Task Manager

functional requirements:

1. User Registration and Authentication:

- Users should be able to register and create an account.
- Users should be able to log in securely using their credentials.
- Users should be able to reset their passwords if forgotten.

2. Task Creation and Management Allow users to:

- Create tasks with titles, descriptions, due dates, priorities, and categories.
- Enable them to edit, delete, and mark tasks as complete.
- Recurring Tasks: allow users to create tasks that repeat at specific intervals, such as daily, weekly, monthly, or custom recurrence patterns.
- Tags and Labels: implement a system for users to categorize and label tasks using tags or labels.

3. Reminders and Notifications:

 Implement a reminder system that sends notifications to users for upcoming tasks and deadlines. Users should have the ability to customize the timing and frequency of reminders.

4. Task Prioritization:

Allow users to assign priorities to their tasks, such as high, medium, or low.
Implement sorting and filtering options to view tasks based on priority levels.

5. Task Dependencies:

• Enable users to link tasks together and define dependencies.

6. Task Assignment and Collaboration:

 Provide the ability to assign tasks to specific individuals or teams. Implement features that facilitate collaboration, such as task comments, file attachments, and real-time updates.

7. Task Notes and Attachments:

• Enable users to add additional notes or descriptions to tasks. Allow attachments of files or links related to the task, such as documents or web resources.

8. Progress Tracking:

• Provide users with the ability to track the progress of their tasks. This can be done through status updates, progress percentages, or visual indicators, giving users a clear view of their task completion.

9. Data Export:

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

Non-functional Requirements:

1. Performance:

- The system should be able to handle a large number of tasks and users without significant performance degradation.
- The response time for user interactions should be fast and efficient.

2. Security:

- User authentication and data transmission should be secure.
- User data should be protected from unauthorized access.

3. Usability:

- The user interface should be intuitive and easy to navigate.
- Users should be able to quickly learn and understand the features and functionalities of the task manager.
- The system should provide clear and meaningful error messages to assist users in troubleshooting.