Object Oriented Programming

Proposal Task Monster

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Introduction

Task Monster is a simple, web-based task management tool created for small business owners to organize their daily tasks, deadlines, and priorities. Unlike more complex project management platforms, Task Monster emphasizes ease of use, offering a clear and uncomplicated interface for managing tasks in a structured manner. This tool is ideal for businesses seeking a lightweight solution to track daily work and prioritize tasks without the need for extensive customization or added complexity.

Project Objectives

The primary objective of Task Monster is to create a user-friendly, accessible web-based application where small business owners can:

1. Add tasks with descriptions, deadlines, and priorities.
2. View a list of tasks in order of priority and due dates.
3. Easily track and manage ongoing tasks with minimal setup.

Target Audience

The main target audience for Task Monster includes:

- Small business owners who need an easy-to-use tool to track tasks.
- Individuals or teams looking for a basic task management system without unnecessary complexity.
- Businesses with limited resources who need a simple solution rather than a large-scale project management software.

Features and Tools

1. Task Creation
   - Users can create tasks with a name, description, priority level (low, medium, high), and due date.
   - Fields for task name, deadline, and priority selection (dropdown or input fields).

2. Task List/Display
   - A dashboard showing all tasks in a list or table format.
   - Sorting options to view tasks by:
   - Priority (high to low)
   - Deadline (upcoming first)
   - Task status (completed, pending)
   - Highlighting or color-coding based on priority.

3. Task Status
   - Mark tasks as "completed" or "in progress."
   - Task completion checkbox or toggle.

4. Task Editing
   - Users can edit task details (e.g., change task name, due date, or priority).
   - Option to update the status or change the priority.

5. Task Deletion
   - Users can delete tasks that are no longer needed.
   - Confirmation prompts before deletion to avoid accidental removal.

6. Search Functionality
   - A search bar to quickly find specific tasks based on keywords or dates.

7. Priority Management
   - Visual indicators (color or icons) for task priority levels.
   - Automatic sorting of tasks based on priority.

8. Deadline Reminders (Future Feature)
   - Send reminders for upcoming tasks, either through notifications or emails (optional).
   - Highlight overdue tasks in the dashboard.

9. User Authentication (Future Feature)
   - Allow multiple users to create individual accounts.
   - Separate task lists for each user or shared tasks for teams.

10. Mobile Responsive Design
   - Ensure the task manager works well on mobile devices (responsive design).
   - Adjust layouts for smaller screens, including touch-friendly buttons.

Future Enhancements

Beyond the initial scope, there are several areas where TaskMaster can be improved:

1. Task Editing and Deletion :
   - Add functionality for users to edit or delete tasks.

2. Database Integration :
   - Replace the text file with a database to handle larger task lists and improve scalability.

3. User Authentication :
   - Implement user accounts so multiple users can manage their own tasks within the system.

4. Notifications and Reminders :
   - Add features to send email or SMS notifications when tasks are nearing their deadlines.

5. Mobile-Friendly Design :
    - Improve the interface to be fully responsive for mobile devices.