

## Project Design Phase-II

### Solution Requirements (Functional & Non-functional)

Date	01 NOVEMBER 2025
Team ID	NM2025TMID04457
Project Name	Medical Inventory Management

#### Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Product Registration	Admin can register new medical items such as medicines, equipment, and consumables.
FR-2	Stock Management	System allows users to add, update, or remove stock quantities. Low-stock alerts are generated automatically.
FR-3	Supplier Management	Admin can register suppliers and link them to medical products.
FR-4	Order Creation	User can create purchase or issue orders for products.
FR-5	Inventory Validation	System validates available stock before confirming any issue order.
FR-6	Expiry Tracking	System automatically flags and notifies items nearing expiry.

#### Non-Functional Requirements:

NFR No.	Non-Functional Requirement	Description
NFR-1	Performance	The system should handle up to 10,000 inventory records efficiently.
NFR-2	Reliability	Data must remain consistent even after failed transactions.
NFR-3	Security	Only authorized users can access or modify sensitive inventory data.
NFR-4	Usability	User interface must be intuitive for hospital staff with minimal training.
NFR-5	Scalability	The system should support multiple departments and hospitals in future.