

Project Design Phase – II

Solution Requirements (Functional & Non-functional)

Date: 03/11/2025

Team ID: NM2025TMID05036

Project Name: Medical Inventory Management

Maximum Marks: 4 Marks

Functional Requirements:

The following are the functional requirements of the proposed Medical Inventory Management System.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Medicine Management	Add, update, and delete medicine details including name, batch number, expiry date, and quantity.
FR-2	Supplier Management	Add supplier details, purchase date, and link medicines with suppliers.
FR-3	Stock Monitoring	Display current stock levels and send alerts for low stock.
FR-4	Expiry Alert System	Automatically identify and alert users for medicines nearing expiry.
FR-5	Report Generation	Generate monthly reports on stock, purchases, and expired items.
FR-6	Authentication	Admin login with secure credentials for system access and control.

Non-Functional Requirements:

The following are the non-functional requirements of the proposed solution.

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The interface should be simple and user-friendly for both admins and pharmacists.
NFR-2	Security	Only authorized users can access or modify inventory data.
NFR-3	Reliability	The system should always display accurate stock and expiry information.
NFR-4	Performance	Data operations (add, update, alert) should be processed quickly without lag.

NFR No.	Non-Functional Requirement	Description
NFR-5	Availability	The system should be available 24/7 for hospital and pharmacy operations.
NFR-6	Scalability	The system should handle growing numbers of medicines, suppliers, and users efficiently.