

Project Design Phase

Solution Architecture

Date	02 November 2025
Team ID	NM2025TMID04536
Project Name	Lease Management
Maximum Marks	5 Marks

Solution Architecture

The solution architecture defines how various Salesforce components interact to deliver the complete lease management workflow.

Architecture Layers:

- **Presentation Layer:**
 - Salesforce Lightning App (user interface).
 - Tabs for Property, Tenant, Lease, and Payment management.
- **Business Logic Layer:**
 - Apex Triggers and Classes to handle system logic (e.g., auto-update payment status).
 - Validation Rules and Approval Processes for maintaining data integrity.
 - Flows for automated monthly notifications.
- **Data Layer:**
 - Custom Objects for Property, Tenant, Lease, and Payment.
 - Lookup relationships linking all relevant records.
 - Secure Salesforce cloud database for data storage.

Data Interaction Flow:

1. Admin creates **Property** and **Tenant** records.
2. **Lease** is created linking both entities.
3. **Payment** records are generated monthly via Flows or Apex Classes.
4. **Email Templates** notify tenants about payments or approvals.
5. **Reports & Dashboards** summarize all active leases and payments.

Solution Architecture Diagram

