

Project Report

Title: Lease Management System

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1. Objective

The main objective of this project is to develop a Lease Management System that automates and simplifies the process of managing lease agreements, tenants, rent payments, and property records. The system ensures accuracy, easy tracking, and timely notifications for lease renewals and rent payments.

2. Problem Statement

Traditional lease management involves manual record-keeping, paper documents, and delayed rent tracking. This leads to inefficiency, missed payments, and data loss. The proposed system provides a digital solution to manage all leasing activities efficiently in one platform.

3. Scope of the Project

Manage property and tenant information.

Record lease details and payment history.

Generate automatic reminders for rent due and lease renewal.

Provide summary reports and dashboards for analysis.

Ensure data security and easy access for authorized users.

4. Modules

1. Admin Module:

Manage properties, tenants, and leases.

Update, delete, or view lease details.

2. Tenant Module:

View lease terms and rent payment details.

Download receipts or invoices.

3. Payment Module:

Record and monitor payments.

Generate monthly rent reports.

4. Notification Module:

Send alerts for upcoming rent due dates and lease expirations.

5. Technologies Used

Frontend: HTML, CSS, JavaScript

Backend: Python (Django/Flask) or Java (Spring Boot)

Database: MySQL / PostgreSQL

Tools: Visual Studio Code, GitHub, XAMPP

Operating System: Windows 10

6. Methodology

1. Requirement Analysis – Identify user and system needs.
2. System Design – Create UML, ER diagrams, and database schema.
3. Implementation – Develop modules using selected technologies.
4. Testing – Conduct functional and performance testing.
5. Deployment – Host and run the system on a local or cloud server.

7. Output / Results

- Displays property and tenant records in a single dashboard.
- Tracks rent payment and lease renewal automatically.
- Generates reports of active, expired, and upcoming leases.
- Sends notifications for rent due and contract renewal.

8. Advantages

- Reduces manual work and paperwork.
- Improves accuracy and saves time.
- Provides secure storage and retrieval of lease data.
- Enables better financial and administrative management.

9. Conclusion

The Lease Management System efficiently automates the leasing process by integrating tenant, property, and payment information. It enhances productivity, reduces errors, and provides a transparent, reliable, and user-friendly way to manage lease operations digitally.

10. Future Enhancement

Add mobile app integration for easier access.

Include online rent payment gateway.

Add data analytics for rent trends and occupancy rates.