Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	2 NOV 2025
Team ID	NM2025TMID02866
Project Name	Medical Inventory Management
Maximum Marks	4 Marks

Functional Requirements

Following are the functional requirements of the proposed Medical Inventory Management System.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Supplier Management	Add, edit, and delete supplier details
FR-2	Product Management	Create and update product records with stock and expiry details
FR-3	Purchase Order Management	Create purchase orders linked to suppliers
FR-4	Order Item Management	Add and calculate order items with quantities and prices
FR-5	Inventory Transactions	Track stock inflow/outflow and record transaction type
FR-6	Automation Logic	Auto-update Actual Delivery Date using Flow
FR-7	Order Cost Calculation	Automatically calculate Total Order Cost using Apex Trigger
FR-8	Validation Rule	Prevent invalid Expected Delivery Dates (more than 7 days gap)
FR-9	Reports & Dashboard	Generate supplier-wise and product-wise purchase reports
FR-10	User Profiles & Roles	Define roles for Inventory Manager and Purchase Manager with permissions

Non-Functional Requirements

Following are the non-functional requirements of the Medical Inventory Management System.

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	Interface designed in Salesforce Lightning App for ease of use.
NFR-2	Security	Role-based and object-level access control through Profiles and Permission Sets.
NFR-3	Reliability	Automated flows and triggers ensure accurate data updates and rule enforcement.
NFR-4	Performance	Efficient Flow and Apex Trigger execution to minimize processing time.
NFR-5	Availability	Hosted on Salesforce Cloud, ensuring 99.9% uptime.
NFR-6	Scalability	Multi-tenant Salesforce SaaS platform supports large data and user expansion.
NFR-7	Maintainability	Modular design allows easy addition of new fields and rules without code modification.
NFR-8	Data Integrity	Ensures consistency of purchase and inventory records using validations and triggers.
NFR-9	Auditability	Tracks all transactions and modifications for accountability.