



Society Management System Web Application

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Abstract

MySocietyPal is a comprehensive and user-friendly mobile application designed to revolutionize the security and management of gated societies. The app offers an integrated platform that empowers residents, security personnel, and management committees to efficiently collaborate, streamline operations, and enhance the overall safety and living experience within the gated community. It is an innovative mobile app designed to revolutionize the evolving needs of modern gated communities, apartments, and residential complexes. The app includes advanced security measures like: Residents can grant entry to visitors remotely, receive real-time visitor updates, and monitor entry-exit logs via the intuitive user interface. Community administrators and security personnel can efficiently manage access permissions, enhancing safety and reducing unauthorized entries. Residents can book amenities like clubhouses, swimming pools, and sports facilities, all through the app, simplifying the process and eliminating manual paperwork. The app also facilitates easy communication between residents through instant messaging, event notifications, and community announcements, creating a safer and more connected environment by fostering collaboration among residents and advanced technology. MySocietyPal envisions a world where communities actively collaborate, leverage modern technology, and prioritize safety. By promoting a sense of responsibility and mutual support, the app seeks to create lasting positive impacts on society's security landscape. Together, we can build stronger, safer neighbourhoods and contribute to a more secure and connected world.

Keywords— user-friendly, revolutionize, gated, streamline.

INTRODUCTION

In the ever-evolving landscape of urban living, the management of residential societies and communities has become increasingly complex and challenging. With the advent of technology, we now have the opportunity to simplify and streamline the intricate web of tasks involved in maintaining a harmonious and efficient living environment. Introducing the "Society Management System Application," a cutting-edge software project designed to revolutionize the way residential societies are managed and empower both residents and administrators alike. The Society Management System Application is a comprehensive solution aimed at enhancing the quality of life within residential societies, apartments, and gated communities. This software project is a response to the growing need for a more organized, efficient, and transparent system to manage the multifaceted aspects of community living. It takes into account the diverse needs and challenges faced by residents, committee members, facility managers, and security personnel, and provides an integrated platform to address them all.

LITERATURE SURVEY

The literature survey serves as a foundational component of this research, providing a comprehensive review of existing studies and works relevant to the development of the Society Management System Web Application. This section aims to highlight key findings, identify gaps in the literature, and establish the context for the current study.

In the study reported in [1]. They propose an idea wherein the ADMIN would manage the society maintenance, accounts, generate events, upload notices, and handle society rules. On the other hand, the USER would receive notifications concerning maintenance, notices, and events. Users would be able to lodge complaints and provide suggestions to the admin. The proposed system encompasses various features such as EVENTS, EMERGENCY contacts, MEETING schedules, and a COMPLAINT/FORUM section. The technology employed for this system involves the use of a Mobile Android app, while records are stored using MySQL. The system utilizes Rest API for connecting the Android app with the database, with PHP serving as the bridge between the Android platform and the MySQL database.

In the study reported in [2]. They propose a cloud-based system designed to manage the day-to-day activities of any cooperative housing society. The system aims to establish coordination between the respective management societies and the service providers to ensure convenient and appropriate services. The key functionalities of the project include online billing and accounting, integrating payment gateways, tracking income and expenses, and facilitating the easy creation of bills, receipts, and vouchers in a user-friendly manner.

This housing society system is built on a cloud-based infrastructure and is implemented using SMOOnline on the local server. SMOOnline operates as a website server, requiring an internet connection for its functioning. The server is developed as a web-based Java application and has been tested using various real Android phones with GPS capabilities over Wi-Fi for effective communication with clients.

In the study reported in [3]. They present an innovative Society Management System aimed at integrating multiple applications into a single Android application. This system is designed to effectively manage notices, health-related updates, social activities, and event information. It also serves as a platform for notifying and addressing important issues and complaints such as water and cleanliness problems. The Android application includes features for managing audits, bills, and offers online payment options like Phonepay and Gpay for convenient maintenance bill payments. Moreover, the application provides information about available parking lots, allowing users to allocate their parking areas. The technology and tools employed for this system include an Android application and MySQL serving as the database.

In the study reported in [4]. The paper introduces a society helping system that encompasses three types of users: Admin, Owners of houses or members of the website, and all other users. The Admin has comprehensive control over the system through a secure login with a unique username and password. The Admin is responsible for registering and adding details of the society, as well as creating and managing information about the houses within a particular society. Users, who primarily use the website for information, can easily access house details and locate addresses by providing the member's name or society name in the search page. Additionally, users can obtain information about the number of houses available for rent or sale within a specific society, along with member details, through the society helping system website. The technology and tools utilized for the development of this system include Visual Studio 2012 as the Integrated Development Environment (IDE), alongside ASP.Net, HTML-5, Bootstrap, Ajax, and JavaScript. Furthermore, SQL Server is used for efficient storage of the system's details.

In the study reported in [5]. The paper discusses a fully automated, cloud-based system that prioritizes user-friendliness. It offers various essential features, including online maintenance payment, a property tracker, and a notification system that provides reminders for due dates of different payments. Additionally, the system incorporates an online voting platform for society positions such as secretary, chairman, and treasurer. A comprehensive database of the entire society is also provided, enabling residents to easily access contact information. For instance, during emergencies, residents can search for a specific profession like a doctor within the society. The system's aim is to facilitate seamless communication. The technology and tools employed involve a cloud-based software architecture, allowing for easy modifications according to the society's requirements. Moreover, the system is designed to support multiple users without necessitating ongoing maintenance from the developer.

PROPOSED SYSTEM

In today's increasingly complex and fast-paced society, the management of residential communities and housing societies faces a multitude of challenges. From effective communication among residents, facility management, to financial transparency and security concerns, the existing systems often lack the necessary efficiency and transparency. There is a pressing need for an advanced Society Management System Application that can streamline various administrative tasks, enhance communication, ensure better security measures, and provide a user-friendly platform for residents and administrators alike.

This project aims to develop a comprehensive Society Management System Application that addresses the following key challenges:

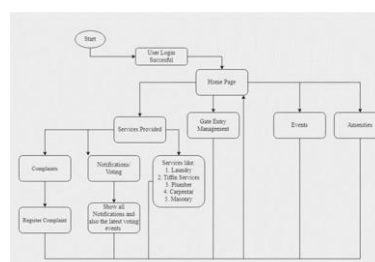
A. Communication Gap: The current communication channels within residential communities are often fragmented and inefficient. Residents, administrative staff, and management struggle with disseminating and receiving information effectively. The application should facilitate seamless communication among residents and management, including announcements, circulars, and issue resolution.

B. Facility Management: Maintaining and managing various facilities within the society, such as gymnasiums, swimming pools, parks, and common areas, can be a cumbersome task. The application should provide a platform for efficient scheduling of facilities, handling bookings, and managing maintenance requests, ensuring optimal utilization and upkeep.

C. Financial Transparency: Transparent financial management is crucial for ensuring trust and accountability within the society. The application should offer a robust financial module that enables transparent management of society funds, including maintenance charges, utility bills, and other expenses, with clear documentation and reporting.

SYSTEM IMPLEMENTATION

To develop the Society Management System Application, begin by analyzing the requirements and user needs, followed by designing the system architecture and selecting suitable technologies. Adopt an Agile development approach, creating a prototype for early feedback. Implement core features including user registration, communication tools, facility management, financial modules, and robust security measures. Conduct comprehensive testing, ensuring high-quality standards, and deploy the application, providing user training and support. Gather post-deployment feedback for iterative improvements, while ensuring ongoing maintenance and support for seamless operation and user satisfaction.



CONCLUSIONS

The MySocietyPal project is on a mission to tackle the challenges that often arise when managing residential societies. We're dedicated to using cutting-edge technology and creating effective ways for people to communicate. Our goal is to give both residents and administrators the tools they need to work together smoothly. This way, we can build an environment where everyone cooperates, understands each other, and gets things done efficiently. As we set out on this journey to enhance community living, we extend a warm invitation to all to be part of this movement. This, we believe, will lead to a more peaceful and pleasant living experience for all. By coming together, we can forge a path towards a future that is not only brighter but also more sustainable. Join us in making this vision a reality!

ACKNOWLEDGMENT

Success of a project like this involving high technical expertise, patience, and massive support of guides, is possible when team members work together. We take this opportunity to express our gratitude to those who have been instrumental in the successful completion of this project. We would always cherish the journey of transforming the idea of our project into reality.

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