

Project Design Phase-II
Data Flow Diagram & User Stories

Team ID	NM2025TMID04457
Project Name	Medical Inventory Management
Date	1 NOV 2025

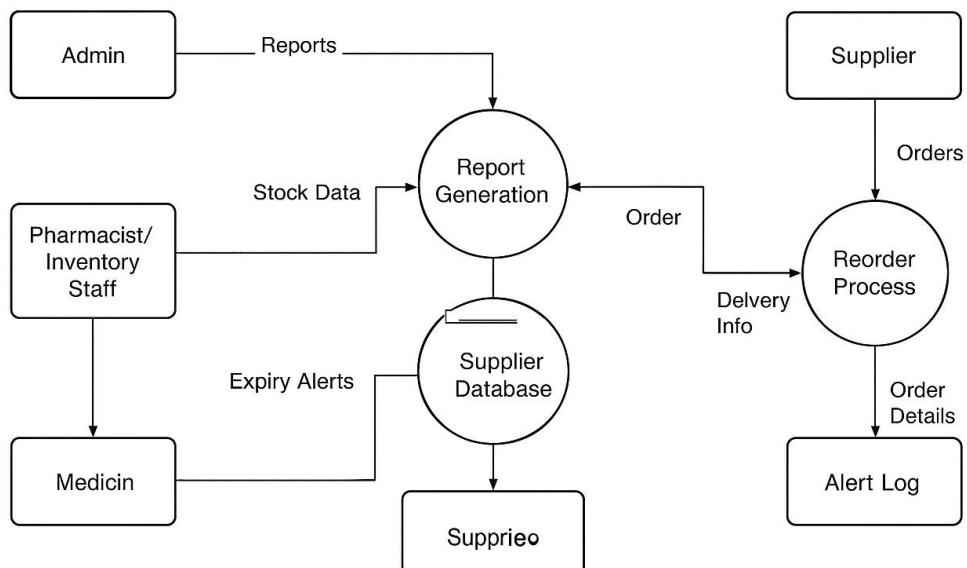
Data Flow Diagrams:

A **Data Flow Diagram (DFD)** represents the movement of information within the medical inventory system. It illustrates how data is collected, processed, and distributed between hospitals, pharmacies, and suppliers. This helps visualize how medicines are tracked, restocked, and monitored.

In the **Medical Inventory Management System**, the DFD illustrates interactions between the **Admin**, **Pharmacy Staff**, **Supplier**, and **Database**. The system records medicine details, checks stock availability, generates expiry alerts, and triggers supplier orders when stock levels drop below the threshold.

This ensures real-time tracking, efficient supplier communication, and minimal medicine wastage.

Data Flow Diagram
Medical Inventory Management System



User Stories

User stories describe what different users expect from the Medical Inventory Management System in simple, goal-focused language. These ensure efficient tracking, restocking, and alert generation for medicines and medical supplies.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Administrator	User & Stock Management	USN-1	As an admin, I want to add, update, and delete medical stock records so that inventory stays accurate.	System should allow CRUD operations on medicines and update the stock database instantly.	High	Sprint-1
Pharmacist	Stock Monitoring	USN-2	As a pharmacist, I want to view available medicines and quantities to know what items are in stock.	Dashboard should display all medicine details, including quantity, expiry date, and supplier info.	High	Sprint-1
System (Auto-check)	Expiry Validation	USN-3	As a system, I must automatically check for medicines nearing expiry and notify the user.	System should generate alerts when expiry date is within 30 days.	High	Sprint-2
Store Manager	Supplier Management	USN-4	As a store manager, I want to manage supplier details and purchase records to ensure timely restocking.	System should maintain supplier details and record all purchase transactions.	Medium	Sprint-2
Inventory Staff	Alert Notification	USN-5	As inventory staff, I want to receive alerts when stock levels are low so that I can reorder items.	System should trigger low-stock alerts when quantity falls below threshold.	High	Sprint-2
Admin	Reporting & Analytics	USN-6	As an admin, I want to generate inventory and usage reports to analyze trends.	System should generate downloadable reports (PDF/Excel) for monthly analysis.	Medium	Sprint-3