Project Design Phase-II

Solution Requirements

(Functional & Non-Functional)

Date	0 1.11.2025
Team ID	NM2025TMID04299
Project Name	Medical Inventory Management
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed Salesforce-based Medical Inventory System.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Product Management	Create Product records with fields like Product Name, Unit Price, Stock Level, and Expiry Date.
		Update and delete product details as per inventory needs.
FR-2	Supplier Management	Add new suppliers with name, contact, phone, and email details.
		Link suppliers to purchase orders.
FR-3	Purchase Order Management	Create Purchase Orders and associate them with Suppliers and Products.
		Include Expected Delivery Date, Order Count, and Total Order Cost.
FR-4	Order Item Management	Maintain individual order items under each purchase order.
		Auto-calculate amount = Quantity × Unit Price.
FR-5	Inventory Transaction	Record incoming and outgoing inventory as Receipt, Issue, or Adjustment.
		Update current stock levels accordingly.
FR-6	Automation & Workflow	Auto-update Actual Delivery Date using Flow (Order Date + 3 Days).
		Use Apex Trigger to update Total Order Cost in Purchase Order.

FR-7	Validation Rules	Ensure Expected Delivery Date does not exceed 7 days after Order Date.
FR-8	Reports & Dashboards	Generate summary reports showing Purchase Orders grouped by Supplier.
		Display total order costs in dashboard visualizations.

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 easy for non-technical users using Salesforce Lightning.
NFR-2	Security	Access control through Profiles, Roles, and Permission Sets. Only authorized users can modify records.
NFR-3	Reliability	All Flows, Triggers, and Roll-Up Summary Fields should execute without failure.
NFR-4	Performance	System operations (record creation, automation, reports) should execute within 2–3 seconds.
NFR-5	Availability	The Salesforce app should be accessible anytime through the cloud platform.
NFR-6	Scalability	System should support large numbers of Products, Suppliers, and Orders as data grows.