Mini Project User Requirement Specification

Apartment Management Software System

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1.1 PURPOSE OF THE PROJECT:

The purpose of the Apartment Management System is to streamline administrative tasks and enhance communication between administrators, owners, tenants, and employees in apartment complexes.

1.2 SCOPE OF THE PROJECT:

The scope of the Apartment Management System includes the following key functionalities for different user roles:

- **ADMIN:**
- Secure login/logout.
- View tenant, owner, and employee details.
- Create owner profiles and allot parking slots.
- Manage and address complaints.
- View total counts for owners, tenants, and employees.

- **OWNER:**
- Secure login/logout.
- Access tenant details, room information, and complaints for owned rooms.
- Create tenant profiles for owned rooms.
- View the total number of complaints related to owned rooms.

- **TENANT:**
- Secure login/logout.
- View allotted parking slots.
- Make online maintenance fee payments.
- Raise and track complaints.
- Access personal information.

- **EMPLOYEE:**
- Secure login/logout.
- Access a list of all complaints.
- View the total number of complaints.

2.1 PROJECT OVERVIEW:

The Apartment Management System efficiently manages apartment complex operations, including user management, complaint handling, parking slot allocation, and financial transactions. It enhances communication among stakeholders, ensuring seamless apartment management.

2.2 MAJOR PROJECT FUNCTIONALITIES:

The major functionalities of the Apartment Management System encompass user and complaint management, room details, parking slot allocation, payment processing, secure login/logout procedures, reporting, scalability, performance, security, and reliability.

These functionalities cater to the specific needs of each user role and are essential for effective apartment management.

2.3 SYSTEM FEATURES AND FUNCTION REQUIREMENTS:

The system features and function requirements for the Apartment Management System include:

- **User Profile Management:**
  Securely store and manage user profiles, including personal and contact details.
- **Complaint Management:**
  Record, track, and efficiently address tenant complaints.
- **Room Details and Parking Slot Allocation:**
  Manage room specifications and allocate parking slots with accurate record-keeping.
- **Financial Transactions:**
  Enable online payment processing for maintenance fees by tenants, ensuring convenience and transparency.
- **Club House Booking system:**
  Enable a Room Booking system feature for flatmates to book community room of the apartment.
- **Secure Login/Logout:**
  Implement robust authentication and authorization mechanisms for user access.
- **Scalability and Performance:**
  Ensure the system can scale to accommodate growth in users and data while maintaining efficient performance.
- **Security and Reliability:**
  Implement stringent data security measures to protect user information from unauthorized access. Maintain 24/7 system availability for uninterrupted apartment management.

By implementing these features and requirements, the Apartment Management System will offer a robust and efficient solution for managing apartment complexes, improving administrative tasks, and fostering seamless communication among administrators, owners, tenants, and employees. This system aims to enhance convenience, transparency, and overall satisfaction in apartment management operations.