

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	25/10/2025
Team ID	NM2025TMID04465
Project Name	Medical Inventory Management
Maximum Marks	10 Marks

1. Project Description

This project aims to build a digital system that automates medical inventory management in hospitals and pharmacies. It tracks stock, monitors expiry dates, and reduces manual errors, ensuring real-time updates and improved efficiency.

2. Problem Statement

Problem: Hospitals and pharmacies face challenges like overstocking, expired medicines, and lack of real-time tracking.

Solution: A *Medical Inventory Management System* that automates stock control, provides expiry alerts, and ensures accurate, real-time updates.

3. Brainstorming Process

Step 1: Team discussion identified manual inventory issues.

Step 2: Ideas shared for automation and expiry alerts.

Step 3: Grouped ideas into *Tracking, Alerts, and Reports*.

Step 4: Feasible ideas were assigned for further design and testing.

4. Idea Prioritization

After evaluating ideas based on impact and feasibility, the top priorities were:

- **Real-time stock tracking:** Ensures accuracy and transparency.
- **Expiry and low-stock alerts:** Prevents waste and shortage.
- **Automated reports:** Simplifies audits and restocking.
- **Predictive analytics:** Forecasts medicine needs.

- **Role-based access:** Improves data security and accountability.

5. Innovation Points

- **Smart Expiry Tracking:** Highlights medicines nearing expiry.
- **Predictive Management:** Forecasts future stock needs.
- **Dashboard Visualization:** Displays real-time status.
- **Cloud Access:** Enables secure remote use.

6. Expected Outcome

- Reduced manual work and human errors.
- Real-time stock monitoring and alerts.
- Less wastage and better availability of medicines.
- Improved accuracy and efficiency in hospital operations.

7. Conclusion

The Ideation Phase helped our team identify major challenges and brainstorm effective, automated solutions. Through collaboration and prioritization, we finalized ideas that form the base of a reliable and efficient *Medical Inventory Management System*.