

Project Design Phase

Proposed Solution

Date: 03.11.2025

Team ID: NM2025TMID00478

Project Name: Medical Inventory Management System

Maximum Marks: 2 Marks

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| 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 |

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| | billing systems. |
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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.