

Solution Requirements

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| Date | 27 October 2025 |
| Team ID | NM2025TMID03953 |
| Project Name | Lease Management System |
| Maximum Marks | 4 Marks |

Functional Requirements:

Functional requirements define what the system should do. They describe the specific features, functions, and operations that the system must perform to fulfill user and business needs.

| ID | Requirement Description |
|-------|--|
| FR-01 | The system shall allow the admin to create and manage Property, Tenant, Lease, and Payment records. |
| FR-02 | The system shall enable tenants to view lease details, payment history, and due dates. |
| FR-03 | The system shall send automated email notifications for lease approvals, rejections, and monthly payments. |
| FR-04 | The system shall include approval processes for lease initiation, renewal, and vacancy approvals. |
| FR-05 | The system shall implement validation rules to prevent incomplete or invalid data entry. |
| FR-06 | The system shall schedule Apex jobs to automate monthly payment reminders. |
| FR-07 | The system shall generate reports summarizing active leases, payment status, and tenant records. |
| FR-08 | The system shall allow admins to manage user roles and permissions (Owner, Tenant, Admin). |

Non-Functional Requirements:

Non-functional requirements describe how the system should perform. They focus on system qualities such as performance, security, usability, scalability, and reliability.

| ID | Requirement Description |
|--------|--|
| NFR-01 | The system shall ensure data security using Salesforce role-based access control. |
| NFR-02 | The system shall provide high performance with fast processing of records and workflows. |
| NFR-03 | The system shall be scalable to handle a growing number of properties and tenants. |
| NFR-04 | The system shall maintain data integrity between linked objects such as Lease and Tenant. |
| NFR-05 | The system shall provide an intuitive and user-friendly Salesforce Lightning interface. |
| NFR-06 | The system shall ensure reliability and prevent data loss during automated operations. |
| NFR-07 | The system shall perform periodic backups according to Salesforce data retention policies. |
| NFR-08 | The system shall ensure timely and accurate delivery of email notifications. |

Conclusion:

The **Lease Management System** fulfills both **functional** and **non-functional requirements**, delivering a dependable, efficient, and intuitive platform for handling property leases. The **functional requirements** enable automation of key operations such as lease tracking, approval management, and payment processing. Meanwhile, the **non-functional requirements** ensure aspects like security, scalability, and optimal performance. Together, these elements create a **powerful, seamless, and automated lease management solution** that boosts productivity and enriches user experience.