

Project Design Phase-II

Data Flow Diagram & User Stories

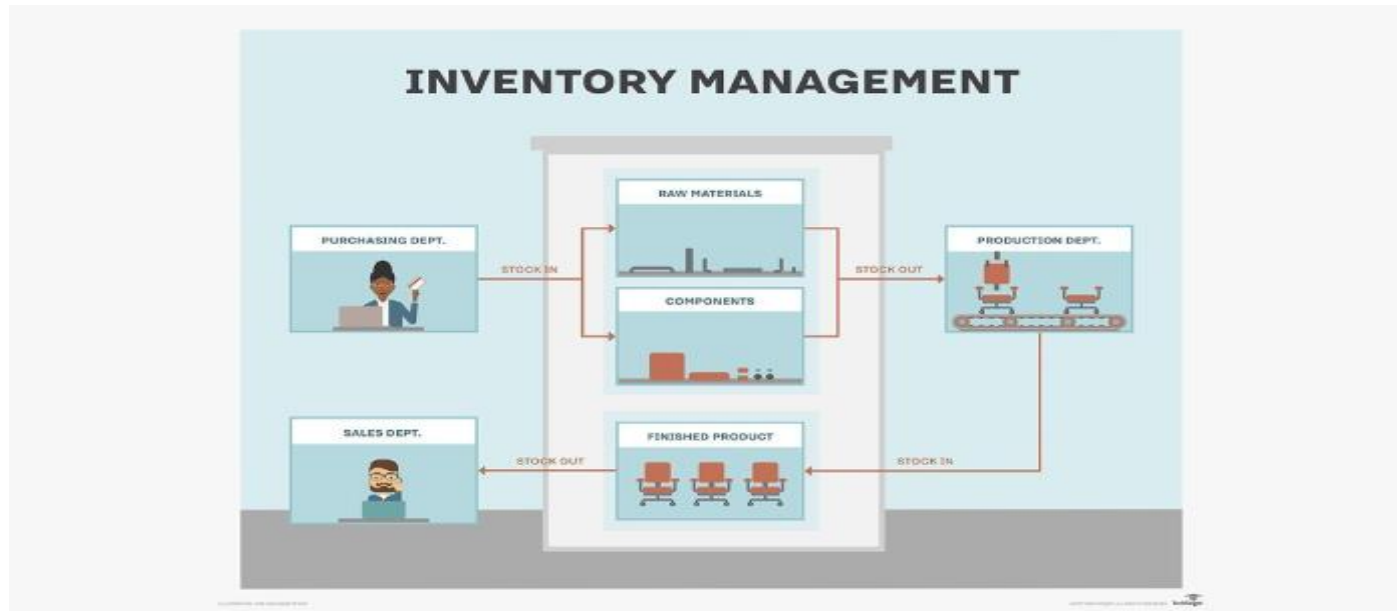
Date	30 october 2025
Team ID	F6ECDDC2BAA51CF97204E983A5BEFB35
Project Name	Medical Inventory Management
Maximum Marks	4 Marks

Data Flow Diagrams (DFD) for Medical Inventory Management

A Data Flow Diagram (DFD) is a graphical representation used to visualize how data moves through a system. It highlights how information is received, processed, stored, and output, providing a clear understanding of system functionality without focusing on technical implementation details. In a medical inventory management system, DFDs help illustrate how inventory data flows between users, the system, and databases to ensure smooth and accurate tracking of medical supplies.

