

REQUIREMENT ANALYSIS

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Project Name	LEASE MANAGEMENT
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1. Overview

The Data Flow Diagram (DFD) illustrates how data moves through the **Salesforce Lease Management System**, showing the interaction between users, processes, and Salesforce objects.

This helps visualize the flow of information between Tenants, Property, Lease, and Payment entities.

2. DFD Explanation

Level 0 – Context Diagram:

- The system receives input from two primary users: **Admin** and **Tenant**.
- Admin manages Property, Tenant, and Lease data.
- Tenant interacts indirectly through record updates and approvals.
- Emails are triggered automatically based on record changes.

Level 1 – Process Breakdown:

Process	Input	Output	Description
Property Management	Property details	Property record	Admin creates property records in Salesforce.
Tenant Registration	Tenant details	Tenant record	Admin adds tenant details and assigns a property.
Lease Management	Lease info	Lease record	Lease start and end dates recorded with validation.

Payment Tracking	Payment status	Email confirmation	Payment update triggers flow to send email.
Approval Process	Leave request	Approved/Rejected record	Tenant leave approval handled by admin.
Monthly Reminder	Date trigger (1st of month)	Rent reminder email	Apex scheduler runs automatically to send reminders.

3. Data Flow Summary

Main Data Entities:

- **Tenant__c**
- **Property__c**
- **Lease__c**
- **Payment__c**

Relationships:

- Each *Tenant* is linked to exactly one *Property*.
- Each *Property* can have one active *Tenant*.
- Each *Payment* belongs to a *Tenant*.
- *Lease* records reference both *Tenant* and *Property*.

4. Diagram Description:

