

Lease Management System

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Abstract

Lease Management is a systematic approach to handling lease agreements, payments, and renewals digitally. This project aims to automate traditional manual processes by providing digital storage for agreements, automated payment reminders, renewal notifications, and efficient tenant/landlord record management. The system reduces errors, enhances transparency, and improves efficiency in property and business lease management.

Introduction

Lease Management refers to the process of managing contracts where property, equipment, or land is leased to tenants. It plays an important role in real estate and business operations. Current challenges include manual errors, delays in payments, missing documents, and difficulty in tracking renewals.

Objectives of the Project

- Automating lease agreements
- Tracking payments and renewals
- Maintaining tenant and landlord records
- Reducing manual errors

Literature Review / Existing System

The existing lease management system largely depends on manual paperwork, which leads to inefficiencies. Common issues include delays in agreement processing, lack of reminders for payments/renewals, and risk of losing important documents.

Proposed System

The proposed Lease Management System offers a digital solution with features such as agreement storage, automated payment reminders, dashboards for tenants and landlords, and renewal notifications. This ensures efficiency, transparency, and reduces manual work.

System Design

The system architecture includes three layers: frontend, backend, and database. Database tables include Users, Tenants, Lease Agreements, and Payments.

Modules Description

- User Management
- Lease Agreement Module
- Payment Tracking Module
- Notification/Reminder Module
- Report Generation

Technology Used

Frontend: HTML, CSS, JavaScript / React

Backend: Python (Flask/Django) / PHP / Node.js

Database: MySQL / MongoDB

Tools: VS Code, GitHub

Implementation

The system is implemented with user-friendly interfaces, workflows for agreement management, and automated notifications. Screenshots or UI mockups can be included here.

Testing

- Unit testing
- Integration testing
- User acceptance testing

Conclusion & Future Scope

The Lease Management System simplifies the leasing process by providing digital solutions for agreement handling, payment tracking, and notifications. Future scope includes mobile app integration, AI-based document scanning, and advanced analytics.

References

1. Books on Real Estate Management
2. Research papers on Digital Lease Systems
3. Online resources and documentation on Flask, Django, MySQL