

Project Design Phase – II

Data Flow Diagram & User Stories

Date: 03/11/2025

Team ID: NM2025TMID05036

Project Name: Medical Inventory Management

Maximum Marks: 4 Marks

Data Flow Diagrams:

A **Data Flow Diagram (DFD)** is a graphical representation of how data moves through a system. It helps in understanding inputs, processes, and outputs, showing how data is stored, transferred, and transformed.

In the project “**Medical Inventory Management**”, the DFD illustrates how medicine information flows between the admin, database, and system modules. The process begins with the admin adding or updating medicine details. The system stores this data in the inventory database and continuously checks for expiry and low stock. When stock levels drop or medicines are near expiry, the system generates alerts and updates reports automatically.

This DFD highlights the smooth flow of data between users, the system, and storage components — ensuring real-time monitoring and error-free management of medical supplies.

Example (can be drawn for submission):

- **Level 0 DFD:** Shows Admin → System → Inventory Database → Alert Module.
- **Level 1 DFD:** Expands into processes like *Add Medicine*, *Update Stock*, *Generate Alert*, and *Report Generation*.

User Stories:

User stories describe what users expect from the system in simple, functional terms. In this project, user stories ensure the system manages stock accurately and automates key inventory operations.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Admin	Medicine Management	USN-1	As an admin, I can add, update, or remove medicine records with expiry and stock details.	The system should store all details accurately and confirm successful entry.	High	Sprint-1
Pharmacist	Stock Monitoring	USN-2	As a pharmacist, I can view real-time medicine stock and	Alerts should trigger automatically when stock falls below the threshold.	High	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
System (Auto Process)	Expiry Alert	USN-3	receive alerts for low stock.			
			As a system, I should send notifications for medicines nearing expiry.	Notifications must be sent 7 days before expiry with accurate details.	High	Sprint-2
Manager	Report Generation	USN-4	As a manager, I can generate monthly stock and expiry reports.	Reports should be downloadable and reflect current database records.	Medium	Sprint-3