

📌 Assignment Overview: Advanced Task Manager App

Objective: Develop a **Task Manager App** with the following functionalities:

1) Basic Features

- Add tasks
- Mark tasks as completed
- Delete tasks
- Filter tasks (All, Completed, Pending)
- Persist tasks using Local Storage

2) Additional React Challenges

- **Custom Hooks:** Create a `useLocalStorage` hook to handle local storage operations.
- **Context API:** Use **React Context** instead of prop drilling to manage task data.
- **Performance Optimization:** Use `React.memo`, `useCallback`, and `useMemo` where applicable.
- **Form Validation:** Prevent users from adding empty tasks.

3) Additional CSS Challenges

- **Theming (Dark Mode / Light Mode Toggle)**
- **Animations (CSS transitions for adding/removing tasks)**
- **Responsive Design (Mobile-first approach)**
- **Task Drag-and-Drop (Using `react-beautiful-dnd`)**

Submission Format:

Applicants must commit all code to their personal GitHub repository and share the GitHub link.