

Data Flow Diagram & User Stories

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Team ID	LTVIP2025TMID30494
Project Name	Medical Inventory Management

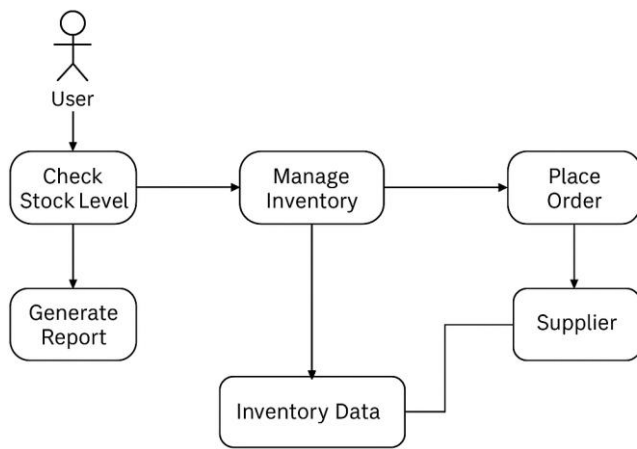
Data Flow Overview

The system facilitates seamless interaction between hospital departments, suppliers, and the Salesforce platform to manage stock efficiently and reduce expired product usage.

Key Entities:

- Supplier
- Product
- Purchase Order
- Order Item
- Inventory Transaction
- Users (Inventory Manager, Purchase Manager)

Process Flows



Medical Inventory Management

Process 1 – Supplier Setup & Product Entry

- **Input:** Supplier and Product data
- **Flow:** Supplier and product records created → Mapped for future POs
- **Salesforce Action:** Lookup relationships established, fields validated

Process 2 – Purchase Order Creation

- **Input:** Low stock alert, user initiation
- **Flow:** PO record created → Add Order Items → Roll-up total cost
- **Automation:** Trigger calculates total amount → Flow to log Expected/Actual delivery dates

Process 3 – Inventory Update on Delivery

- **Input:** Product delivery data
- **Flow:** Actual Delivery Date updated via Flow → Inventory Transaction created
- **Formula:** Stock levels recalculated

Process 4 – Expiry Monitoring & Alerts

- **Scheduled Flow:** Checks for upcoming expiry dates
- **Action:** System sends expiry warnings to Inventory Manager

Process 5 – Reporting & Analysis

- **Input:** Inventory usage and PO data
- **Output:** Reports on supplier performance, order history, and product health
- **Salesforce Components:** Summary and matrix reports + dashboard visualizations

User Stories

Inventory Manager Stories

- *As an Inventory Manager, I want expiry alerts so I never use expired medicine.*
 - *Acceptance:* Automated alerts for products nearing expiry.
- *As an Inventory Manager, I want a real-time dashboard of stock levels.*
 - *Acceptance:* Visual dashboard shows live stock levels and low-stock warnings.
- *As an Inventory Manager, I want to log deliveries quickly.*
 - *Acceptance:* Actual Delivery Date auto-populated upon delivery update.

Purchase Manager Stories

- *As a Purchase Manager*, I want to view supplier performance for better decision-making.
 - *Acceptance*: Reports show delivery timelines, order costs, and contact info.
- *As a Purchase Manager*, I want to create and approve POs efficiently.
 - *Acceptance*: Form-based PO creation with roll-up totals and approval status.
- *As a Purchase Manager*, I need to access all order history in one place.
 - *Acceptance*: Complete Purchase Details Report lists all POs and items.