## **Task Monitoring System**

Author: Camden Thomson

**Project Title: Task Monitoring System** 

Project Webpage URL: <a href="mailto:Camden3030/Task-Monitoring-System">Camden3030/Task-Monitoring-System</a>

### **Key Features:**

• User Authentication: Secure login and user role management.

- Task Management: Create, assign, and track tasks with priority levels.
- Collaboration Features: Team-based task assignment and real-time updates.
- Notifications & Alerts: Email and in-app notifications for deadlines.
- Dashboard & Reports: Visual representation of task progress.
- Responsive Design: Mobile and web-friendly user interface.
- Data Security: Encryption and backup mechanisms for data integrity.

#### **System Requirements:**

Frontend: React.js, Material UI Backend: Node.js, Express.js

Database: MongoDB

Authentication: JWT (JSON Web Token)
Hosting: AWS/GCP Cloud Services
Development Tools: GitHub, Notepad++

#### **Hardware Requirements:**

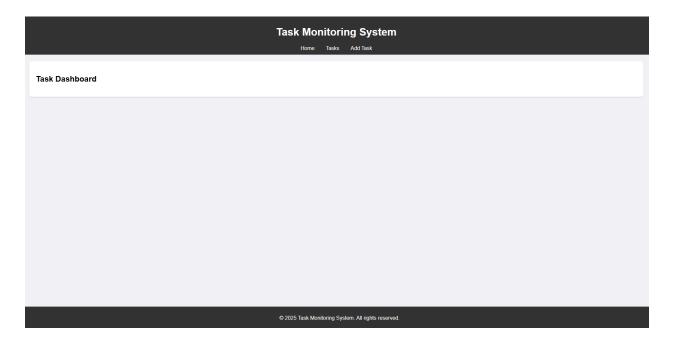
• Server Hosting: At least 4GB RAM and 50GB storage

• Development Machines: Minimum 8GB RAM

• Stable internet connectivity required for real-time collaboration

## **Screenshots:**

1. **Task Home Page:** This section showcases a list of tasks with their titles, statuses, and due dates.



2. **Create New Task Form UI:** This section showcases the form used to create new tasks, including fields for task title, status, and due date.

Add a New Task Home Tasks	
Task Details  Task Title: Status: Not Started → Due Date:  mm/dd/yyyy   ®   Create Task	
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# **Demo Link:**

https://youtu.be/JlpnPZNUxeM

# **Target Users:**

- Freelancers: Organize personal workflows and deadlines.
- Small to Medium-sized Businesses: Manage team projects efficiently.
- Students & Academic Groups: Track assignments and deadlines.
- Event Planners: Coordinate multiple tasks in real-time.

# **Development Plan:**

Phase Tasks Duration

Planning Define requirements, tech stack, and UI mockups 1 week

UI/UX Design	Create wireframes, user journeys, and UI design	2 weeks
Backend Setup	Implement API endpoints, authentication, and DB models	3 weeks
Frontend Development	Build UI components and integrate backend APIs	3 weeks
Testing	Unit tests, integration tests, and user feedback	2 weeks
Deployment	Deploy to cloud, optimize performance, and launch	1 week
Maintenance	Monitor performance, gather feedback, and iterate	Ongoing