Project: Task Management App

You are free to use AI tools to assist in your implementation

Requirements:

1. Build a React-based Task Management App with the following features:

- Users can add, edit, and delete tasks.
- Users can mark tasks as completed.
- Users can filter tasks (e.g., show all, show completed, show pending).
- The app should be responsive and mobile-friendly.

2. State Management:

- Use React Context API, Redux, or Zustand to manage the state.
- Ensure state is persistent across page reloads using local storage or another persistence method.

3. UI/UX & Styling:

- Use a component library like Material-UI, Chakra UI, or Tailwind CSS.
- o Ensure an intuitive and clean design with smooth user interactions.

4. API Integration:

- Fetch and save tasks using a mock API like JSONPlaceholder or a Firebase backend.
- Implement optimistic UI updates to improve the user experience.

5. Testing (Bonus):

- Write unit tests for components using Jest and React Testing Library.
- Include basic end-to-end tests using Cypress or Playwright.

Deliverables:

- A GitHub repository with your project code.
- A README file with setup instructions, project explanation, and design decisions.