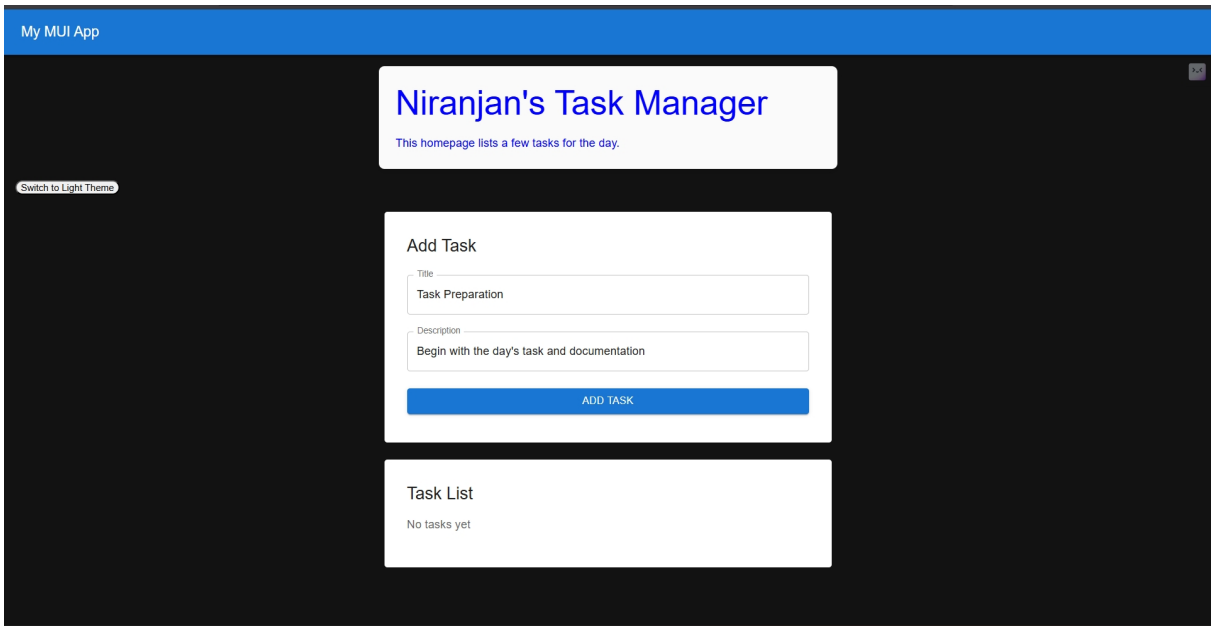
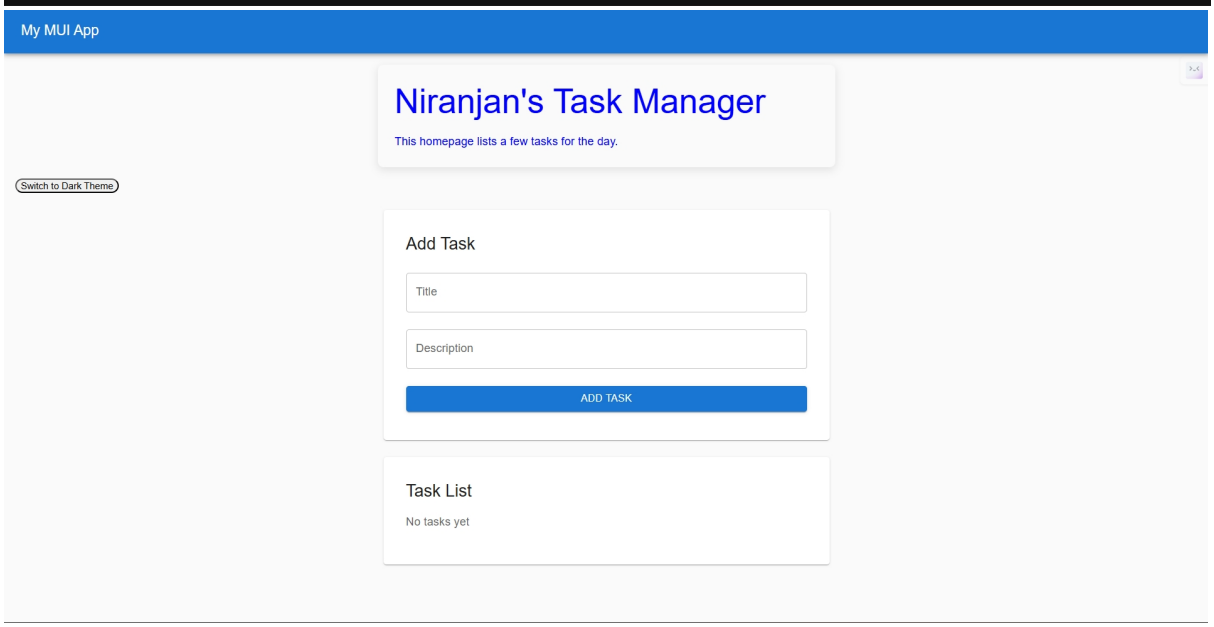
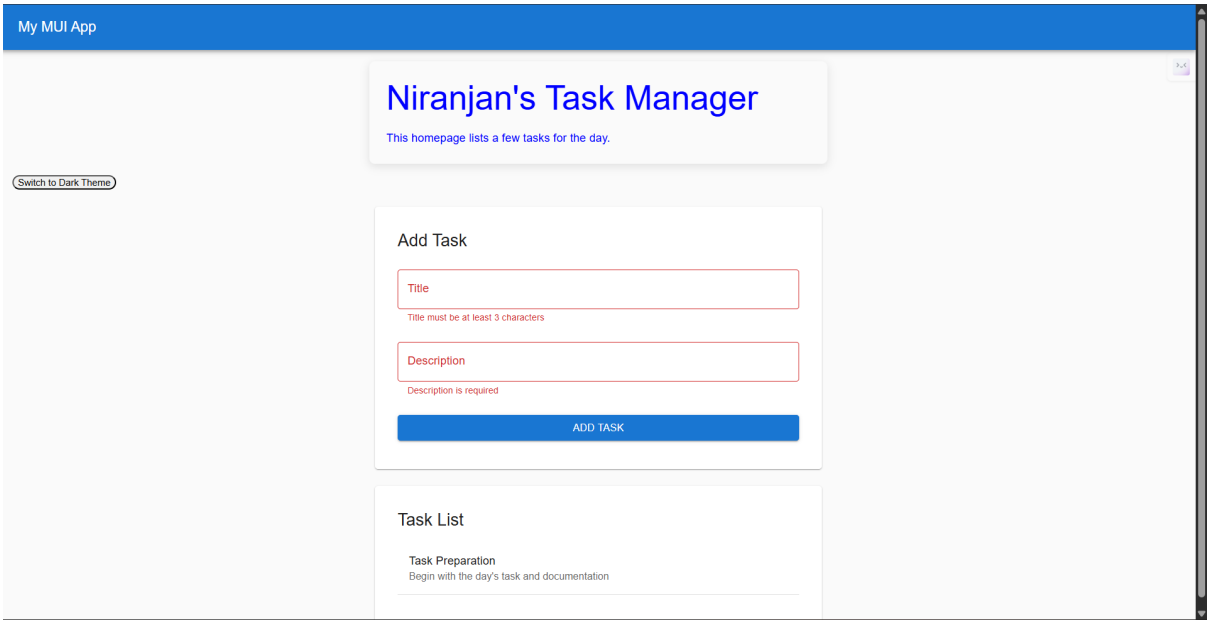
AeroAspire -SDE Intern Training

