

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	30 october 2025
Team ID	F6ECDDC2BAA51CF97204E983A5BEFB35
Project Name	Medical Inventory Management
Maximum Marks	4 Marks

Functional Requirements (FR) – Medical Inventory Management System

FR No.	Functional Requirement (Epic)	Sub-Requirements (Story / Sub-Task)
FR-1	User Registration	<ul style="list-style-type: none"> - Registration through standard form - Registration through Gmail (OAuth) - Registration through LinkedIn (OAuth)
FR-2	User Confirmation	<ul style="list-style-type: none"> - Account confirmation via email link - Account confirmation via OTP
FR-3	User Deletion	<ul style="list-style-type: none"> - Admin can request deletion of a user
FR-4	Assignment Check Before Deletion	<ul style="list-style-type: none"> - System automatically checks if the user is assigned to any medical inventory task, purchase record, incident, or workflow
FR-5	Deletion Block	<ul style="list-style-type: none"> - If the user is assigned to any incident, task, or unpaid process, the system must block deletion and display a warning message
FR-6	Safe Deletion	<ul style="list-style-type: none"> - If the user has no active assignments, the system will allow safe user deletion without affecting inventory data integrity

Non-Functional Requirements (NFR) – Medical Inventory Management System

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The interface should be intuitive and easy for the admin to navigate, with clear warning messages and confirmation prompts.
NFR-2	Security	Only authorized admin users should be able to delete users. Secure authentication protocols (OAuth, email/OTP verification) are required.
NFR-3	Reliability	The system must always perform assignment checks accurately before deletion to prevent data inconsistency in medical inventory logs.
NFR-4	Performance	Assignment check and deletion actions must process quickly (<2 seconds under normal load).
NFR-5	Availability	The system should be available 24/7 for user and user-management operations, especially for critical medical inventory tasks.
NFR-6	Scalability	The system should scale efficiently to support a growing number of users, inventory items, suppliers, and incidents without performance degradation.