PROJECT DESIGN PHASE-II

Solution Requirements (Functional & Non-functional)

DATE	01/11/2025
NM ID	NM2025TMID08826
PROJECT NAME	MEDICAL INVENTORY MANAGEMENT
MAXIMUM MARKS	4MARKS

Functional Requirements

Functional Requirements (Medical Inventory Management System)

FR-1: Inventory Registration

- Register products via form input
- Register suppliers via lookup
- Register purchase orders via related list

FR-2: Expiry Validation

- Validate expiry date during product entry
- Block expired items from usage

FR-3: Inventory Transaction

- Log item movement between departments
- Track quantity updates and usage

FR-4: Alert System

- Trigger alerts for low stock
- Trigger alerts for near-expiry items

FR-5: Safe Usage Enforcement

- Prevent usage of expired or depleted items
- Allow usage only if quantity and expiry are valid

FR-6: Reporting & Monitoring

- Generate reports on supplier performance
- Visualize inventory status via dashboards

Non-functional Requirements

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The interface should be intuitive for admins and inventory managers.
NFR-2	Security	Only authorized users can modify or delete inventory records.
NFR-3	Reliability	The system must consistently validate expiry and quantity before usage.
NFR-4	Performance	Alerts and validations should trigger instantly without delay.
NFR-5	Availability	The system should be accessible during all operational hours.
NFR-6	Scalability	The system should handle growing inventory and supplier data without performance loss.