

Project Design Phase-II

Data Flow Diagram & User Stories

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Team ID	7264E40C79CF15DA21F41ABA4F4825CD
Project Name	Lease Management System

Data Flow Diagrams:

A **Data Flow Diagram (DFD)** represents how data moves through the lease management system. It helps visualize processes like property listing, tenant registration, lease agreement creation, rent payments, and lease termination. A clear DFD ensures proper understanding of data input, transformation, and storage across the system.

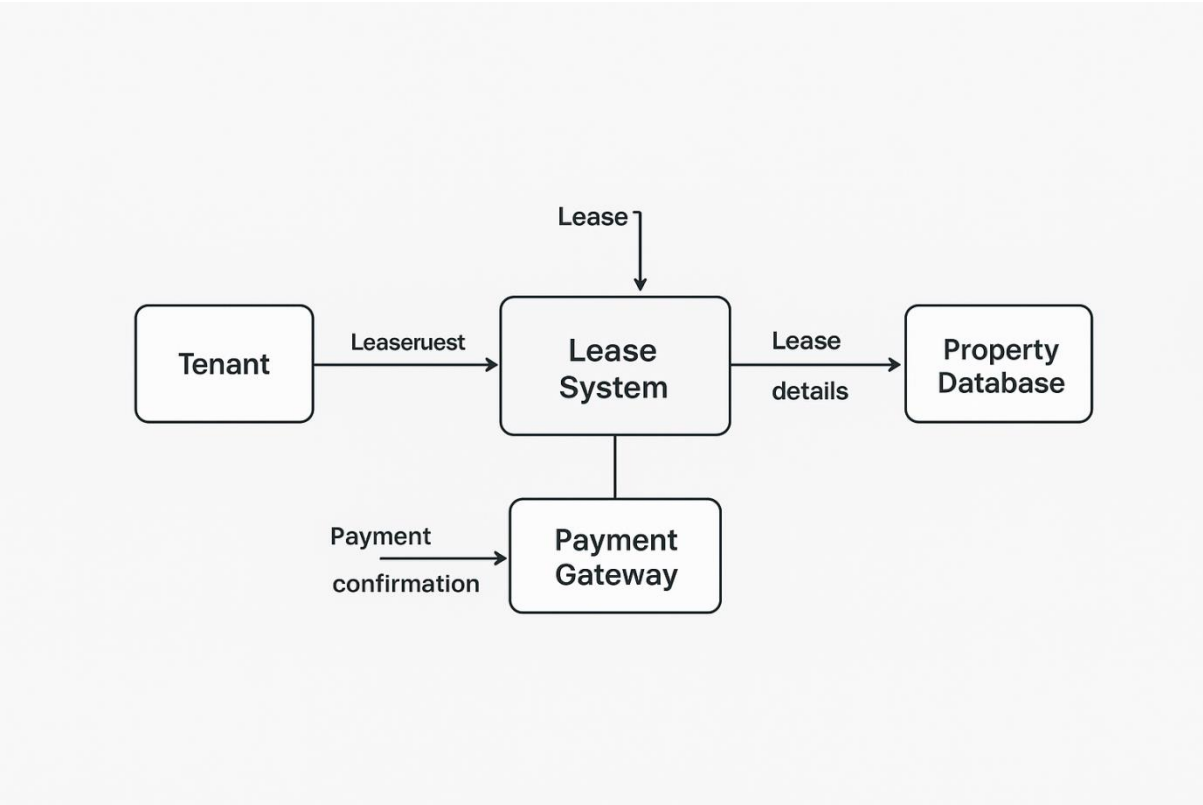
In the project "**Lease Management System**", DFDs depict the flow of information between **landlords**, **tenants**, and the **system database**. The DFD highlights how lease requests are initiated, validated, stored, and maintained. For example, when a tenant requests a lease, the system checks property availability, generates lease documents, and stores records securely. Admins can monitor active leases, payment status, and expiry alerts to ensure smooth operation and compliance.

Example:

Flow Explanation:

1. Landlord lists property details in the system.
2. Tenant searches and applies for a lease.
3. System validates property availability and user credentials.
4. Lease agreement is generated and stored in the database.
5. Tenant and landlord receive lease confirmation and payment details.

6. System tracks lease duration and sends renewal or termination reminders.



User Stories:

User stories describe how different users interact with the lease management system to achieve their goals effectively. Each story helps define system features that ensure proper handling of lease agreements and automate repetitive tasks.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Landlord	Property Listing & Lease Creation	USN-1	As a landlord, I want to list my property and create lease agreements	System allows property listing with complete details and generates	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
			so that tenants can easily rent them.	lease documents upon tenant approval.		
Tenant	Lease Request & Payment	USN-2	As a tenant, I want to request a lease and pay rent online so that I can manage my lease digitally.	Lease request is approved only if property is available; payment is processed securely.	High	Sprint-1
System (Auto-check)	Lease Expiry Validation	USN-3	As a system, I must automatically check lease expiry dates and notify users before renewal or termination.	System sends alerts to both tenant and landlord 30 days before lease expiry.	Medium	Sprint-2
Administrator	Report & Audit Management	USN-4	As an admin, I want to generate reports of all active	System generates downloadable reports (PDF/Excel) with current	Medium	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
			and expired leases to ensure data accuracy and compliance.	lease status and payment summaries.		