

# 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*.