

# Project Design Phase

## Proposed Solution

Date: 08.11.2025

Team ID: NM2025TMID05637

Project Name: Medical Inventory Management System

Maximum Marks: 2 Marks

1. Problem Statement (Problem to be solved)	Hospitals and pharmacies face issues maintaining accurate records of medicine stock, expiry dates, and supplier details, leading to shortages, wastage, and expired medicines being dispensed.
2. Idea / Solution Description	Develop a Medical Inventory Management System that automatically tracks medicine stock, expiry dates, and generates alerts for low stock and near-expiry items. The system will allow administrators to add, update, and monitor items efficiently.
3. Novelty / Uniqueness	This system automates stock monitoring and expiry management, eliminating manual errors. It is easy to use, low-cost, and adaptable for small and large healthcare institutions.
4. Social Impact / Customer Satisfaction	Ensures timely availability of medicines, minimizes wastage, and enhances hospital efficiency, improving overall patient care and satisfaction.
5. Business Model (Revenue Model)	The solution can be sold as subscription-based software for hospitals and clinics or implemented as an internal management tool to reduce operational costs.
6. Scalability of the Solution	The system can be scaled to include equipment tracking, automatic supplier ordering, and integration with hospital

billing systems.

### **Solution Description:**

The Medical Inventory Management System provides a unified platform to handle all aspects of medical stock control. By maintaining real-time data, it reduces manual workload and prevents expired or missing stock issues. The system ensures operational efficiency through automated tracking, alerts, and report generation, improving healthcare quality and reliability.