NIRANJAN C N
Week2-Day 3-Oct1





- Created a new page TaskForm.jsx for the section to add tasks
- Removed the demo values
- The fields check for the criteria for the task input
- Used onChange and onSubmit to check for input criteria
- Prevented reload using preventDefault()
- Added a border radius to make the button a bit rounded
- Further I am thinking to add a po for errors instead of just displaying them in the input field itself.



Questions

1. Walk through flow: user types → state updates → component re-renders → effect runs (if any).
    a. When an input is received from the user a event is triggered
    b. It updates the component using useState
    c. If there is any changes or updates react re-renders the dev server
    d. In case there is any useEffect related to the changed states, the effect runs after the re-render
2. How useEffect works: dependencies, cleanup, initial render.
    a. The useEffect works once the re-render has taken place .
    b. It happens like this after every render
    c. We can pass a dependency array after it re-runs for controlling
    d. Meaning If no array: run after every render, if empty array, run only once after first render
    e. When with dependencies, run after every change
    f. If effect returns a function React calls it before re-running the effect or when the component unmounts.
3. What pitfalls exist (e.g. stale closures, infinite loops)?
    a. Stale closures-
        i. If the useEffect uses old values from props we might get old reference of the effect due to the JavaScript closures
        ii. We can overcome this by including all used props in the dependency array
    b. Infinite loops-
        i. If the effect updates a state that is also in its dependency array, the effect will re render for each state change
        ii. We can overcome this by updating state only when required
4. What is a controlled vs uncontrolled component?

    a. Controlled- The inputs in forms are linked to states, and updated by events and data received from props
    b. Uncontrolled- The data is merged with the DOM and accessed from refs.
5. Describe event handling in forms (onChange, onSubmit).
    a. onChange- Interprets the input received on each stage
    b. onSuubmit- This function is called only when the form is submitted.
    c. This difference between both functions allows validation and control of data at all stages
6. How does MUI help: theming, form helpers, error display?
    a. MUI helps in a uniform theme all around the webpage
    b. All the components share the same css
    c. Form layouts are easier using MUI’s box and grid
    d. The Textfield provides errors and the helperText helps with the validation of errors part
    e. MUI helps in handling the errors in inputs