should be black, and the text color should be white.
- Use the useState hook to manage the current theme.

Tasks:

➤ Using useState:

- Implement the ThemeToggle component to use the useState hook for managing the current theme (light or dark).

➤ Event Handling:

- Implement an event handler for the button click to toggle between light and dark modes.

➤ Conditional Rendering:

- Use conditional rendering to apply the appropriate styles based on the current theme.

➤ Expected Outcome:

- A simple theme toggle application where users can:
 - Click a button to switch between light and dark modes.
 - See the background and text colors change based on the selected theme.
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