

## Project Design Phase-II

### Data Flow Diagram & User Stories

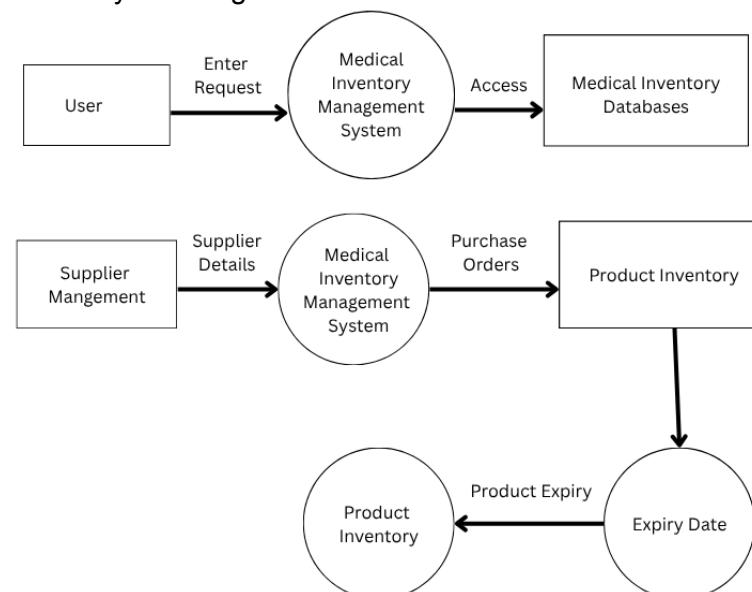
Date	01 NOVEMBER 2025
Team ID	NM2025TMID07834
Project Name	Medical Inventory Management System
Maximum Marks	4 Marks

#### Data Flow Diagrams:

A Data Flow Diagram (DFD) is a visual representation of how information flows within a system. It illustrates how data enters and leaves the system, how it is processed, and where it is stored. A clear DFD helps stakeholders understand logical system behavior without focusing on technical implementation details.

In the project “**Medical Inventory Management System**,” Data Flow Diagrams (DFDs) illustrate how supplier, product, and purchase order information is processed. The DFD shows interactions among the **Administrator, Supplier, Inventory Manager, the system, and internal databases** to validate purchase orders, update product quantity, and monitor expiry dates. If a product is expired or out of stock, the system notifies the Inventory Manager to take necessary action, ensuring safe and efficient medical inventory handling.

#### Data flow Diagram:



## User Stories:

This system supports a structured approach to handling functional requirements. Data Flow Diagrams (DFDs) illustrate how information moves through the system, such as requests for validating or processing supplier, product, or purchase order details. They show the interaction between users and the system to validate stock, expiry, and transaction-related information.

User stories are defined to ensure each functional requirement is goal-oriented and user-centric.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Administrator	Supplier & Product Management	USN-1	As an admin, I want to register suppliers and products so that inventory can be maintained accurately	The system should allow deletion only if the user is not assigned to any incident.	System should allow supplier and product registration with required fields.	Sprint-1
System	Validation before Purchase Processing	USN-2	As a system i must verify stock and expiry status of products before approving purchase requests	Purchase should proceed only if product is in stock and not expired..	High	Sprint-1
Inventory Manager	Alert Notification	USN-3	As an inventory manager, I want alerts if expiring items are found so I can take timely action	Alerts should be displayed for items nearing expiry..	Medium	Sprint-2