



Collaborative Task Manager with MERN Stack

Objective

The team will design and implement a simple collaborative task manager using the MERN stack. The application should allow users to create tasks, assign them to team members, update their status, and view all tasks. The focus is on modular design, clean code, and teamwork.

Requirements

1. Core Features:

- Create a task with the following details:
 - Title (string)
 - Description (string)
 - Assigned To (string, representing a team member's name)
 - Status (enum: "To Do", "In Progress", "Done")
- Update the status of a task.
- List all tasks with filters:
 - By status (e.g., show only "In Progress" tasks).
 - By assignee (e.g., show tasks assigned to "Alice").
- Delete a task.

2. Tech Stack:

- Frontend: React.js (functional components with hooks).
- Backend: Node.js with Express.js.
- Database: MongoDB (use Mongoose for schema modeling).



- Styling: Basic CSS or a library like Bootstrap/Material-UI.
- Version Control: Use Git for collaboration.

3. Team Roles (to assess collaboration):

- Frontend Developer: Responsible for designing the UI and integrating API calls.
- Backend Developer: Implements the RESTful API and connects it to MongoDB.
- Database Handler: Designs the Mongoose schema and ensures data integrity.
- Tester/QA: Tests the application end-to-end and ensures functionality.

Deliverables

1. A working MERN stack application with the above features.
2. A README file explaining:
 - How to set up and run the project (both frontend and backend).
 - API documentation (endpoints, request/response examples).
3. Evidence of teamwork (e.g., Git commits, role distribution) in case of working as a team.