Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date: 29 Otcober 2025
Team ID: NM2025TMID01082
Project Name: Lease Management System in Salesforce
Maximum Marks: 4 Marks

Functional Requirements:

Following are the functional requirements of the proposed **Salesforce-based Lease Management System**.

FR No.	Functional Requirement (Epic)	Sub-Requirement (User-Level / Feature Detail)
FR-01	Property Management	FR-01.1: The system shall allow users to create and manage property records with details such as Property Name, Location, and Owner.FR-01.2: The system shall allow editing, updating, and deletion of existing property records.FR-01.3: Each property shall be associated with multiple lease agreements and tenants.
FR-02	Tenant Management	FR-02.1: The system shall allow users to register tenants with details such as Name, Contact Information, and Lease Period.FR-02.2: The system shall link tenants to their respective properties and lease agreements.FR-02.3: The system shall support tenant data search and filtering.
FR-03	Lease Agreement Management	FR-03.1: The system shall allow creation of new lease agreements with details such as Lease Start Date, End Date, and Rent Amount.FR-03.2: The system shall support renewal of expired leases automatically using workflows.FR-03.3: The system shall maintain historical lease data for audit purposes.
FR-04	Payment Management	FR-04.1: The system shall track rent payments made by tenants and associate them with the correct lease.FR-04.2: The system shall generate automated rent invoices with date, amount, and payment status.FR-04.3: The system shall provide a report of overdue payments.
FR-05	Notification & Reminder Automation	FR-05.1: The system shall send automated notifications for rent due dates, lease expirations, and renewals.FR-05.2: The system shall notify property owners about pending payments or upcoming renewals through email alerts and in-app notifications.

FR No.	Functional Requirement (Epic)	Sub-Requirement (User-Level / Feature Detail)
FR-06	Dashboard & Reporting	FR-06.1: The system shall display lease summary reports showing total active leases, upcoming renewals, and pending payments.FR-06.2: The dashboard shall provide graphical visualizations for property occupancy and payment trends.

Non-Functional Requirements:

Following are the non-functional requirements of the proposed solution.

NFR No.	Non-Functional Requirement	Description
NFR-01	Performance	The system shall respond to user actions (create, update, view, delete) within 3 seconds under normal load conditions.
NFR-02	Scalability	The system shall support at least 100 concurrent users with minimal performance degradation and allow additional modules to be added in the future.
NFR-03	Reliability	The system shall ensure all transactions (lease agreements, payments, renewals) are error-free, with rollback mechanisms for data consistency.
NFR-04	Security	The system shall enforce Salesforce role-based access control and encrypt all sensitive tenant and payment data using HTTPS/SSL protocols.
NFR-05	Usability	The user interface shall be intuitive, responsive, and consistent across desktop and mobile devices to ensure smooth navigation.
NFR-06	Availability	The system shall maintain 99.5% uptime (excluding maintenance windows) and provide automatic data recovery from unexpected failures.