Project Design Phase-5

Solution Requirements (Functional & Non-functional)

Date: 2nd November 2025

Project Name: Medical Inventory Management

Maximum Marks: 4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Inventory Item Management	Add, edit, and delete medical inventory items.
FR-1	Inventory Item Management	Categorize items by type (medicine, equipment, consumables).
FR-2	Stock Monitoring	Track available stock levels and set minimum thresholds.
FR-2	Stock Monitoring	Generate automatic low-stock alerts via email or notification.
FR-3	Item Request Workflow	Allow department users to raise item requests.
FR-3	Item Request Workflow	Enable managers to approve or reject requests.
FR-4	Stock Update Process	Automatically reduce stock after approval and issuance.

FR-5	Expiry Management	Track expiry dates and alert users before expiry.
FR-6	Reporting and Dashboards	Provide department-wise usage and stock-level reports.
FR-6	Reporting and Dashboards	Display key performance indicators in a graphical format.
FR-7	User Management and Access Control	Implement role-based access for Admin, Manager, and User.
FR-8	Data Integrity	Validate inputs and prevent duplicate entries in inventory records.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The interface should be user-friendly for quick access by medical staff.
NFR-2	Security	Only authorized users can view, edit, or issue inventory items.
NFR-3	Reliability	The system must consistently maintain accurate stock levels and prevent data loss.
NFR-4	Performance	All operations (request, approval, update) should

		execute within 2 seconds.
NFR-5	Availability	The system should be accessible 24/7 through Salesforce Cloud.
NFR-6	Scalability	System should support growing number of users, items, and transactions without lag.
NFR-7	Data Integrity	Ensure that duplicate or incomplete data cannot be saved.
NFR-8	Maintainability	System should allow easy updates to flows, triggers, and reports with minimal downtime.
NFR-9	Compliance	Adhere to healthcare data security and privacy standards.