
Data Flow Diagram & User Stories

Date	Team ID	Project Name	Maximum Marks
10 NOV 2025	NM2025TMID02280	Medical Inventory Management System (Salesforce)	14 Marks

Data Flow Diagrams:

A **Data Flow Diagram (DFD)** provides a graphical representation of how data moves within the **Medical Inventory Management System**. It shows how data enters, is processed, and stored in the system, and how outputs are generated.

In this project, “**Medical Inventory Management System**”, the DFD illustrates how medical items are added, updated, issued, and tracked within a Salesforce environment. It represents the flow of information between the **Admin**, **Inventory Database**, and **Users (Doctors, Pharmacists)**. The system validates item stock levels before processing requests to ensure that medical supplies are managed efficiently and data integrity is maintained.

Example:

Flow Explanation:

1. Admin logs into Salesforce to manage medical inventory.
2. Admin adds or updates details of medical items.
3. Doctor/Pharmacist requests an item from inventory.
4. System checks stock availability in real time.
5. If the item is available, issue is processed and stock is updated.
6. If the item is out of stock, system triggers a restock alert to the admin.

(In the diagram: Entities → Processes → Data Stores → Data Flows)

- **External Entities:** Admin, Doctor, Pharmacist
- **Processes:** Add Item, Issue Item, Check Stock, Update Inventory
- **Data Stores:** Inventory Database, User Database
- **Data Flows:** Request Details, Inventory Updates, Alerts

(Diagram example similar to the original — one process flow box diagram showing data movement between entities and database.)

User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Administrator	Inventory Management	USN-1	As an admin, I want to add and update medical inventory items so that stock details remain accurate.	System should allow item creation, editing, and deletion with mandatory fields validated.	High	Sprint-1
Pharmacist	Item Request	USN-2	As a pharmacist, I want to request items from the inventory for patient use.	System should validate availability and process issue requests automatically.	High	Sprint-1
System (Auto-check)	Stock Validation	USN-3	As a system, I must check the stock quantity before processing issue requests.	System should block issue if stock < threshold and trigger restock alert.	High	Sprint-2
Administrator	Restock Alert	USN-4	As an admin, I want to receive alerts when medical item	System should send a Salesforce notification or	Medium	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Doctor	Usage Tracking	USN-5	quantities fall below the minimum level.	email for restocking.	Medium	Sprint-3
			As a doctor, I want to view the availability and usage log of medical items.	System should display accurate and updated inventory usage reports.		
