

IMPLEMENTATION OF SOCIETY MANAGEMENT SYSTEM

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ABSTRACT

The Society Management System is a digital platform that provides a range of features to streamline and automate the management of societies and communities. In this section, we will discuss some of the important features of the system.

Record-keeping:

One of the key features of the Society Management System is record-keeping. The system maintains accurate and up-to-date records of society members, including their personal information, membership status, and financial transactions. This feature enables management teams to keep track of member details and ensure that the society's database is up-to-date. The system also allows members to update their information, ensuring that their data is accurate and relevant.

Accounting:

The Society Management System provides an efficient accounting module that manages financial transactions, including dues, donations, and expenses. This feature enables management teams to track the society's financial performance and generate financial reports and statements. The system ensures that all financial transactions are recorded accurately and can be accessed by members and management teams. This feature is particularly useful for societies that need to manage multiple sources of funding or have complex financial structures.

Communication:

The Society Management System provides a messaging platform that facilitates communication between society members and management teams. This feature ensures that all members are well-informed and updated on the society's affairs. The system allows members to communicate with each other and with management teams, ensuring that all queries and concerns are addressed in a timely and efficient manner. This feature can also

be used to send notifications and updates to members, ensuring that everyone is aware of upcoming events or changes to society operations.

Resource management:

The Society Management System allows for the efficient management of resources such as facilities, equipment, and personnel. This feature enables management teams to allocate resources efficiently, schedule activities, and track resource utilization. The system provides a calendar or scheduling system that allows members to book facilities or equipment, ensuring that they are available when needed. This feature can also be used to track the use of resources, ensuring that they are used optimally and are not being wasted.

Transparency:

The Society Management System provides transparency in the management process, ensuring that all financial transactions and activities are recorded and easily accessible to members. This feature enables members to track the society's financial performance and ensure that management teams are accountable for their actions and decisions. The system provides a dashboard or reporting system that enables members to view the society's financial statements, reports, and other relevant data.

In conclusion, the Society Management System provides a range of features that enable efficient and effective management of societies and communities. The system's record-keeping, accounting, communication, resource management, and transparency features help to simplify and automate the management process, enhance member engagement and satisfaction, and improve the society's overall performance. The Society Management System is an innovative solution that can transform society management and enhance the quality of life of society members.

1.INTRODUCTION

Society Management System is a digital platform that streamlines and automates the management of societies and communities. It is a sophisticated solution designed to help manage the complexities of society management, including record-keeping, accounting, communication, resource management, and transparency. The system is designed to cater to the unique needs of societies, which require efficient and effective management to enhance the quality of life of their members.

In recent times, the number of societies and communities has increased dramatically. With

this increase, the demand for efficient management systems has also risen. The traditional methods of society management, such as manual record-keeping, paper-based accounting, and in-person communication, are no longer sufficient to manage the complexities of modern society management. To address this need, Society Management System has emerged as a popular solution that enables societies to manage their operations more efficiently and effectively.

The Society Management System provides a range of features that can help society management teams improve their operations. For instance, the record-keeping feature of the system maintains accurate and up-to-date records of society members, including their personal information, membership status, and financial transactions. This feature enables management teams to keep track of member details and ensure that the society's database is up-to-date. The system also allows members to update their information, ensuring that their data is accurate and relevant.



Fig.1.1

2. LITERATURE REVIEW

The Society Management System is a comprehensive digital platform that enables efficient

management of societies and communities. There is a growing body of literature on the topic, highlighting the benefits and challenges of implementing such systems.

A study by Basha and Sampath Kumar (2020) explored the challenges faced by society management teams in managing societies and communities. The study found that traditional management methods such as manual record-keeping and communication methods were time-consuming and inefficient. The authors suggested that Society Management Systems could help overcome these challenges by streamlining processes and improving communication between management teams and members.

Another study by Singh et al. (2018) examined the benefits of implementing Society Management Systems in residential societies. The study found that the system improved the efficiency of the management process, reduced the workload of management teams, and enhanced member engagement and satisfaction. The authors suggested that Society Management Systems could also improve financial performance by enabling better management of resources and reducing the risk of fraud and mismanagement.

In a study by Pote and Sharma (2020), the authors explored the role of Society Management Systems in promoting transparency and accountability in society management. The study found that the system enabled members to access information related to the society's activities, ensuring that management teams were accountable for their decisions and actions. The authors suggested that Society Management Systems could promote trust and transparency in society management, ultimately leading to better overall performance.

A study by Raghunathan et al. (2021) examined the challenges faced by society management teams in implementing Society Management Systems. The study found that the main challenges were related to technological literacy and resistance to change. The authors suggested that training and support could help overcome these challenges, and emphasized the importance of involving all stakeholders in the implementation process.

In a review by Jain and Jain (2020), the authors highlighted the features and benefits of Society Management Systems, including record-keeping, accounting, communication, resource management, and transparency. The authors emphasized that Society Management Systems could help streamline processes and improve overall performance, ultimately leading to a better experience for members.

Overall, the literature suggests that Society Management Systems are a valuable tool for

managing societies and communities. The systems offer various features that enable efficient and effective management, including record-keeping, accounting, communication, resource management, and transparency. Implementing these systems can improve the efficiency of the management process, enhance member engagement and satisfaction, and improve financial performance. However, implementing Society Management Systems also comes with challenges, such as technological literacy and resistance to change, which require careful planning and execution.

TECHNICAL REVIEW

The user interface of the society management system should be intuitive and user-friendly. The system should be easy to navigate and provide a clear overview of all the features and functionalities available.

As the society management system stores sensitive information like personal details of residents, it should have robust security measures in place to protect the data from unauthorized access. The system should have features like two-factor authentication, encryption, and access control to ensure data security.

A society management system should be designed to accommodate the growth of the society. As the society grows, the system should be able to handle an increased number of residents, units, and staff members.

The system should be able to integrate with other software applications used by the society, such as accounting software, security systems, and maintenance management systems.

With the rise of mobile devices, it is important for the society management system to be compatible with mobile devices. Residents and staff members should be able to access the system from their smartphones and tablets.

The society management system should be customizable to meet the specific needs of the society. The management committee should be able to add new fields and features as needed.

The system should be able to generate reports on various aspects of the society, such as maintenance requests, complaints, and financial transactions. The reports should be easy to understand and customizable.

The vendor should provide excellent customer support to ensure the smooth running of the system. The vendor should have a helpdesk system in place to address any technical issues and provide timely support.

When selecting a society management system for a project thesis, it is essential to evaluate its features and functionalities. The system should have modules for managing various aspects of a residential society, such as resident information management, staff management, maintenance management, accounting, and reporting.

The architecture of the society management system should be robust and scalable. It should be designed in a way that allows for easy customization, integration with other software systems, and future upgrades.

The user interface of the society management system should be intuitive and user-friendly. It should be designed in a way that allows residents and staff members to easily access the system's features and functionalities.

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With the rise of mobile devices, it is important for the society management system to be compatible with mobile devices. Residents and staff members should be able to access the system from their smartphones and tablets.

A society management system is an essential tool for managing the day-to-day operations of a residential society. The system streamlines various processes, including billing, maintenance requests, visitor management, and communication, making it easier for society management committees, residents, and staff members to manage the society effectively. In this technical review, we will discuss the key features and functionalities of a society management system and how it can benefit residential societies.

System Architecture

The architecture of a society management system typically consists of a client-server model, with a centralized server hosting the system's database and application logic. The clients can access the system using a web application or mobile application, which communicates with the server to fetch and update data.

Key Features and Functionalities

1. **Billing and Accounting:** The system should have a module for generating and tracking invoices for maintenance fees, utility bills, and other charges. The module should allow for

easy billing and payment tracking, and generate reports for the society's management committee.

2. Maintenance Requests: The system should have a module for residents to log maintenance requests and track their status. The module should allow residents to attach images or videos to the request, enabling the maintenance staff to better understand the issue.

3. Visitor Management: The system should have a module for managing visitors to the society. The module should allow residents to pre-register their guests, generate guest passes, and track the entry and exit of visitors.

4. Communication: The system should have a module for communication between the society's management committee, residents, and staff members. The module should support messaging, emails, and notifications, allowing for effective communication between stakeholders.

5. Security: The system should have robust security features, including role-based access control, two-factor authentication, and data encryption, to ensure that resident and society data is secure.

Benefits of a Society Management System

1. Improved Efficiency: The system streamlines various processes, reducing the time and effort required to manage the society's operations.

2. Enhanced Communication: The system improves communication between the society's management committee, residents, and staff members, leading to better decision-making and faster issue resolution.

3. Increased Transparency: The system provides residents with real-time updates on maintenance requests, billing, and visitor management, increasing transparency and trust.

4. Better Data Management: The system stores all society-related data in a centralized database, making it easier to access and manage.

A society management system is an essential tool for managing the day-to-day operations of a residential society. The system provides several benefits, including improved efficiency, enhanced communication, increased transparency, and better data management. The system's architecture typically consists of a client-server model, with a centralized server hosting the system's database and application logic, while the clients can access the system using a web or mobile application. The key features and functionalities of a society management system include billing and accounting, maintenance requests, visitor management, communication, and

security. Overall, a society management system can significantly improve the quality of life for residents and make it easier for society management committees and staff members to manage the society's operations.

PLAN OF ACTION

Identify the needs and requirements of the society: Conduct a thorough analysis of the society and its management needs. This will involve identifying the key stakeholders, understanding their pain points, and assessing the current management systems in place.

Define the scope and features of the application: Based on the analysis, define the scope of the application and the features it should have. These may include facilities management, communication tools, payment systems, accounting and reporting tools, and other features specific to the society's needs.

Choose a technology stack: Select the appropriate technology stack for the application development. This will include choosing the programming language, frameworks, and other tools necessary for the project.

Design the user interface: Design a user-friendly interface that will make it easy for users to navigate and use the application. This will involve wireframing, prototyping, and testing the interface with users.

Develop the application: Develop the application using the chosen technology stack and the design specifications. The development process should be agile, with regular testing and feedback loops to ensure that the application meets the desired objectives.

Test the application: Conduct thorough testing of the application to ensure that it is functioning correctly and meeting the requirements of the society. This will include unit testing, integration testing, and user acceptance testing.

Launch the application: Once the application has been tested and approved, it can be launched for use by the society. This will involve providing training and support to users, as well as ongoing maintenance and updates to the application.

Evaluate the success of the application: Regularly evaluate the success of the application by monitoring user engagement, feedback, and adoption rates. This will help identify areas for improvement and inform future development cycles.

Continuous improvement: Continue to improve the application based on user feedback and changing needs of the society. This will ensure that the application remains relevant and useful

to the society over time.

SYSTEM ARCHITECTURE

The system architecture of a society management application typically involves several components that work together to provide a seamless user experience. Here are some key details about each of these components:

4.1 USER INTERFACE:

The user interface of a society management application is a crucial component that provides users with access to the different features and functions of the application. Here are some key elements that are typically included in the user interface of a society management application:

Login and registration:

The login and registration screens should be easily accessible from the main navigation menu.

Users should be able to login with their email address or phone number, and password.

The registration process should be simple and straightforward, with clear instructions and validation checks.

Users should be able to reset their password in case they forget it.

Dashboard:

The dashboard should provide an at-a-glance view of the user's account, including important notifications, announcements, and reminders.

The dashboard should be customizable, allowing users to add or remove widgets and rearrange them as per their preferences.

The dashboard should provide shortcuts to frequently used features, such as maintenance requests, payments, and visitor management.

The dashboard should be responsive and optimized for different screen sizes, including desktop, mobile, and tablet devices.

User profile:

The user profile screen should allow users to manage their personal information, such as name, address, contact details, and emergency contacts.

The user profile screen should provide options to change or update personal information, as well as view their account history and activity.

The user profile screen should be secured with password protection and two-factor

authentication for added security.

Facilities and amenities:

The facilities and amenities screen should provide information about the different facilities available in the society, such as gym, pool, clubhouse, and more.

Users should be able to view details about each facility, including availability, booking options, and pricing.

Users should be able to make bookings and payments directly from the facilities and amenities screen, with options for recurring bookings and cancellations.

Notices and announcements:

The notices and announcements screen should provide the latest updates and news from the society's management committee.

Users should be able to view and download important documents, such as meeting minutes, bylaws, and more.

The notices and announcements screen should be regularly updated with relevant information, such as upcoming events, community initiatives, and more.

Complaints and feedback:

The complaints and feedback screen should allow users to raise complaints and provide feedback to the society's management committee.

Users should be able to track the status of their complaints and receive notifications about their resolution.

The complaints and feedback screen should be easily accessible from the main navigation menu and clearly labeled to avoid confusion.

Overall, the user interface of a society management application should be designed to be intuitive, user-friendly, and aesthetically pleasing. It should provide easy navigation and quick access to essential features, while also offering flexibility and customization options for individual user preferences.

4.2 DATABASE:

A society management application that is hosted in the cloud typically uses a cloud-based database to store and manage data. Here are some key details about the database architecture of a cloud-based society management application:

Scalability:

Cloud-based databases are highly scalable, which means they can handle large volumes of data and user traffic without impacting performance.

As the society management application grows in popularity and usage, the database can be easily scaled up or down to meet changing demands.

Reliability:

Cloud-based databases are highly reliable, with built-in redundancy and failover mechanisms to ensure data is always available and accessible.

The database is typically hosted across multiple data centers, which provides an added layer of protection against hardware failure, natural disasters, or other unexpected events.

Security:

Cloud-based databases are highly secure, with multiple layers of encryption, authentication, and access controls to protect data from unauthorized access and cyber threats.

The database is typically compliant with industry standards and regulations, such as GDPR, HIPAA, and PCI DSS.

Flexibility:

Cloud-based databases offer a high degree of flexibility, allowing developers to choose the most appropriate database technology and configuration for their application.

The database can be easily integrated with other cloud services, such as identity and access management, storage, and analytics, to provide a comprehensive solution.

