

Task Management System A Web App



Team Members

Omnia Mohamed Farid Abouhaikal Abdelrahman Mahmoud Hussein Rowaina Abdelsalam Anwar Shata Yasmin El Tahan Marwan Elsayed Abdelaziz **Basel Mohamed Basiouny**



A Task Management System that allows users to efficiently create, manage, and track tasks.



Project Features

- Task Creation & Management: Easily create tasks with the fields Title, Status (To Do, In Progress, Done), Priority (Low, Medium, High), Category, Due Date.
- Status Tracking: Mark tasks with their status.
- Search by Title: Quickly find tasks by searching for their titles.
- Sorting Options: Sort tasks by any of the fields listed above.



Architecture

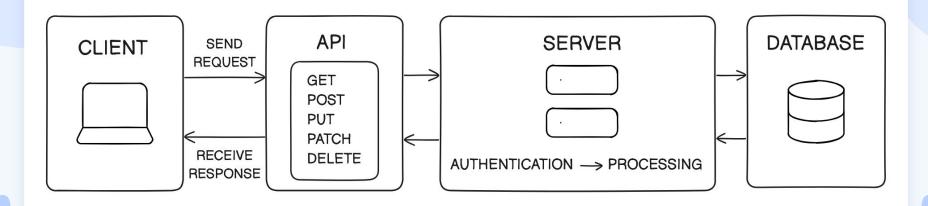
Client-Server Model

- Server: RESTful API endpoints for managing users and tasks. Requests are processed by the server, authenticated, interact with MongoDB via Mongoose, and return responses.
- Client: The client handles the user interface and sends HTTPS requests using Axios to the server for data.





Architecture





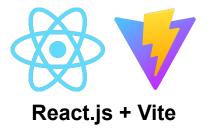


Tech Stack











MongoDB + Mongoose + MongoDB Atlas





Timeline

Date Range	Phase	Details
20 September - 27 September	Choosing a project idea	-
28 September - 7 October	Planning the project	Approach and flow, dividing tasks
8 October - 11 October	Finalizing project plans	UI design, API endpoints, etc.
12 October - 19 October	Implementation phase	Each team member took on their respective roles: - UI components design and implementation - API deployment on Vercel - Implementing API requests from the frontend - Filter and sort functionalities - Login/register pages and logout implementation - Adjustments as needed
20 October	Deployment and final tasks	Frontend deployment, final tweaks, testing, project delivery/submission





Success:

Delivered a functioning app with:

- CRUD operations for the task management
- Authentication
- Session management using JWT for login and logout on the client side.



Challenges:

- **Busy Schedules:** Coordinating between team members' busy schedules impacted project progress.
- Limited time
- Feature Limitations: Some additional features had to be postponed due to time constraints.



Developments Report Areas for Improvement

- Endpoint Consistency: Standardize endpoint design and data flow.
- Performance Optimization: Optimize request handling and reduce response times.
- Token Management: Integrate JWT for more efficient token management.





Lessons Learned:

- Adapting to New Technologies
- Collaborative Learning: Benefited from each other's expertise, leading to personal and team growth.



Areas for Improvement & Future Plans

- Code Refactoring
- JWT: Set expiry and handle it with refresh tokens.
- Implement user roles in frontend (for managers to assign tasks to employees) (already implemented in the backend).
- User account deletion in frontend (already implemented in the backend).
- Password reset functionality.





Live Demo





Thank you

Deployment link:

https://depi-task-management.vercel.app/