

Society Management Application on Android

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Abstract: Daily life in city areas has important things to deal with housing society management. Our day to day needs such as Water supply, Electricity, Security and many more things which directly or indirectly plays the vital role in residential life, comes under Housing Society Management. In most of the cases, Society management practices a traditional way of communication. This certainly has some limitations and disadvantages. Daily notices, monthly meetings, cultural events, miscellaneous contacts for daily needs, security alerts, high priority communication and many others which may not be conveyed properly in current scenario as most of the things are getting handled manually. It lacks transparency.

To overcome the problems occurring due to this time lagging manual system, an automated system needs to be developed to reduce the human efforts.

Key Words: Society Management, Flat owner, QR code, Online Payment, Society Maintenance Amount.

1. INTRODUCTION

In society all jobs are decided in meetings and maintenance bills, contact no of members are noted in the papers. There is no automated system for doing all the things that generally happen in society so that members can come to know what is happening in society.

This system of maintaining a society is made in such a way so that the most common problem faced by residential societies are solved. This system is a cloud-based system to manage the day - to - day activities of any cooperative housing society. They need the coordination between the respective management societies coupled with the vendors which provide these services so that the appropriate convenience can be provided. The main functionality of this project is that there are an online billing and accounting (payment gateway integration, income & expense tracking, etc.). In this system, the bills, receipts, and vouchers are created in an easy manner also the system is user-friendly.

2. RELATED WORK

The housing society system [1] which is created using the cloud. The system generates monthly maintenance, online bill payment system and the member can view their bill status on their account. The system is implemented and SMOonline on the local server. SMOonline is based on a website server. This type is based on a website and requires an internet connection. The smart way of communication in society through an android application SocieTales [2] i.e

Tales in Society is done. This application gives an automated man to man communication.

An android application for housing society management and hardware implementation of visitors parking using sensors is explained in [3].

Image recognition system for managing the perils of the society is given. The system is integrated with RFID technology which manages and tracks the visitors that enter the society. The Emergency Management System (EMS), [5][6] which enables smartphone based ad-hoc communications at disaster times over Wi-Fi is implemented. The Sever is implemented as a Web-Based Java Application and tested the System using several real Android Phones with GPS on phone, clients communicating over Wi-Fi.

3. EXISTING SYSTEM

In the existing housing society management system a traditional way of communication is used which include a common notice board system operated by responsible society member. The data is stored in the files and the processing of the data is done manually and the report generation is slow. In notice board system one has to take whole responsibility to operate and maintain the notice board. It creates dependability with the specific person. Sometimes the person has to compromise with his own time schedule for these common activities.

It is observed that complaints by society members are neglected by higher management because one has to take constant follow up until the issue gets solved.

4. PROPOSED SYSTEM

To overcome the drawbacks of the existing system, Here we provide a smarter and efficient way to handle the critical issues by reducing efforts and advancements in a reliable communication. Different functions in the society like Complaints, Meetings, Notices, Suggestions, Rules, Miscellaneous Contacts will available within a single sight so that user can observe it and make use of it whenever is necessary.

We propose an application which will be useful for all the society members to get constantly update with society related information. This System allows to log in for staff/security/ at owner with unique QR code containing their name, password, address, phone number.

Society members can know the society maintenance amount and get SMS notification for the same. Once payment is made, history of all last payments is stored in the database. It will be the very much reliable way of communication. Any at member can ask for plumber, carpenter, electrician, and society will arrange them for the flat members. Each technician is assigned an id card with QR code details. The flat owners can report coming guests so that they do not have put the entry in society register. By using this application member or Secretary can view CCTV footage, security and staff attendance can also be checked. The payment of monthly bills done online. This application provides an easy solution for management and maintains the daily functions within society in more disciplined and easy way. It is the smarter efficient way of communication between society residents and higher authorities.



Fig 3: Monthly Payment

Flat owner can pay the monthly bills like maintenance, Light bill through an app like shown in above figure.3.



Fig 1: System Architecture

5. RESULTS

The system's GUI was designed using java JSP. Core Technologies used were Java, JSP. The overall development was done in the Eclipse 3.3 Indigo and for DB we used MY SQL GUI browser.

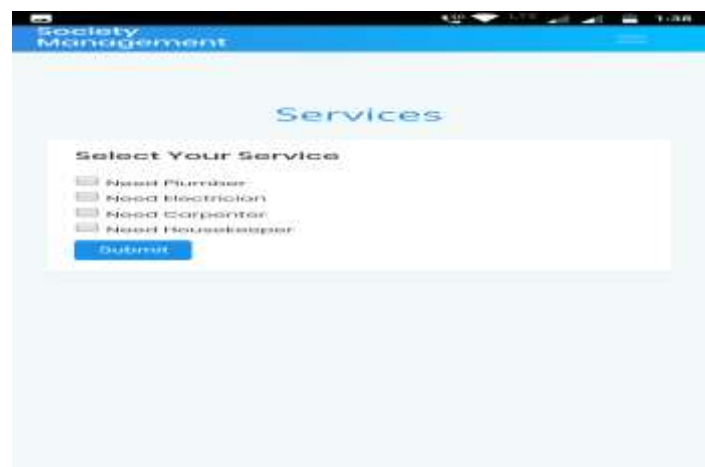


Fig 4: Services

Flat members can place the request for the services which they required so that staff can arrange the plumber, carpenter, electrician, for the flat members .



Fig 2: Society Events

All the society events can be managed online with all the details like event organised by, Occasion, venue. So that all the society members gets the invitation.



Fig 5: Register Issue

Flat members can register issue if any and submit it so that the higher authority can go through it solve it. So there is no need to go personally for the any issue.



Fig 6: Guest list

All flat members guest list is maintained with details shown in figure 6. Staff attendance can manage online.



Fig 7: Attendance

6. CONCLUSIONS

We are developing an android application for housing society management to reduce the human efforts and errors to increase crystal clear transparency between society members and management.

It also helps to reduce the time and efforts for manual communication in society by providing the notifications and important information to the society members in the reliable and transparent way.

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