Software Requirements

Functional Requirements

This section outlines the core functional requirements for our project management software. These may evolve as the project grows and adapts to new needs.

1. Users must be able to create an account for information tracking.

2. Users must be able to delete their accounts.

3. Each account must have a unique identifier, including an **ID and an email address**.

4. There must be a distinction between user roles: **Team Member, Project Lead, and Project Manager**.

5. **Project Managers** must be able to:

    o   Create projects.

    o   Assign **Project Leads and Team Members** to projects.

6. **Project Leads** must be able to:

    o   Assign tasks to team members.

    o   Assign additional team members to a project.

7. **Project visibility**:

    o   **Project Managers** can see **all projects**.

    o   **Project Leads and Team Members** can only see the projects they are a part of.

8. Task management features must include:

    o   Creating tasks for project members.

    o   Assigning priority levels.

    o   Marking tasks as completed.

    o   Specifying an **expected completion date** and **actual completion date**.

- Listing the **team members** who worked on the task.

9. Project health status must be visible and updatable to indicate how close the project is to meeting expectations.

10. Each project must have **sub-charters** with specific project-related information.

11. A **resource planning** feature must allow teams to allocate and manage resources for each project.

12. Every project must include a **task list**, enabling the project lead to:

  - Generate tasks.

  - Assign tasks to team members.

  - Provide all necessary details for each task.

13. Each project must have a **risk analysis** section, detailing potential risks and mitigation strategies.

14. **Integration with Google Calendar and Outlook Calendar** for scheduling meetings.

Non-Functional Requirements

These requirements define system performance, security, and usability expectations.

1. The **database** must maintain regular backups to **prevent data loss**.

2. The UI must be **fully responsive** and function seamlessly on **browsers**.

3. The software must be **scalable**, ensuring minimal overhead.

4. The software must be **reliable** and function as intended.

5. The software must be **secure**, protecting user **anonymity and data privacy**.

6. The application must support **dark mode** based on user preference.