

## Project Design Phase

### Solution Architecture

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Team Id	NM2025TMID03188
Project Name	Lease Management

### Solution Architecture :

#### Goals of the Architecture :

- **Centralize lease data** for easy access and accuracy.
- **Automate lease processes** like renewals, payments, and approvals.
- **Ensure security and compliance** with role-based access and audit tracking.
- **Enable integrations** with finance systems and payment gateways.
- **Provide real-time reports and dashboards** for better decision-making.

#### Key Components :

- **Salesforce Platform** – Core system to manage leases, tenants, and payments.
- **Automation Tools** – Flows and approvals to automate lease renewals and reminders.
- **Reports & Dashboards** – Real-time tracking of lease status and payments.
- **Security & Integrations** – Role-based access and links to payment or finance systems.

#### Development Phases :

- **Requirement Gathering** – Understand business needs and lease processes.
- **Design & Development** – Build data models, automation, and user interfaces.
- **Testing & Deployment** – Verify system performance and move to production.
- **Training & Maintenance** – Train users and ensure smooth ongoing operations.

#### Solution Architecture Description :

The **Lease Management Solution Architecture** is designed to centralize and automate all lease-related activities within Salesforce. It integrates key components like data storage, automation, reporting, and security to streamline the entire lease lifecycle. The system uses **custom Salesforce objects** such as Lease, Tenant, Property, and Payment to store structured information. **Automation tools** like Flows and Approval Processes handle renewals, rent reminders, and approvals without manual effort. A **user-friendly interface** built with Lightning Components allows property managers and finance teams to easily access and update lease data. The system also supports **integrations** with payment gateways and ERP systems for financial tracking. **Reports and dashboards** provide real-time insights into lease performance, payments, and renewals. Security is ensured through role-based access control and audit tracking. Overall, the architecture provides a scalable, secure, and efficient solution for managing lease operations, improving accuracy, saving time, and enhancing collaboration between teams.

## Example - Solution Architecture Diagram :

