

# Data Flow Diagrams And User Stories

## Data Flow Diagrams & User Stories

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Team ID: LTVIP2025TMID30526

Project Name: Jewelry Inventory Management System

Maximum Marks: 4 Marks

### Abstract

The Jewelry Inventory Management System, built on Salesforce, simplifies the handling of gold/silver item inventory, pricing, customer orders, and billing. It automates the processes of managing customers, assigning workers to orders, updating billing details, and validating pricing based on item type, purity, and weight. Using Salesforce features like Lightning App Builder, Flows, Apex Triggers, and Reports, the system offers role-based permissions, real-time pricing logic, and user-friendly dashboards. It ensures accurate billing, proper role enforcement (Goldsmith, Worker), and centralized data access for store managers and staff.

### Hardware Required

- A laptop/desktop with internet connectivity

### Software Required

- Salesforce Developer Org or Enterprise Edition

### Data Flow Diagrams

A Data Flow Diagram (DFD) visually represents the flow of information within a system, showing how data enters, is processed, stored, and exits the system.

Below are the Context Diagram (Level 0) and Level 1 DFD for the Public Transport Management System.

### Context Diagram (Level 0)

The Context Diagram represents the Public Transport Management System as a single process interacting with external entities.

### External Entities:

- Goldsmith
- Worker
- Store Admin
- Customer

### Text-based Representation:

[Customer] → (Place Order, View Items) → [Jewelry Inventory Management System]  
[Store Admin] → (Manage Items, Prices, Users) → [Jewelry Inventory Management System]  
[Goldsmith] → (Update Order Progress, View Assignments) → [Jewelry Inventory Management System]  
[Worker] → (Check Assigned Items, Enter Details) → [Jewelry Inventory Management System]  
[Jewelry Inventory Management System] → (Billings, Customer Records, Inventory Status) → [Store Admin]  
[Jewelry Inventory Management System] → (Assigned Orders, Item Status) → [Goldsmith / Worker]

### Level 1 DFD:

[Store Admin] → (Create/Edit Items) → [1. Manage Items] → [D1: Item\_\_c]  
[Store Admin] → (Create/Edit Prices) → [2. Manage Prices] → [D2: Price\_\_c]  
[Admin/Worker] → (Create Orders) → [3. Manage Orders] → [D3: Customer\_Order\_\_c]  
[Admin] → (Create Bill) → [4. Manage Billing] → [D4: Billing\_\_c]  
[System] → (Auto-Calculate Paid Amount) → [TriggerHandlerClass]  
[System] → (Fetch Price using Purity, Type, Weight) → [Flow: Price Fetch Logic]  
[Admin] → (View Reports) → [5. Reports & Dashboards] → [D5: Report]

## User Stories

Below are the user stories for the Public Transport Management System, aligned with the project's functionalities and Salesforce features.

User Stories

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User Type	Functional Requirement (Epic)	User Story No.	User Story / Task	Acceptance Criteria	Priority	Release
Admin	Inventory Setup	USN-1	As an Admin, I can create items and set gold/silver prices using object records	Items and Prices are saved in Item__c and Price__c objects	High	Sprint-1
Admin	Billing	USN-2	As an Admin, I can generate billing for an order and view paid amount	Billing__c records are created and updated with triggers	High	Sprint-1
Admin	Automation	USN-3	As an Admin, I can use Flows to auto-fetch price based on item purity,	Price appears on order page automatically via Flow	High	Sprint-2

weight,  
and type.

Worker	Assigned Orders	USN-4	As a Worker, I can view and update assigned orders only	Worker can see assigned records based on profile permission	Medium	Sprint-2
Goldsmith	Update Item Info	USN-5	As a Goldsmith, I can update work progress on assigned items	Goldsmith can update only their assigned orders	Medium	Sprint-2
Admin	Reporting	USN-6	As an Admin, I can generate reports for items and billings	Report displays item status, pricing, and total amount	Medium	Sprint-3