Project Design Phase-II

Data Flow Diagram & User Stories

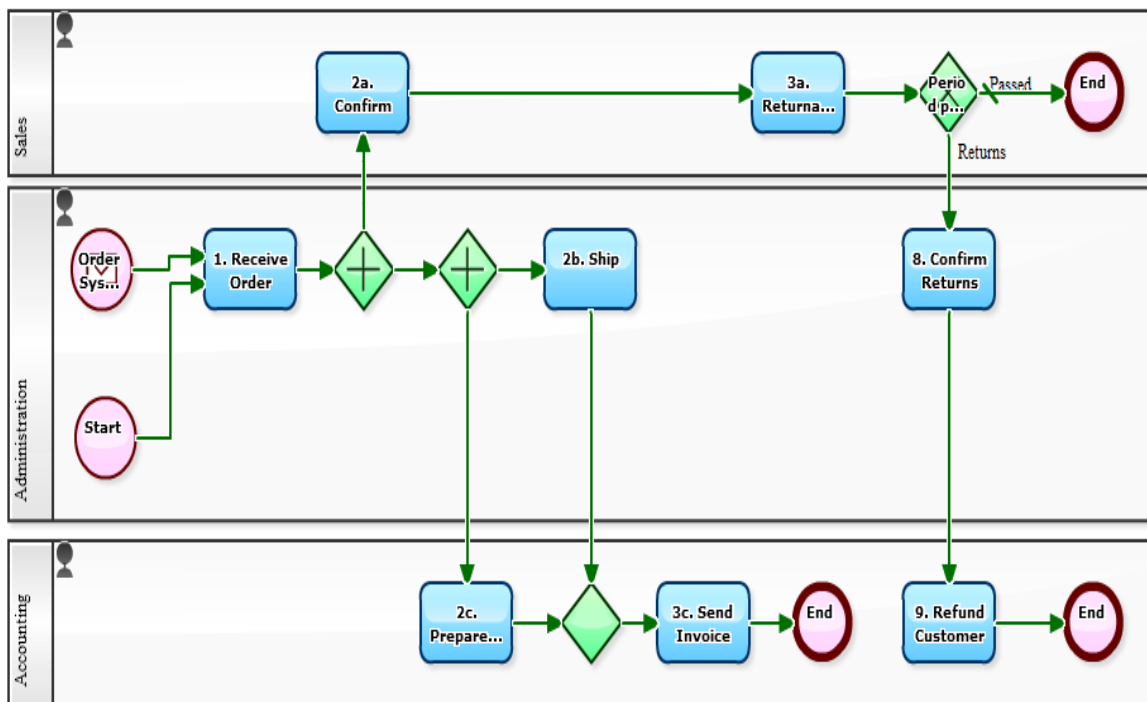| Date	1 NOVEMBER 2025
Team ID	NM2025TMID04224
Project Name	Medical Inventory Management
Project Name	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) represents the flow of information within a system.
It shows:

- How data enters the system

- How it is processed

- Where it is stored

- How it moves between processes and users

In the **Medical Inventory Management System**, the DFD illustrates how data (medicine details, stock updates, expiry details, billing data, alerts) flows between the **admin**, **pharmacist**, **system modules**, and **inventory database**.

Below is the DFD description in standard format.

Example:

User Stories:

User Type	Functional Requirement (Epic)	**User Story Number**	User Story / Task	Acceptance criteria	Priority	Release
Admin	Inventory Management	USN-1	As an admin, I want to add and update medicines in the inventory so that the stock remains accurate.	• System should allow adding new medicines • System should allow editing quantity & expiry details • Data must be saved in the inventory database	High	Sprint-1
Pharmacist	Stock Monitoring	USN-2	As a pharmacist, I want to receive alerts when stock is low so I can reorder medicines in time.	• System must show a low-stock alert • Alert threshold must be configurable • Stock list must auto-update after transactions	High	Sprint-1
System (Auto-check)	Expiry Monitoring	USN-3	As a system, I must automatically check expiry dates and generate alerts for medicines nearing expiry.	• Expiry checking should run automatically • Alerts must display medicines expiring within X days • Expired medicines	High	Sprint-2

				must be highlighted		
Pharmacist	Billing & Stock Update	USN-4	As a pharmacist, I want stock to reduce automatically when I issue medicines to a patient.	• Stock reduces instantly after billing • Transaction is stored in Billing DB • System shows "Item Issued Successfully"	Medium	Sprint-2
Admin	Reporting	USN-5	As an admin, I want to generate reports to understand stock usage, expiry details, and daily medicine issues.	• System must generate PDF/Excel reports • Report should include stock, expiry & issue log • Admin can download or print	Medium	Sprint-3