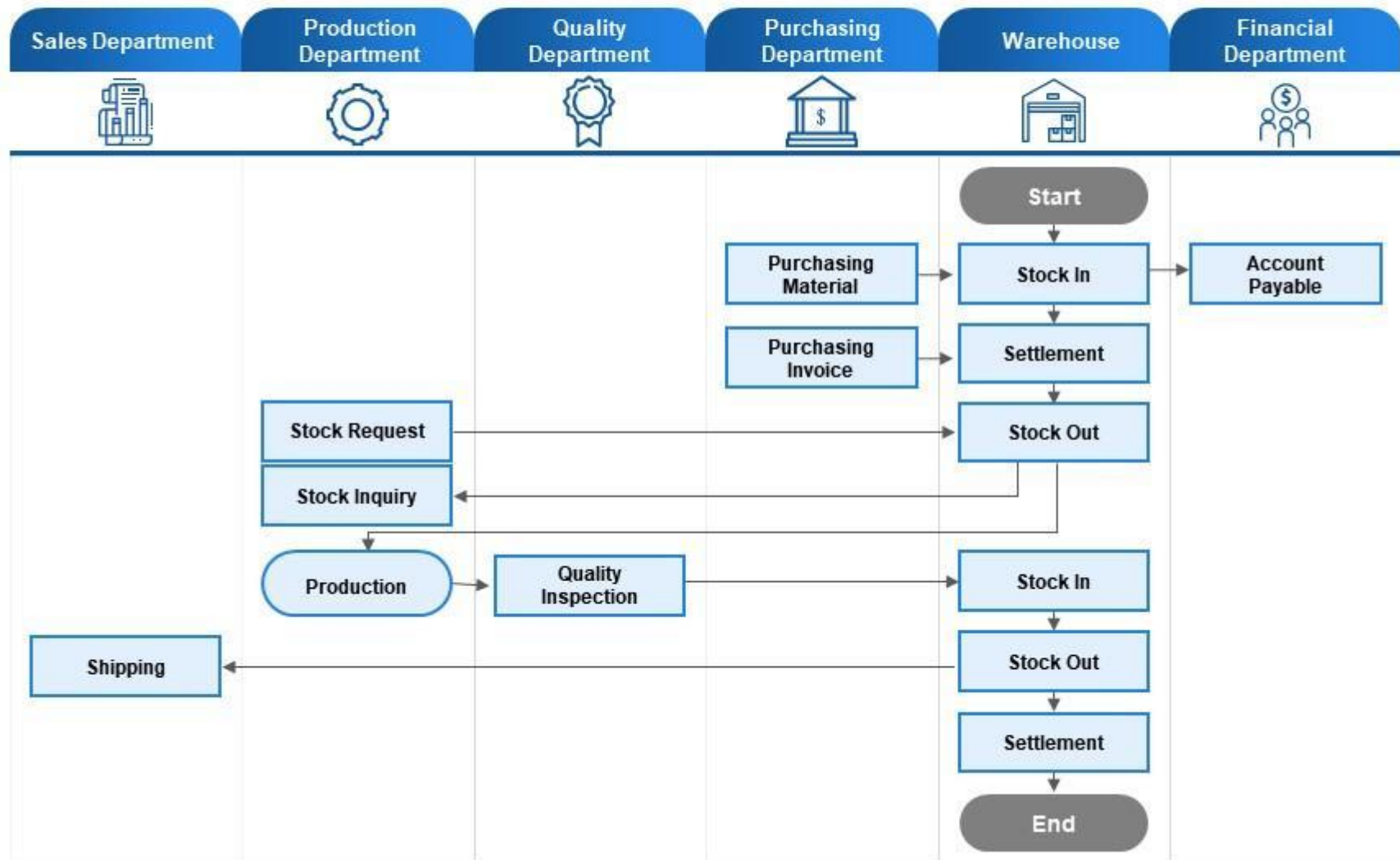
In the **Medical Inventory Management System**, the DFD represents how different actors like pharmacists, inventory managers, and system administrators interact with the system to manage stock levels, purchase orders, and item usage. When an item is added, issued, or updated, the system processes the request and records it in the inventory database. If stock levels fall below the predefined threshold, the system triggers a reorder notification to ensure continuous availability of critical medical supplies. This streamlined flow of information maintains real-time accuracy, prevents stockouts, and reduces wastage by enabling proper expiration tracking and timely replenishment. The DFD ensures transparency in the workflow and supports efficient hospital or pharmacy operations by safeguarding the integrity and reliability of medical inventory data.

Example:



Process Flow Chart of Inventory Management

This slide is 100% editable. Adapt it to your need and capture your audience's attention.



User Stories:

User stories describe what different users expect from the medical inventory system in simple, goal-based language. In this project, they ensure that medical items cannot be deleted if they are assigned to a patient or procedure, thereby protecting treatment data and maintaining accurate inventory records.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Inventory Admin	Medical Item Management	USN-1	As an inventory admin, I want to delete a medical item from the system.	The system should allow deletion only if the item is not assigned to any patient or medical procedure.	High	Sprint-1
System (Auto Check)	Validation Before Deletion	USN-2	As a system, I must check if the medical item is linked to any patient or procedure before processing a delete request.	Deletion proceeds only if no assignment exists; otherwise, it must be blocked.	High	Sprint-1
Pharmacist / Store Manager	Alert Notification	USN-3	As a pharmacist/medical store manager, I want to receive an alert if an item assigned to a patient or procedure is requested for deletion.	System shows a warning or alert indicating the item is in use before deletion attempt.	Medium	Sprint-2