

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	03 NOV 2025
Team ID	NM2025TMID05036
Project Name	Medical Inventory Management
Maximum Marks	4 Marks

Medical Inventory Management Template:

This guided project demonstrates how to efficiently manage and monitor medical inventory in healthcare environments. It focuses on maintaining accurate records of medicines, consumables, and medical equipment across different departments. The aim is to develop a system that tracks available stock, identifies shortages, and alerts users before items expire. The workflow begins by categorizing inventory items and assigning them to departments. Rules are created to ensure timely updates whenever stock is issued, received, or expired. This prevents critical shortages and reduces wastage. Regular validation checks help maintain accuracy and support transparent reporting. The project ensures proper medical resource management, enabling hospitals and clinics to deliver uninterrupted patient care.

Step-1: Team Gathering, Collaboration and Select the Problem Statement:

The team discussed key challenges faced by hospitals in managing medicines and equipment efficiently. After analyzing common issues, the team identified the main problem: “**Lack of a systematic inventory tracking process leading to shortages, wastage, and expired medical stock.**” To address this, the team decided to build a centralized system that tracks each medical item’s quantity, expiry, and supplier details in real time. This solution aims to improve hospital resource management and ensure timely restocking of essential supplies.

Step-2: Brainstorm, Idea Listing and Grouping:

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Idea Listing



Fig2: Image that describes the work done by teammates.

- Brainstorm:**
Team members share ideas freely to explore solutions without judgment, encouraging creativity and participation.
- Idea Listing:**
All ideas from the session are written down to capture every suggestion and ensure no input is overlooked.
- Grouping:**
Similar ideas are organized into categories to identify patterns, highlight priorities, and simplify decision-making.
- Action Planning:**
Chosen ideas are turned into clear steps with assigned responsibilities and timelines.

■ **Brainstorm:** Team members shared ideas on how to automate and optimize medical inventory management. Suggestions included barcode-based tracking, expiry alerts, and vendor database management.

■ **Idea Listing:** All ideas were documented to include automation of stock entries, low-stock alerts, and supplier performance tracking.

■ **Grouping:** Ideas were categorized into three major sections — Stock Management, Expiry Monitoring, and Supplier Coordination.

■ **Action Planning:** The finalized plan focused on developing a digital dashboard that provides real-time inventory insights, tracks item usage, and generates automated alerts to improve operational efficiency.

Step-3: Idea Prioritization:

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Fig3: Image of steps to prevent user deletion.

Idea Prioritization:

Idea polarization helps break down complex projects into clear, focused components. In this project, the main goal is to prevent user deletion if the account is assigned to an active incident. This approach ensures that data integrity and accountability are maintained during critical workflows. By polarizing ideas, we can separate incident management processes from routine administrative tasks. It also makes it easier to identify which users require specific access rights and which step, from detection to restriction, becomes easier to plan and implement. Clear visual representations like diagrams and flowcharts can simplify communication. Overall, idea polarization strengthens project clarity and supports smooth execution.

Idea prioritization helped the team structure the project into clear, actionable components. The main focus areas were maintaining data accuracy, tracking critical stock items, and reducing human error in supply management.

Each step — from stock entry to expiry alerting — was defined with specific roles and responsibilities to ensure smooth execution. Visual tools such as dashboards and workflow diagrams made communication and tracking easier.

Overall, idea prioritization supported a well-organized approach to build a reliable and efficient Medical Inventory Management System that enhances hospital productivity and patient safety.

Reference: <https://www.mural.co/templates/brainstorm-and-idea-prioritization>