

## Project Design Phase-II

### Data Flow Diagram & User Stories

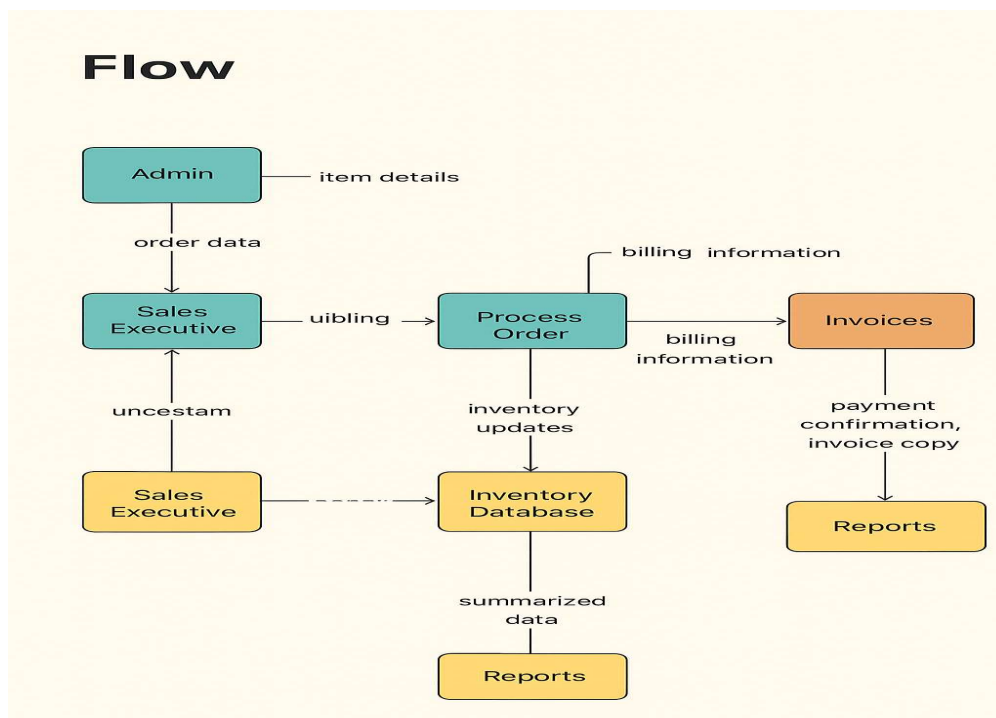
Date	01 Nov 2025
Team Id	NM2025TMID04501
Project Name	CRM Application for Jewel Management - (Developer)
Maximum Marks	4 Marks

#### Data Flow Diagrams (DFD):

A Data Flow Diagram (DFD) is a graphical representation that depicts how information moves through a system — showing the flow of data, the processes that transform it, and where it is stored.

In the Jewel Inventory System, the DFD illustrates how data related to jewellery items, customers, and transactions flows between different entities such as the Admin, Sales Executive, and System Database. It ensures that every jewellery item's lifecycle — from addition to sale — is accurately tracked and recorded.

The DFD highlights the interaction between users and the system during activities like adding new stock, updating existing inventory, processing sales, and generating reports.



## User Stories:

User stories describe what different types of users need from the Jewel Inventory System in simple, goal-focused language. They help ensure that the system meets all operational requirements — from managing jewellery stock to processing sales and generating reports.

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, edit, or delete jewellery items so that the inventory stays updated.	The system should allow the admin to manage item records with validation for duplicate entries.	High	Sprint-1
Administrator	User Management	USN-2	As an admin, I want to assign roles (Admin/Sales Executive) to users for controlled system access.	The system should allow role-based access and restrict unauthorized actions.	Medium	Sprint-2
Sales Executive	Sales Transaction	USN-3	As a sales executive, I want to record jewellery sales and generate customer invoices.	The system should process transactions, update stock, and produce invoices automatically.	High	Sprint-1
Sales Executive	Customer Management	USN-4	As a sales executive, I want to view and update customer details for future purchases.	The system should store and retrieve accurate customer data.	Medium	Sprint-2
System (Auto-Update)	Stock Update Automation	USN-5	As a system, I must automatically reduce stock quantity after each successful sale.	Inventory should reflect real-time stock levels immediately after transaction confirmation.	High	Sprint-1
System (Auto-Alert)	Low Stock Alert	USN-6	As a system, I want to send alerts when jewellery stock levels fall below a set threshold.	Notification should be sent to the admin for low stock items.	Medium	Sprint-2
Admin / Manager	Reporting & Analytics	USN-7	As an admin, I want to generate reports and dashboards for sales and stock tracking.	The system should allow report generation by category, date, and product type.	High	Sprint-1
Customer	Invoice and Confirmation	USN-8	As a customer, I want to receive an invoice and confirmation email after purchase.	The system should generate and email the invoice automatically.	Medium	Sprint-2