

Project Planning Phase

Project Planning & Documentation

Date	03/11/2025
Team ID	NM2025TMID04465
Project Name	Medical Inventory Management
Maximum Marks	10 Marks

1. Objective

The main objective of this project is to design a **Medical Inventory Management System** that automates stock control, reduces human error, and ensures timely availability of essential medicines. The system will provide expiry alerts, stock level updates, and detailed reports for efficient decision-making.

2. Scope of the Project

The project covers automation of medicine tracking in hospitals and pharmacies. It includes entry of medicines, expiry alerts, stock updates, and report generation. It helps reduce wastage, save time, and improve stock accuracy and transparency.

3. Resource Planning

The project requires both hardware and software resources. Hardware includes laptops/PCs and barcode scanners. Software includes Salesforce, SQL database, and a web browser. The team roles are divided as:

- Team Leader: Guides and monitors work
 - Developer: Builds the system functions
 - Designer: Creates simple user interface
 - Tester: Checks and verifies performance
- These resources ensure smooth and efficient project execution.

4. Project Timeline and Milestones

The project will be completed in **8 weeks**.

- **Ideation:** 1 week – Idea and problem selection
 - **Planning:** 1 week – Resource and task planning
 - **Design:** 2 weeks – System design
 - **Development:** 3 weeks – Coding and module creation
 - **Testing:** 1 week – Final testing and review
- Each phase will be reviewed before moving forward.

5. Risk Analysis

- **Data Loss:** Avoided through cloud backups
- **Downtime:** Prevented by regular maintenance
- **User Errors:** Reduced with training and simple UI
- **Performance Issues:** Solved through testing and optimization

6. Expected Outcome

- Real-time tracking of medicines
- Fewer manual errors and expired stock
- Quick and accurate report generation
- Improved workflow and efficiency in hospitals

7. Conclusion

The **Project Planning Phase** helped our team define objectives, resources, and timelines clearly. It ensures smooth development and successful completion of the *Medical Inventory Management System*, providing a reliable and efficient solution for healthcare inventory management.

