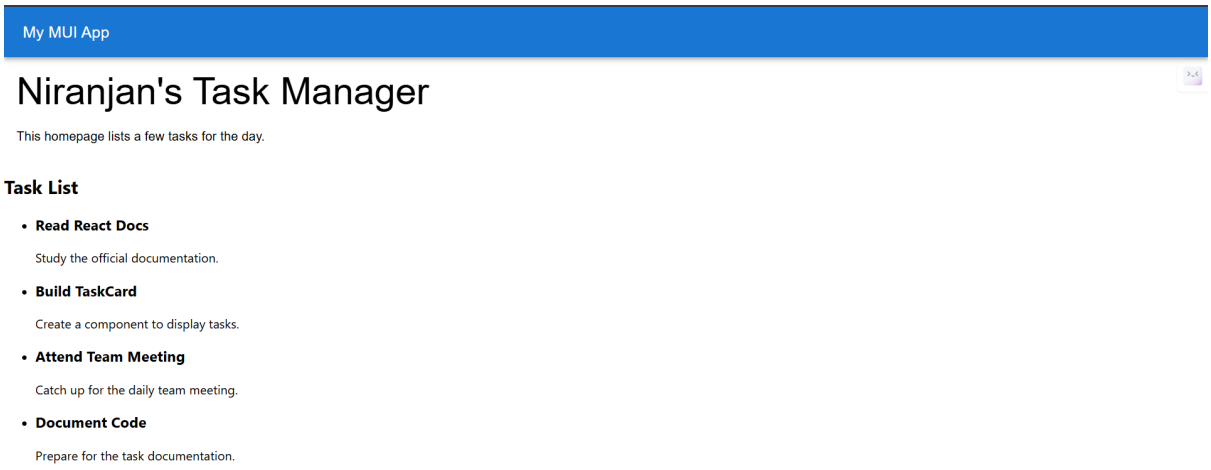
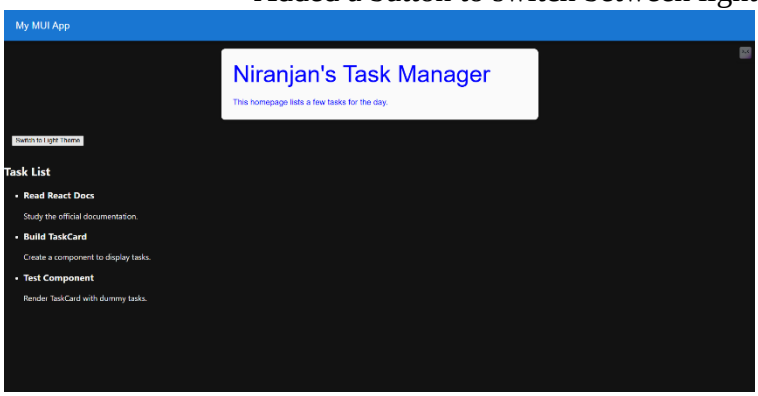
AeroAspire -SDE Intern Training

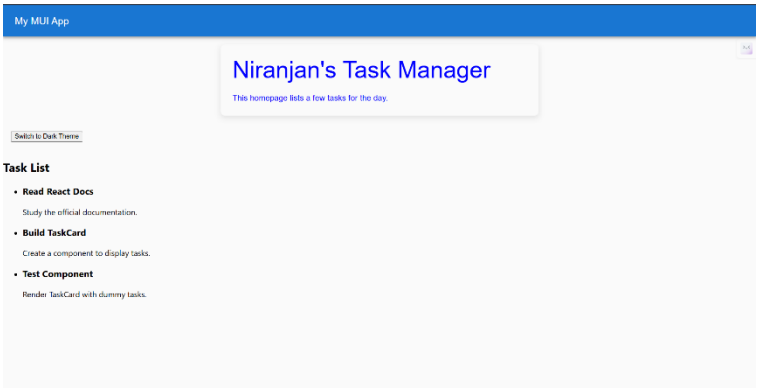
NIRANJAN C N
Week2-Day 2-Sep30



- Used the scaffold from yesterday's task
- Added A new file TaskCard.tsx which consists of dummy data
- Demo sample includes daily tasks
- Used props to pass data from the App to TaskCard.
- App.tsx contains import routes and a default function
- Could improve css part that is now we can have css within the same file

- Added a button to switch between light and dark theme.





Questions

1. Explain how props are passed from parent to child; what happens if props change?

    a. Props are used to pass data from parent component to child components
    b. The child receives the data as parameters
    c. When I change any prop or alter it react automatically renders the changes in the output that is in the web server
2. What is the virtual DOM in React and how does re-render happen when props change?
    a. The virtual DOM is a lighter version of the actual dom.
    b. React has a virtual DOM to efficiently render changes in actual DOM
    c. When props change, React creates a new virtual DOM tree for the updated UI.
    d. It compares the previous and new virtual DOM to find the differences/changes
    e. These changes are then updated to the actual DOM
3. How to avoid unnecessary re-renders?
    a. In react there is memo(useMemo) which is used to make the components re-render when the changes are actually compared shallowly
    b. We can use PureComponent in class components to perform shallow prop and state changes to check for unnecessary re-renders
    c. We can avoid inline object/array literals in JSX as they receive new references on each render making react check for props
    d. We can set a stable key prop when rendering lists to help React update only changed items and avoid unwanted re-renders.