

Project Design Phase

Proposed Solution

Date	November 2,2025
Team ID	NM2025TMID03296
Project Name	Lease Management System
Maximum Marks	2 Marks

Proposed Solution Template

S.No	Parameter	Description
1	Problem Statement (Problem to be solved)	In traditional property and lease management systems, information about tenants, properties, payments, and leases is often maintained manually or across different tools. This leads to data duplication, missed payments, inaccurate lease tracking, and poor communication between tenants and property managers.
2	Idea / Solution Description	The Lease Management System is developed using the Salesforce Lightning platform . It automates property and lease operations by introducing custom Salesforce objects — <i>Property</i> , <i>Tenant</i> , <i>Lease</i> , and <i>Payment</i> . The system uses validation rules to ensure data accuracy, approval workflows for tenant record approvals, and email notifications to inform users about status changes. Reports and dashboards provide real-time visibility into lease activities.
3	Novelty / Uniqueness	The solution offers a centralized, cloud-based approach to lease management using Salesforce native features, eliminating the need for external tools. Its integration of automated validation, approval processes, and notification systems makes it unique, ensuring error-free and transparent operations.

4	Social Impact / Customer Satisfaction	The system improves transparency and communication between property managers and tenants. It ensures timely payments, prevents errors in lease data, and enhances trust and satisfaction by automating key operations.
5	Business Model (Revenue Model)	Business Model (Revenue Model) While not directly monetized, the system can save time, reduce manual errors, and optimize resource management for property agencies and landlords. Its efficiency leads to cost savings and improved operational productivity .
6	Scalability of the Solution	The solution can easily scale to manage multiple properties, agents, and regions. Additional modules such as maintenance tracking, reminders for renewals, and financial reports can be integrated to expand its functionality.

Conclusion

The project “Lease Management System” effectively bridges the gap in traditional property and lease management by automating manual operations through the Salesforce Lightning Platform. It provides a centralized and cloud-based solution to manage properties, tenants, leases, and payments efficiently.

By integrating custom objects, validation rules, approval workflows, and email notifications, the system enhances accuracy, transparency, and accountability. It minimizes human error, improves communication between property managers and tenants, and offers real-time insights through dashboards and reports.

This innovative solution transforms lease management into a smarter, faster, and more reliable process, supporting better decision-making and long-term operational efficiency.

Reference

Infographic created using Salesforce Lightning documentation and SmartInternz Project Guidelines.

Solution Description

The **Lease Management System** simplifies and automates property leasing operations using **Salesforce Lightning**. The project introduces four key objects — *Property*, *Tenant*, *Lease*, and *Payment* — to store and manage all relevant data in one place.

Through **validation rules**, the system prevents incorrect lease entries (e.g., ensuring the end date is after the start date). The **approval process** allows administrators to approve or reject tenant records, while **automated email notifications** keep users informed throughout the process.

In addition, **reports and dashboards** offer insights into lease durations, payment histories, and active tenants, enabling better decision-making. The solution enhances **data integrity, operational efficiency, and transparency**, providing a reliable and scalable approach for managing leasing activities in enterprise environments.