LEASE MANAGEMENT

Requirement Analysis Report

Submitted by:

A.Mohamed riyas (912422104023)
S.Kannan (912422104016)
P.Mathanraj (912422104019)
S.Mathikumar (912422104020)

Department of Computer Science and Engineering

Shanmuganathan Engineering College

Academic Year: 2025–2026

1. Introduction

The Requirement Analysis Phase identifies the functional and non-functional requirements of the Lease Management System (LMS). It ensures that the system meets user expectations, operational needs, and supports efficient lease operations across all user roles. This phase establishes the foundation for design and development.

2. Functional Requirements

- User Management: Secure login for Admin, Landlord, and Tenant roles.
- Property Management: Add, update, and delete property records.
- Lease Management: Create, modify, and terminate lease agreements.
- Payment Tracking: Record rent transactions and generate receipts.
- Notification System: Send alerts for rent due dates and lease expirations.
- Document Management: Upload and store digital copies of lease documents.
- Reporting: Generate financial and occupancy reports.

3. Non-Functional Requirements

- Performance: The system should handle multiple concurrent users efficiently.
- Security: Ensure encryption of user credentials and document data.
- Reliability: Guarantee minimal downtime and consistent operation.
- Usability: Provide an intuitive and user-friendly interface for all roles.
- Scalability: Support future expansion and integration with payment gateways.

4. System Requirements

- Hardware: Computers/laptops with stable internet connection.
- Software: Web browser, Node.js/Django backend, React/Angular frontend, MySQL database.
- Tools: VS Code, GitHub, Postman, JMeter for testing.

5. User Requirements

- Landlord: Create and monitor lease agreements, receive payment insights, and manage tenant information.
- Tenant: View lease details, make rent payments, and receive reminders.
- Admin: Manage system users, properties, financial records, and generate reports.

6. Feasibility Analysis

- Technical Feasibility: The system utilizes modern, reliable web technologies for development.
- Operational Feasibility: Streamlines lease processes, reduces paperwork, and automates renewals.
- Economic Feasibility: Developed using cost-effective, open-source tools minimizing deployment costs.

7. Conclusion

The Requirement Analysis Phase clearly defines the functional, non-functional, and user-based needs of the Lease Management System. This ensures a structured development process aligned with business goals and end-user expectations, minimizing potential risks during implementation.