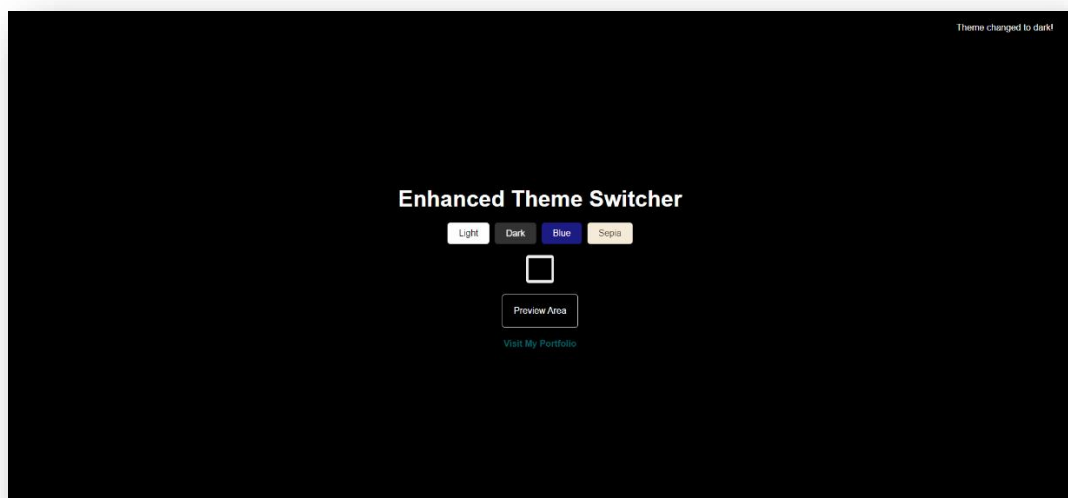
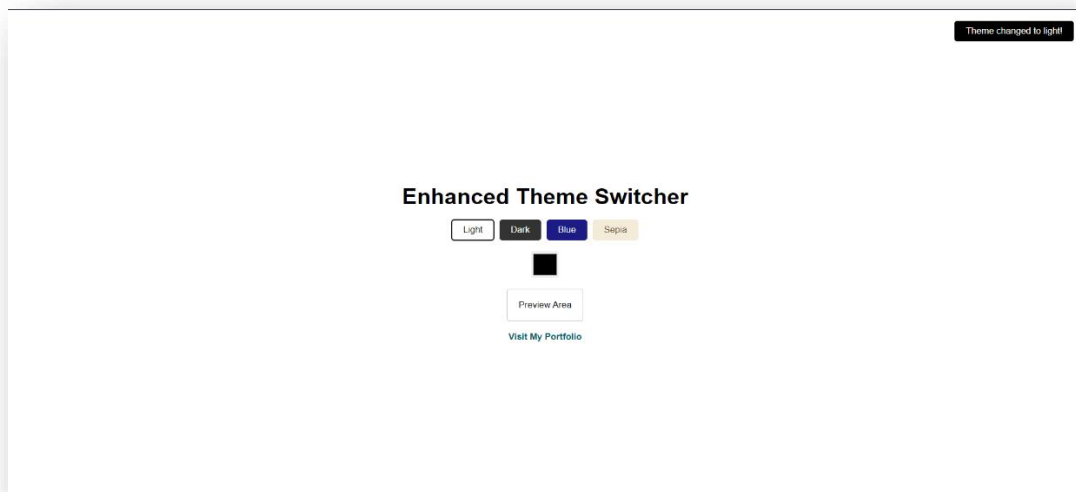


Task 1: Global App Theme Switcher

1. Task-Description

In this task, I developed a global theme switcher for a React application, enabling users to toggle between light and dark themes. The objective was to enhance user experience by providing a personalized interface while ensuring that the selected theme persists across page reloads.

2. Screenshot of Output



3. Widget/Algorithm Used

- **React Context API:** This was utilized to create a global context for theme management. By wrapping the application in a ThemeProvider, I ensured that any component within the tree could access and modify the current theme.
- **Local Storage:** The selected theme is stored in the browser's local storage. Upon loading the application, I check the local storage for the user's previous selection and set the theme accordingly.
- **CSS Variables:** CSS variables were implemented to dynamically change styles based on the selected theme. This allows for smooth transitions and easy management of theme-related styles.

4. Implementation Steps

- Created a ThemeContext.js file to define the context and provider.
- Implemented functions to toggle the theme and to save/retrieve the theme from local storage.
- Designed a simple UI with a toggle switch that allows users to switch between light and dark themes.