**Task Management Plan Project**

**The Idea:**

Our task management system is a collaborative web-based application designed to simplify task management for individuals. The system will allow users to create, assign, and track tasks easily and empower users to efficiently organize, prioritize, and complete tasks, ensuring productivity. The system provides a user-friendly interface and a range of features like notifications, reminders for task due dates, and collaboration tools that will empower users to stay productive and organized.

**The problem Statement:**

Modern life is full of tasks and deadlines, which can be challenging to manage effectively. Many existing solutions have a lack of customization options, poor features, or intuitive design. This often leads to missed deadlines, unorganized processes, and decreased productivity**.** This project aims to solve these challenges by providing a user-friendly platform, and it will empower users to stay organized, meet deadlines, and enhance productivity through an efficient and user-friendly design.

**User Personas:**

**Sara**

* **Age:** 30
* **Occupation:** Software Engineer
* **Needs:** Manage work-related tasks and prioritize based on deadlines.
* **Pain Points:** Struggles with tracking project deadlines and assigning responsibilities in an unstructured task environment.

**Mohamed**

* **Age:** 22
* **Occupation:** University Student
* **Needs:** Organize study schedules, assignments, and part-time work tasks on a single platform.
* **Pain Points:** Finds it difficult to balance personal and academic commitments effectively.

**Ali**

* **Age:** 35
* **Occupation:** Entrepreneur
* **Needs:** Monitor team progress, categorize tasks by projects, and set reminders for important deadlines.
* **Pain Points:** Lacks a system to delegate and track tasks across multiple categories.

**Requirements:**

1. **Functional Requirements**

* **User Authentication:** Register (Sign Up), Log in, Log out
* **Task Management:** Create Tasks, Edit Tasks, Delete Tasks, Search Tasks, Mark tasks as completed/pending
* **Task Organization:** categorize tasks (e.g., work, personnel), Sort tasks by due dates, priority, category
* **Reminders and Notifications:** set reminders for tasks, receive notifications for upcoming due dates

1. **Non- Functional Requirements**
2. **Usability**

• The system should have an intuitive and user-friendly interface.

• The system should provide clear feedback to users for their actions.

1. **Performance**:

• The system should handle multiple users and tasks efficiently.

• The system should respond to user actions fast.

1. **Security**:

• User data should be securely stored and transmitted.

• The system should implement proper authentication and authorization

• mechanisms.

1. **Scalability:**

• The system should be able to accommodate a growing number of users and tasks.

1. **Reliability:**

• The system should be available 99.9% of the time.

• The system should handle errors and provide meaningful error messages

**Diagrams**

1. **Use Case**

A diagram of a person

Description automatically generated

1. **Class Diagram**

**A diagram of a task

Description automatically generated**