Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	01 NOVEMBER 2025
Team ID	NM2025TMID07834
Project Name	Medical Inventory Management System
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	Supplier Management	Add Supplier Details Edit Supplier Details Remove Supplier Details
FR-2	Product Management	Add Product Details Update Stock Levels Store Expiry Dates
FR-3	Purchase Order Handling	Create Purchase Orders Update Purchase Orders Link Product and Suppliers
FR-4	Expiry Monitoring	System Checks expiry of Products Alert inventory manager if expiry is near
FR-5	Stock Validation	System validates product availability before order Warning if product out of stock
FR-6	Reporting	Generate Supplier-wise Reports Generate Stock/Expiry Summary Generate Purchase Order Reports

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The system interface must be simple for users such as admins and inventory managers.
NFR-2	**Security**	Only authorized users can manage supplier, product, and purchase order records.
NFR-3	**Reliability**	The system must accurately track stock status and expiry details at all times.
NFR-4	**Performance**	The system must process product/stock validation quickly without delay.
NFR-5	**Availability**	The system should be accessible whenever users need to manage inventory.
NFR-6	**Scalability**	The system should support additional suppliers, products, and purchase orders as demand increases without performance loss.