

Project Design Phase – II

Data Flow Diagram & User Stories

Date	2 November 2025
Team ID	NM2025TMID03296
Project Name	Lease Management System
Maximum Marks	4 Marks

Data Flow Diagrams

A **Data Flow Diagram (DFD)** is a graphical representation that shows how data moves through a system — how it is input, processed, stored, and output. It helps visualize system processes, data interactions, and dependencies clearly.

In the project "**Lease Management System**", DFDs illustrate how tenant, property, lease, and payment information flows through different components of the system. The diagram represents interactions between the **admin**, **tenant**, **lease object**, **payment records**, and **approval workflows** within Salesforce.

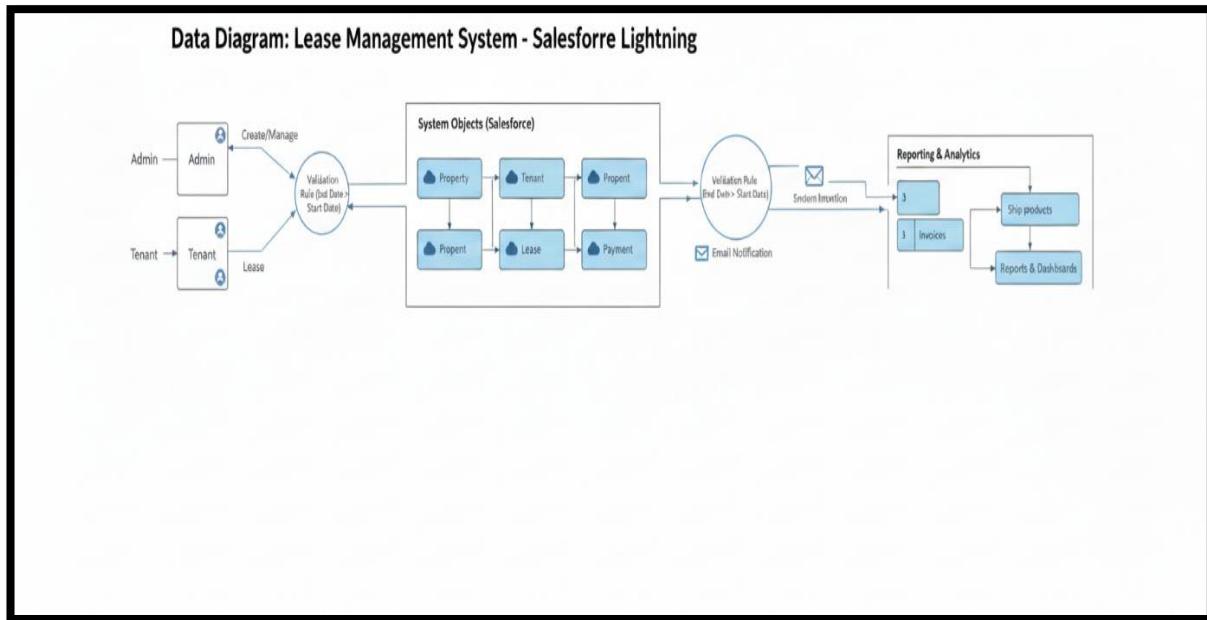
When a new lease is created, data flows from the **tenant record** to the **lease object**, validated using the rule that ensures the **end date is greater than the start date**. The lease is then linked to its respective property and payment record. Upon creation or modification, the **approval workflow** sends notifications to the admin for validation and approval.

This ensures **data accuracy, automation, and efficient tracking** of all lease-related activities.

Example (Described Data Flow)

1. **Admin** creates a new **Property** record.
2. **Tenant** record is added and linked to a property.
3. **Lease** details (start date, end date, amount) are entered and validated through a rule.
4. **Approval Process** sends notification to admin for review.

5. **Payment Record** is created and associated with the approved lease.
 6. **Reports and Dashboards** display all property, tenant, lease, and payment data.



User Stories

User stories describe system functionalities from different user perspectives in simple, goal-focused language. In this project, they ensure that each user's interaction — from property creation to payment management — is automated, validated, and trackable.

User Type	Functional Requirement (Epic)	User Story Number	User Story/Task	Acceptance Criteria	Priority	Release
Admin	Property & Tenant Management	USN-1	As an admin, I want to create and manage property and tenant records to maintain organized leasing data.	The system should allow property and tenant creation with unique IDs and relationships.	High	Sprint-1

Admin/ System	Lease Creation & Validation	USN-2	As a system, I must validate that lease end dates are greater than start dates before saving.	Lease record is saved only when the end date is greater than the start date; else, error shown.	High	Sprint-1
Admin	Approval Workflow	USN-3	As an admin, I want to approve or reject tenant lease requests and notify users automatically.	Approval triggers status updates and sends notification emails upon approval or rejection.	High	Sprint-2
Tenant	Payment Entry	USN-4	As a tenant, I want to view my lease details and payment status.	Payment data should be correctly linked to the lease and viewable by tenant.	Medium	Sprint-3
Admin/ System	Reporting & Dashboard	USN-5	As an admin, I want to generate reports showing all leases, tenants, and payment history.	Reports display accurate and updated lease and payment information.	Medium	Sprint-4