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Project ID: 02

Project Title: Create and track project with collaborators

IMPLEMENTATION TIMELINE:

Phase	Deadline	Status	Notes
Stage 1	03-06-2024	In progress ▾	Planning and Requirement gathering
Stage 2		Not started ▾	Design and Prototyping
Stage 3		Not started ▾	DB Designing
Stage 4		Not started ▾	Backend Implementation
Stage 5		Not started ▾	Testing & Implementation

INTRODUCTION:

The Create and Track Project with Collaborators system aims to facilitate efficient project management and collaboration using the MEAN stack (MongoDB, Express.js, Angular, Node.js). This system addresses the challenges faced in traditional project management methods, including lack of centralized collaboration, difficulty in tracking project progress, and communication gaps among team members. By providing a comprehensive platform for project creation, tracking, and collaboration, the system aims to enhance productivity, streamline communication, and ensure seamless coordination among collaborators.

PURPOSE:

The primary purpose of the Create and Track Project with Collaborators system is to:

- Develop a centralized platform for creating, managing, and tracking projects in real-time.
- Facilitate seamless collaboration among project team members, regardless of geographical locations.

- Enhance project visibility and transparency by providing comprehensive tracking and reporting functionalities.
- Streamline communication channels to ensure efficient coordination and decision-making within project teams.

SCOPE

The scope of the project encompasses the following key components:

- User registration and authentication for project collaborators.
- Project creation, management, and tracking functionalities.
- Task assignment, progress tracking, and milestone management.
- File sharing and document management within project teams.
- Real-time communication channels, including chat and notifications.
- Integration with external tools and APIs for enhanced functionality.

BUSINESS CONTEXT

The Create and Track Project with Collaborators system operates within the following business context:

- Optimization of project management processes through centralized collaboration and tracking.
- Reduction of communication gaps and inefficiencies within project teams.
- Enhancement of productivity and decision-making through real-time project visibility.
- Primary stakeholders include project managers, team members, and stakeholders involved in project execution.

CONSIDERATIONS

Key considerations for the Create and Track Project with Collaborators system include:

- User-friendly interface for ease of use and adoption by project team members.
- Integration with the MEAN stack technologies for seamless development and deployment.
- Security measures to protect sensitive project data and user information.
- Scalability to accommodate projects of varying sizes and complexities.
- Customization options to adapt to specific project requirements and workflows.

DEPENDENCIES

The Create and Track Project with Collaborators system relies on the following dependencies:

- MongoDB for data storage and management.
- Express.js for building the backend API and server.
- Angular for developing the frontend user interface.
- Node.js for server-side JavaScript runtime environment.
- Integration with external APIs and tools for extended functionality.

USER PERSONAS

The system caters to the following user personas:

- **Project Manager:** Responsible for creating, managing, and tracking projects.
- **Team Member:** Collaborates on project tasks, updates progress, and communicates with team members.
- **Stakeholder:** Monitors project progress, provides feedback, and participates in decision-making processes.

USER STORIES

User stories for the Create and Track Project with Collaborators system include:

- **Project Manager:** Easily create new projects, assign tasks to team members, and track project progress in real-time.
- **Team Member:** Access assigned tasks, update task status, and collaborate with other team members using built-in communication channels.
- **Stakeholder:** Monitor project milestones, view progress reports, and provide feedback to project managers and team members.

FUNCTIONAL REQUIREMENTS

The functional requirements of the system encompass the following aspects:

- **User Registration and Authentication:** Users register and authenticate to access project functionalities securely.
- **Project Creation and Management:** Project managers create new projects, define project scope, and manage project details.

- **Task Assignment and Progress Tracking:** Tasks are assigned to team members, who update task status and progress regularly.
- **File Sharing and Document Management:** Project teams share files, documents, and resources within the system.
- **Real-time Communication:** Built-in chat and notification features facilitate real-time communication among project team members.

FLOWCHART:



