**TASK MANAGEMENT SYSTEM  
Project Abstract**

**Names: Sec: 1**

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**"Task-Flow: A Comprehensive Task Management System"**

**Abstract:**

Managing tasks efficiently is a common challenge for individuals and teams. People often struggle to organize tasks, keep track of deadlines, and prioritize work effectively. This can lead to missed deadlines, poor productivity, and confusion when handling multiple tasks or projects.

Many existing task management tools are either too complicated or lack essential features such as deadline reminders, task grouping, and easy prioritization. Users need a simple yet powerful solution to plan, organize, and track tasks without unnecessary complexity.

This project aims to develop a user-friendly task management system that allows users to create tasks, set deadlines, assign priority levels, and organize tasks into groups. With features like deadline notifications and a clean, interactive dashboard, the system will help users stay on top of their work and improve productivity.

**Dataset:**

1.**https://drive.google.com/file/d/1yvOx8ABI79Vz7LAnmv0HtaFYKgGew\_66/view?usp=drive\_link**

**Algorithm:**

**Step 1**: Data Preparation Organize task details into a structured format (like a list or simple database), and create a small set of example tasks with categories/priorities for basic AI.

**Step 2**: Feature Extraction: Isolate key words from task descriptions to enable simple AI categorization and priority suggestions

**Step 3**: Visualization and Interpretation**:** Display task lists clearly, and use simple charts or tables to show task status or priority distributions.

**Step 4**: Validation and Experimental Confirmation**:** Test the system by adding, viewing, and completing tasks, and refine the AI suggestions based on how well they match user expectations.  
Validate using user feedback and experimental testing (e.g., A/B testing).

**Step 9**: Iterative Refinement: Throughout all stages, continuously improve the system by testing, gathering feedback, and making adjustments..

**Expected Outcome:**

The Project will feature an intuitive user interface with an interactive dashboard that offers a clear view of tasks, deadlines, and categories. Users will be able to assign tasks high, medium, or low priority, ensuring they focus on what's most important. Notifications and alerts will remind users of approaching deadlines, reducing the risk of overlooked tasks.

The system will also support task grouping, allowing users to organize related tasks into specific categories, such as projects or departments, to enhance clarity and collaboration. Designed with scalability and flexibility in mind, the project will leverage modern web technologies and best development practices to ensure a seamless experience across devices.

By offering these features in a user-friendly and visually appealing interface, this task management system aims to empower users to take control of their tasks, meet deadlines, and enhance overall productivity.