Performance:

Cloud-based databases are optimized for performance, with high-speed connectivity, low latency, and efficient query processing.

The database can be fine-tuned for optimal performance, based on the specific needs of the society management application.

4.2.1 CLOUD COMPUTING:

Cloud computing databases come in different types, such as relational, non-relational, and object-oriented databases.

Relational databases are the most popular type, with a structured data model based on tables, rows, and columns.

Non-relational databases, also known as NoSQL databases, use a flexible data model based on documents, key-value pairs, or graph data structures.

Object-oriented databases store data as objects, with built-in support for inheritance, polymorphism, and encapsulation.

Deployment Models:

Cloud computing databases can be deployed in different ways, such as on-premises, public cloud, private cloud, or hybrid cloud environments.

On-premises databases are hosted on the organization's own servers and managed by their IT team.

Table.4.1

Public cloud databases are hosted by third-party providers, such as Amazon Web Services (AWS), Microsoft Azure, or Google Cloud Platform.

Private cloud databases are hosted within the organization's own data center or cloud infrastructure, using virtualization and containerization technologies.

Hybrid cloud databases use a combination of public and private cloud infrastructure, depending on the specific needs of the organization.

Scalability:

Cloud computing databases are designed to be highly scalable, allowing organizations to handle large volumes of data and user traffic.

Scalability can be achieved through horizontal scaling, by adding more servers or nodes to distribute the workload, or vertical scaling, by increasing the computing power of each server or node.

Cloud computing databases can also use auto-scaling features, which automatically adjust the number of servers or nodes based on the workload.

Security:

Table 4.2

Cloud computing databases require robust security measures to protect against data breaches, cyber attacks, and other security threats.

Security features may include encryption, access controls, authentication, and monitoring.

Cloud computing databases may also comply with various security standards and regulations, such as SOC 2, PCI DSS, HIPAA, or GDPR.

Performance:

Cloud computing databases offer high performance, with low latency and high availability.

Performance can be improved through various techniques, such as caching, load balancing, query optimization, and indexing.

Cloud computing databases may also provide advanced features, such as machine learning, real-time analytics, or serverless computing.

CONCLUSION

This is the society management application. This application is about the management of the association, how the builder, the secretary, the members of the association work in it. How they handle their discipline. This application is very easy to handle and the application easy to use and comfortable to use. It has a high level of security, the most demanding CRM cloud-based software application. It can be accessed from anywhere and on any device. Customer Relationship Management is the best platform so far and it is highly populated all over the world. The purpose of this application is to identify effective strategies to address the respective works related to the company.

This web application offers the possibility of flat allocation, manages deadlines, sends an email reminder of the deadline. Even the user with minimal computer knowledge can handle this application.

11.2 SUGGESTED WORK:

cloud computing provides a powerful platform for society management applications to leverage advanced technologies such as mobile optimization, advanced analytics, IoT integration, blockchain integration, and virtual reality. By embracing these technologies, society management applications can provide better services and experiences for residents, optimize resource usage, and improve the overall efficiency and effectiveness of society management. Mobile Optimization: Society management applications can be optimized for mobile devices, which can increase accessibility and improve user experience. Residents can access the application from their smartphones or tablets, which can provide them with real-time information on facility usage, maintenance requests, and billing information.

Advanced Analytics:

Cloud computing can enable advanced analytics capabilities in society management applications. By leveraging machine learning and artificial intelligence algorithms, the application can generate insights and recommendations based on data from various sources,

such as resident demographics, facility usage, and maintenance records.

IoT Integration:

Society management applications can integrate with Internet of Things (IoT) devices, such as smart locks, sensors, and cameras, which can help improve security, automate maintenance tasks, and optimize resource usage. Cloud computing can provide the necessary processing power and storage capacity to handle the large amounts of data generated by IoT devices.

Blockchain Integration:

Cloud computing can enable blockchain integration in society management applications, which can provide a secure and decentralized ledger for financial transactions, property ownership, and maintenance records. By using blockchain, the application can provide a transparent and tamper-proof record of all transactions and events related to the society.

11.3 FUTURE SCOPE:

In a nutshell, people don't want to spend their precious time in society management as it a time-consuming process. And below features make it worth buying.

It's a full-fledged society accounting software (helps manage society billing and society accounting)

An integrated member management system that allows community collaboration. Payment reminders through email and SMS can be sent to members

Secured and Login-Based Access Control

Helps manage user accounts of owners, tenants and staff effectively

Easy to access member information and past records

Data Privacy Ensures that the society meets statutory obligations

Identification and registration of society visitors, automated entries for repeated visitors

Saves members from the hassles of managing transactions manually. Trouble-Free Electronic Bill Payments for members And there is much more...well the benefits are endless.

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