

Data Flow and User Stories

Date	27 October 2025
Team ID	NM2025TMID03953
Project Name	Lease Management System
Maximum Marks	4 Marks

Data Flow:

Level 0: Context Diagram

The system centers around four key entities — **Property Owner**, **Tenant**, **System (Lease Management System)**, and **Admin**.

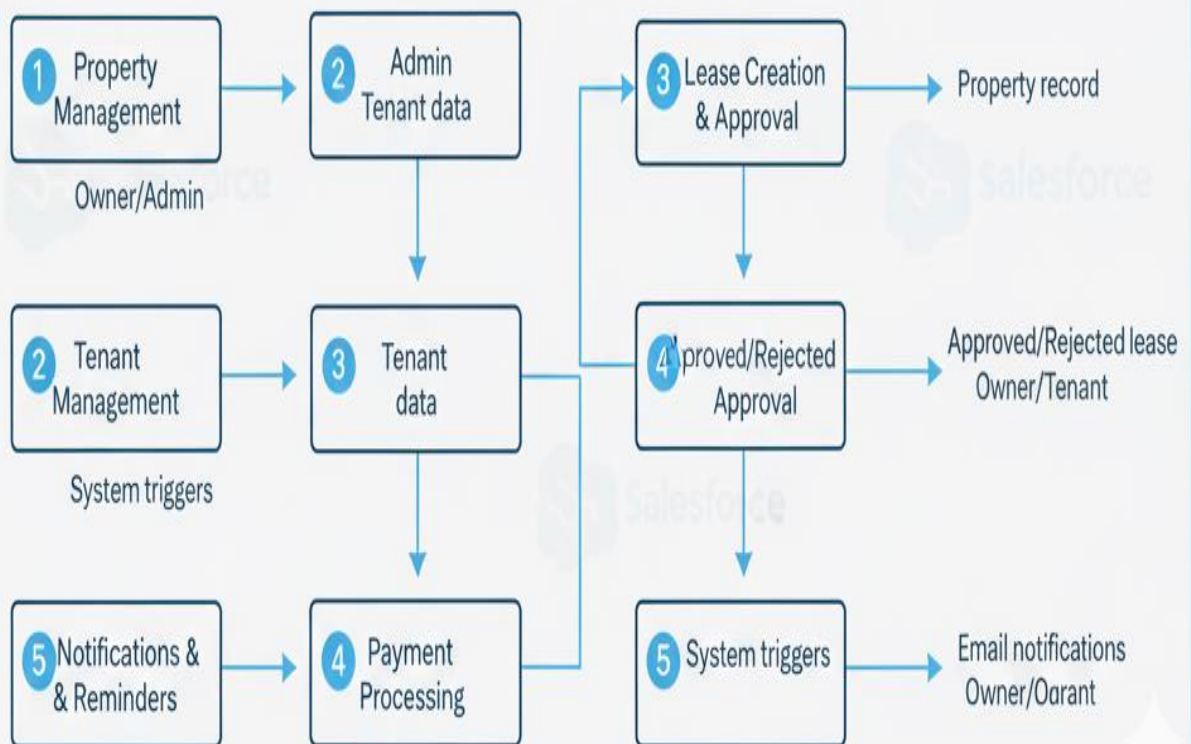
- The **Owner** enters property information and oversees lease approvals.
- The **Tenant** submits lease requests and completes payment transactions.
- The **System** handles data processing, record storage, and reminder notifications.
- The **Admin** oversees user management, verifies data, and ensures smooth workflow operations.

Level 1: Process Breakdown

Process	Input	Output	Description
1. Property Management	Property details	Property record	Owner or Admin creates a property record.

Process	Input	Output	Description
2. Tenant Management	Tenant data	Tenant record	Admin adds or updates tenant details.
3. Lease Creation & Approval	Lease request	Approved/Rejected lease	Lease is created, validated, and approved through the approval process.
4. Payment Processing	Payment data	Payment confirmation	Tenant payment is recorded and receipt email is sent.
5. Notifications & Reminders	Schedule triggers	Email notifications	System automatically sends reminders for payments or lease expiry.

Level 1: Process Breakdown



User Stories:

User Role	User Story ID	User Story Description	Acceptance Criteria
Admin	US-01	As an Admin, I can create and manage property, tenant, and lease records.	Admin can add, update, and view all records successfully.
Admin	US-02	As an Admin, I can configure validation rules to prevent incomplete lease entries.	Validation error shown when mandatory fields are missing.
Tenant	US-03	As a Tenant, I can view my lease details and payment status.	Tenant dashboard displays accurate lease and payment information.
Tenant	US-04	As a Tenant, I receive automatic email reminders for monthly payments.	System sends timely payment reminder emails.
Owner	US-05	As a Property Owner, I can approve or reject lease applications.	Approval workflow updates lease status after owner's action.
System (Automation)	US-06	As the System, I can automatically trigger monthly payment processes.	Scheduled Apex runs successfully each month.