

Project: Task Management App (Mini Jira)

Create a mini task management system where users can:

- Sign up / log in
 - Create and manage projects
 - Add tasks to a project
 - Update task status (e.g., To Do, In Progress, Done)
 - View projects and tasks on a dashboard
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Tech Stack Requirements

- **Frontend:** React + TypeScript
 - **Backend:** Node.js + Express + TypeScript
 - **Database:** MongoDB
 - **Authentication:** JWT (JSON Web Tokens)
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Core Features & Scoring (Total: 100 points)

1. Authentication (20 points)

- [10 pts] User Registration and Login using JWT
 - [10 pts] Protected routes (only logged-in users can access dashboard)
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2. Backend API with Express (25 points)

- [10 pts] RESTful routes for:
 - `/projects` (CRUD)
 - `/tasks` (CRUD)
 - [5 pts] Tasks belong to a project (`projectId` reference)
 - [5 pts] Tasks have status: `todo`, `in-progress`, `done`
 - [5 pts] Type-safe request/response handling using TypeScript interfaces
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3. MongoDB Schema Design (10 points)

- [5 pts] Separate collections for Users, Projects, Tasks
 - [5 pts] Correct use of references and validation (e.g., `ref`, `required`)
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4. Frontend React App (30 points)

- [10 pts] Dashboard page: list all projects and associated tasks
 - [10 pts] Ability to create/edit/delete tasks within a project
 - [5 pts] Drag-and-drop or dropdown to change task status (bonus if real-time updated)
 - [5 pts] Use of React hooks and clean folder structure with TypeScript types/interfaces
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5. UI & UX (10 points)

- [5 pts] Basic but clean UI (e.g., Bootstrap, Tailwind, or Material UI)
- [5 pts] Loading indicators, error messages, and input validation

6. Bonus (5 points)

- [2 pts] Responsive design (mobile-friendly)
 - [3 pts] Add project members (invite by email - mock only)
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Submission Instructions

1. Push the code to a private GitHub repo and invite us.
2. Include a **README.md** with:
 - Setup instructions
 - Technologies used
 - API documentation (brief)
 - Time taken and which parts are complete/incomplete