Project Design Phase-II
Data Flow Diagram & User Stories

Date	2 NOV 2025
Team ID	NM2025TMID02866
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 — showing where it comes from, how it is processed, and where it goes.
In the **Medical Inventory Management System**, the DFD illustrates how supplier details, purchase orders, and product information flow between users and the Salesforce system.

  The system automates product tracking, purchase order processing, and inventory updates, while ensuring data accuracy and preventing expired or invalid entries.

Context Level (Level 0) DFD

- **Actors:** Administrator, Purchase Manager, Inventory Manager
- **Process:** Medical Inventory Management System
- **Data Stores:** Supplier Records, Product Database, Purchase Orders, Inventory Transactions
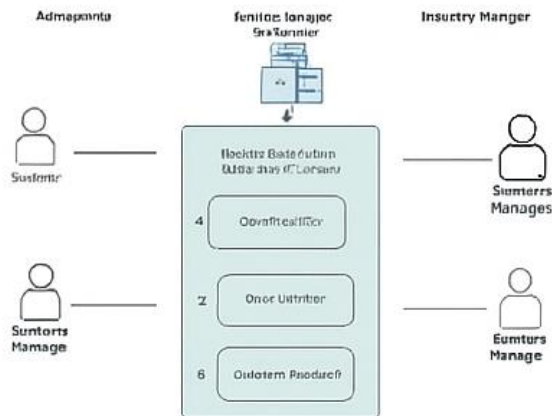
Data Flow Overview:

- Admin and managers input supplier, product, and purchase order details.
- The system validates and stores the data.
- Flows and triggers automatically update stock levels and total costs.
- Reports and dashboards display consolidated summaries.

Data Flow Diagram & User Stories

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Example:

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User scories descro what management of the proposed Medical Inventory Managemeni System.

Example: Medical Inventory Management System

User Stories:

User stories derive what elfficient user serus fromte system in s émptè, "poal fókcused "iänrysys In this project, they ensure efficient management of medical inventory, *purchase orders*.

User' Type	Functional Requlrement	User Story / Task	Priority	Release
FR-1	Supplier Management	As an adn'in, i wäntl to čreatel udate l suppiier detetalis '	High	Spmi1
USN-2	Purchase Order Management	As a system manager, I want to create purchase orders and track their delivery.	High	Spmi1
USN-3	Inventory Monitoring	Orders must store supplier details, order date. and total cost.	High	Spmi2
System In Lse Wotormem	System (Flow Automation)	The system should display current stock and expiry status.	High	Spim2

(Include a diagram like the example you showed earler — showing arrows between Admin, System, Supplier DB, Product DB, Purchase Order DB, and Dashboard.)

User Stories

User Stories describe what each user expects the system to do in simple, goal-focused terms. In this project, they ensure efficient management of medical inventory, purchase orders, and suppliers using Salesforce automation.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Administrator	Supplier Management	USN-1	As an admin, I want to create and update supplier details so that accurate vendor data is maintained.	Supplier records must be saved and searchable through Salesforce tabs.	High	Sprint-1
Purchase Manager	Purchase Order Management	USN-2	As a purchase manager, I want to create purchase orders and track their delivery.	Orders must store supplier details, order date, and total cost.	High	Sprint-1
Inventory Manager	Inventory Monitoring	USN-3	As an inventory manager, I want to track stock levels and product expiry dates.	The system should display current stock and expiry status.	High	Sprint-2
System (Flow Automation)	Delivery Update Flow	USN-4	As a system, I want to automatically update Actual Delivery Date based on Order Date.	Flows should correctly update delivery date (+3 days) upon order creation.	Medium	Sprint-2
System (Trigger Automation)	Order Total Calculation	USN-5	As a system, I want to calculate Total Order Cost whenever order items are added or updated.	Trigger must automatically update the total cost in Purchase Order.	High	Sprint-2
Administrator	Reporting & Dashboard	USN-6	As an admin, I want to view summarized reports for purchase orders by supplier.	The dashboard must show visual reports for performance tracking.	Medium	Sprint-3