Task Manager App (React + Node.js)

(⏳ Total Estimated Time: 8 hours)

Project Setup (⏱ Time: 1 hour)

- Initialize backend (Node.js with Express) and frontend (React with Vite or CRA)
- Set up basic folder structure and CORS

2. Backend – User & Task API (Node.js + Express) (⏱ Time: 2.5 hours)

- Create a REST API with the following:
  - **Auth routes:** Register, Login (JWT-based)
  - **Task routes:** Create, Read (all by user), Update, Delete
- Store data using MongoDB (or in-memory/JSON for simplicity)

3. Frontend – React UI (⏱ Time: 3 hours)

- Build pages/components:
  - Login & Registration forms
  - Dashboard (list of tasks)
  - Form to add/update tasks
- Connect frontend to backend using `fetch` or `axios`

4. Authentication & Protected Routes (⏱ Time: 1 hour)

- Store JWT token in localStorage
- Redirect unauthenticated users to login
- Protect routes on frontend (e.g., `/dashboard`)

5. Final Testing & Submission (⏱ Estimated Time: 0.5 hour)

- Test all flows (register, login, CRUD tasks)
- Optional: Add loading states or error messages
- Submit with README and screenshots

🔒 Core Features

- User registration & login (JWT auth)
- Add/edit/delete tasks (CRUD)
- Only authenticated users can manage their tasks
- Separate backend and frontend apps