

# Project Design Phase-II

## Solution Requirements (Functional & Non-Functional)

**Date:** 2 November 2025

**Team ID:** 6D24F58C3BFCDC0B2754A4CE3927F280

**Project Name:** Medical Inventory Management System (Salesforce)

**Maximum Marks:** 4 Marks

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### Functional Requirements

The following are the **functional requirements** of the proposed **Medical Inventory Management System**, which define how the system should operate within the Salesforce platform.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Supplier Management	Add, edit, and remove supplier records with contact and performance details.
FR-2	Product Catalog Management	Register new medical products with SKU, batch number, expiry date, and quantity.
FR-3	Purchase Order Management	Create, approve, and track purchase orders linked to suppliers and products.
FR-4	Stock & Inventory Tracking	Record stock inflow/outflow, returns, and adjustments in real-time.
FR-5	Expiry Monitoring & Alerts	System auto-checks expiry dates and triggers alerts 30 days before expiry.
FR-6	Dashboard & Reports	Generate supplier performance reports, stock movement summaries, and expiry analytics.
FR-7	Automated Reorder Logic	Auto-generate reorder notifications when stock reaches threshold levels.
FR-8	User Role & Access Control	Assign permissions for Admin, Storekeeper, Pharmacist, and Procurement Officer roles.

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### Non-Functional Requirements

The **non-functional requirements** define system attributes such as performance, scalability, security, and reliability that ensure smooth and secure operation across all hospital departments.

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The interface should be intuitive and user-friendly for all hospital staff with minimal training.
NFR-2	Security	Only authorized users should access inventory modules; role-based permissions must be enforced.
NFR-3	Reliability	The system must maintain consistent performance even during high transaction volumes.
NFR-4	Performance	Data retrieval, expiry checks, and PO generation should execute within 3 seconds.
NFR-5	Availability	The application should maintain 99.9% uptime to ensure uninterrupted operations.
NFR-6	Scalability	The system should efficiently handle thousands of products, suppliers, and transaction records as data grows.
NFR-7	Maintainability	Admins should be able to configure workflows and rules easily through Salesforce without code changes.
NFR-8	Data Integrity	Ensure accuracy and consistency of product, supplier, and expiry data across modules.

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## Summary

The functional and non-functional requirements together define the blueprint for the **Medical Inventory Management System (Salesforce)**.

By combining automation, validation, and user access control, the system ensures accurate tracking of medical products, supplier performance, and stock levels — minimizing errors, improving efficiency, and strengthening compliance in healthcare inventory management.