

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. |