**Task Manager**

**functional requirements:**

1. **User Registration and login**
   1. Users should be able to register and create an account.
   2. Users should be able to log in securely using their credentials.
   3. Users should be able to reset their passwords if forgotten.
2. **Task Creation and Management** 
   1. Create tasks with titles, descriptions, due dates, priorities, and categories.
   2. Enable them to edit, delete , and mark tasks as complete.
   3. Recurring Tasks: allow users to create tasks that repeat at specific intervals, such as daily, weekly, monthly, or custom recurrence patterns.
   4. Tags and Labels: implement a system for users to categorize and label tasks using tags or labels.

1. **Share task**
2. User is able share his task and categorize on deferent platform like (Bluetooth, WhatsApp, Email….).
3. **Show calendar**.

**a**. User is able show his schedule on the way he want like by (day, week, month, year)

1. **Task Prioritization**
2. Allow users to assign priorities to their tasks, such as high, medium, or low.
3. Enable users to link tasks together and define dependencies.
4. **Task Collaboration**

a. Provides the ability to assign tasks or category to specific people or teams to get collaboration.

1. **Task categorization**
2. Allow user to set category a group of tasks, and set specific setting to this category.
3. **Create report and export data**

a. Allow users to export their task data in various formats, such as CSV or PDF.

**Non-functional Requirements:**

1. **Performance:**
2. To achieve optimal performance, the system must be able to handle multiple tasks and users at the same time.
3. The response time for user interactions should be less than 2 sec.
4. **Scalability:**
5. Systems need to be scalable as the number of tasks increases with time.
6. **Reliability:**
7. The system must be reliable to ensure that tasks are not lost or corrupted.
8. It is necessary to have systems in place to handle failures, such as automatic data backups and redundancy.
9. **Security:**
10. To ensure the safety of task data and user information, systems must meet standard security measures.
11. **Usability:**
12. The system should be user-friendly and intuitive so that users can easily create, manage, and prioritize tasks.
13. User should be aware of application after 2 hours of training maximum.
14. **Compatibility:**
15. The system must be compatible with a variety of platforms, browsers, and devices.
16. **Maintainability:**
17. A simple system that can be easily maintained and expanded should be the focus.
18. To make the codebase more flexible, it should be well-documented so that future updates, bugs fixed as needed, and new features added.
19. **Performance Efficiency:**

a. Optimize resource usage and reduced requirements for memory, processor, storage, and performance.