

Ideation Phase

Define the Problem Statements

Date	06 November 2025
Team ID	F529277D47452DB9E7447BD087E08E5E
Project Name	Medical Inventory Management
Maximum Marks	2 Marks

Problem Statement: Medical Inventory Management

Efficient management of medical inventory is crucial for ensuring uninterrupted healthcare services. However, many hospitals and clinics face significant challenges in tracking, maintaining, and replenishing medical supplies. The lack of a centralized and automated inventory system often leads to problems such as stockouts of critical medicines and equipment, overstocking of less-used items, expiration of drugs, inaccurate records, and inefficient resource utilization.

These issues not only increase operational costs but also compromise patient safety and service quality. Therefore, there is a need for a smart, automated **Medical Inventory Management System** that can monitor stock levels in real-time, predict future needs, generate alerts for low or expiring items, and streamline the procurement process.

Example :

Problem ID	Problem Description	Impact on Healthcare Facility
P1	Lack of real-time tracking of medicines and equipment.	Leads to delays in patient treatment and poor inventory visibility.

P2	Overstocking or stockouts due to manual inventory updates.	Results in wastage of expired items or unavailability of essential drugs.
P3	Inefficient record-keeping and data inaccuracies.	Causes confusion during audits and reduces staff efficiency.
P4	No alert system for low stock or expiring medicines.	Increases the risk of using expired products and disrupts supply chain flow.

Inventory management process challenges with solutions

This slide showcases challenges and solutions for inventory management that can help organization to avoid overstocking of supply and forecast the future need of items. It also showcases the results after the implementation of solutions

