**Project Design Phase-II**

**Data Flow Diagram & User Stories**

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| --- | --- |
| Date | 3 August 2025 |
| Team ID | LTVIP2025TMID30830 |
| Project Name | Lease management |
| Maximum Marks | 4 Marks |

**Data Flow Diagrams:**

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.



Example: DFD Level 0 (Industry Standard)

**Example:** [**(Simplified)**](https://developer.ibm.com/patterns/visualize-unstructured-text/)

Diagram

Description automatically generated

**Diagram, timeline

Description automatically generated**

**User Stories**

Use the below template to list all the user stories for the product.

| **User Type** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Acceptance criteria** | **Priority** | **Release** |
| --- | --- | --- | --- | --- | --- | --- |
| Customer (Mobile user) | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | I can access my account / dashboard | High | Sprint-1 |
|  |  | USN-2 | As a user, I will receive confirmation email once I have registered for the application | I can receive confirmation email & click confirm | High | Sprint-1 |
|  |  | USN-3 | As a user, I can register for the application through Facebook | I can register & access the dashboard with Facebook Login | Low | Sprint-2 |
|  |  | USN-4 | As a user, I can register for the application through Gmail |  | Medium | Sprint-1 |
|  | Login | USN-5 | As a user, I can log into the application by entering email & password |  | High | Sprint-1 |
|  | Dashboard |  |  |  |  |  |
| Customer (Web user) |  |  |  |  |  |  |
| Customer Care Executive |  |  |  |  |  |  |
| Administrator |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

## Lease Management System – Data Flow Diagrams

This section outlines the data flow within the Lease Management System.  
  
Level 1 Data Flow Description:  
  
[Admin/Manager] -------------> [Create Property, Tenant, Lease, Payment] ------------>  
 |  
 ↓  
 [Salesforce Database]  
 ↑  
[Scheduler (Apex)] <--- [Send Monthly Rent Reminder] <---- [Email Templates]  
  
[Tenant] <--------------- [Receives Emails: Reminder, Approval, Rejection, Confirmation]  
  
[Validation/Apex Trigger] <--- [Data Input Validation & Automation Logic] <--- [Admin/Tenant]  
  
[Admin] <--- [Approves/Rejects Lease Requests] <--- [Approval Process Logic]

## Lease Management System – User Stories

The following are user stories for different roles within the system:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User Type | Functional Requirement (Epic) | User Story Number | User Story / Task | Acceptance Criteria | Priority |
| Admin/Manager | Lease Management | US-1 | As an Admin, I can create and manage property records. | Property records are added/updated successfully. | High |
| Admin/Manager | Tenant Management | US-2 | As an Admin, I can onboard tenants and assign them to properties. | Tenants are linked with correct properties. | High |
| Admin/Manager | Approval Workflow | US-3 | As an Admin, I can approve or reject lease requests. | Lease requests move to correct status after decision. | Medium |
| Tenant | Notifications | US-4 | As a Tenant, I receive reminders for monthly rent payments. | Tenant receives email on the 1st of each month. | High |
| Salesforce Developer | Apex Automation | US-5 | As a Developer, I can write triggers to enforce data validation. | System prevents invalid tenant-property mapping. | High |
| Salesforce Developer | Scheduled Jobs | US-6 | As a Developer, I can schedule rent reminders using Apex. | Reminder job runs on schedule without failure. | High |
| Tenant | Lease Termination | US-7 | As a Tenant, I can request lease termination. | Request is submitted and visible to Admin for approval. | Medium |
| Admin/Manager | Dashboards | US-8 | As an Admin, I can view dashboards for lease insights. | Dashboard shows accurate real-time lease data. | Medium |