

# Requirement Analysis Phase

**Project Title:** Medical Inventory Management System

**Team ID:** NM2025TMID0325

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## 4.1 Objective

To document all functional and non-functional requirements of the Medical Inventory Management System and define the technical environment.

## 4.2 Functional Requirements

The system must:

- Allow CRUD operations for suppliers, products, and orders.
- Track product expiry and alert users.
- Generate analytical reports and dashboards.
- Restrict unauthorized access using roles and profiles.
- Automate stock updates upon order approval.

## 4.3 Non-Functional Requirements

- **Performance:** Smooth functioning under heavy loads.
- **Security:** Role-based access control.
- **Scalability:** Support for large datasets.
- **Availability:** Cloud-based 24/7 access.
- **Usability:** Intuitive and responsive design.

## 4.4 Hardware and Software Requirements

- **Software:** Salesforce Developer Edition
- **Hardware:** Internet-enabled computer
- **Browser:** Google Chrome or Microsoft Edge

## 4.5 Expected Outcome

A comprehensive and validated list of requirements to guide development and testing phases effectively.

## **4.6 Conclusion**

The requirement analysis phase provided a clear and structured understanding of the system's goals and expectations. By identifying all critical needs early, it reduced development risks and ensured that the design aligns perfectly with user demands and organizational objectives.