

Ideation Phase

Define the Problem Statements

Date	01 November 2025
Team ID	NM2025TMID02866
Project Name	Medical Inventory Management
Maximum Marks	2 Marks

Customer Problem Statement :

Hospitals and medical facilities often face challenges in managing their medical inventory efficiently. Shortages or overstocking of essential medicines and equipment lead to operational inefficiencies, financial losses, and patient care risks. Manual tracking or outdated systems result in inaccurate stock levels, expired products, and delayed replenishment.

They need a centralized, automated system to monitor stock availability, update usage in real-time, and generate alerts for low or expiring items. This will enhance hospital efficiency, reduce waste, and ensure timely patient care.

Problem Statement (PS)	I am	I'm trying to	But	Because	Which makes me feel
PS-1	A Hospital Inventory Manager	Maintain accurate stock records	manual entry leads to errors	the system isn't automated	frustrated and uncertain about availability
PS-2	A Pharmacist	Dispense medicines quickly	stock data isn't updated in real-time	no link to central inventory	anxious and delayed in serving patients

Problem Statement PS 1:

As a hospital inventory manager, I am trying to maintain accurate and up-to-date records of medical supplies and medicines. However, manual entry and disconnected tracking systems lead to frequent errors, expired stock, and difficulty identifying shortages in time.

This makes me feel frustrated and worried about the reliability of supply information. I need an automated inventory management solution that can track stock usage, generate alerts, and ensure accuracy across departments.

Problem Statement PS 2:

As a pharmacist, I want to dispense medicines efficiently and confidently based on real-time stock data. However, the existing system lacks synchronization with the central inventory, causing delays and unavailability of critical drugs.

This makes me feel anxious and unable to provide timely service to patients. A real-time, connected inventory management system would streamline operations and ensure consistent medicine availability.

From Problem to Solution

