

# Android Based Society Management System

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**Abstract:** This paper represent the working system of Residential Society Management with the help of Android application. It makes the working in the society simple and efficient. As we know there is an increase in population and also the residential society complexes. Generally in various Residential society's communication regarding activities takes place through traditional means of communication like meeting in person or notices displayed on board. This may lead to improper conveying of information due to missing of transparency. To avoid such complexes and to manage day to day society functions an automatic detailed generation of these tasks is required Society management system reduces the complexes that occur within the society by providing facilities such as maintenance generation details,, permanent and rental flats details, complaint forum ,society meeting details ,events of society etc. It generates all the activities that occur within the society and makes it easy for the members of the society an easy access to the society happenings and updates.

**Keywords:** Society Management, android, database, events, maintenance generation, Residential society, emergency contacts, transparency.

## INTRODUCTION

Now a days, android is the most popular platform in the smart mobile communication. Till date all the Society management have been done by manual paper work which has been used to keep records. This certainly has some disadvantages. And Android is open source and having flexible and customizable user interface, thus one of the most popular mobile operating System(OS).This project uses Push Notification Technology through android platform. The application mainly featured with solution for day to day notifications for meetings, electricity management, parking, miscellaneous contacts, security alerts and high priority communication. It helps in reduction of the manual efforts and to increase transparency between society members and management. It will save time duration required for updating, paper work, and human efforts and easy availability of notices, monthly meetings, events, emergency contacts high priority communication and many others which may not be conveyed properly due to certain conditions as most of the things are getting handled and dine manually.

## LITERATURE SURVEY

To convey notices, events and other details we have been using ways like contacting the higher authority/chairmen to convey complaints suggestions, problems although there are certain societies that happen to use electronic means of communication like automated chat system but due to lacking use of widely used platform or dedicated functionality they were not used on a large scale. Different functions within society such as complaints ,meetings ,notices ,suggestions ,rules ,miscellaneous contacts will be available within a single sight s that user can navigate easily. It will provide multiple reminder for particular event that will reduces the manual work of admin as he would not require to take follow up of reachability of information. Complaints and suggestions can be directly attended by the admin/chairman .Through this application admin will be able to create particular event or notices and circulate it amongst the society members in less time.

## PROPOSED PROJECT

Modules used in the design of Residential Society

A.ADMIN

B.USER

ADMIN will manage the society maintenance, accounts, generates events uploads notices and society rule.

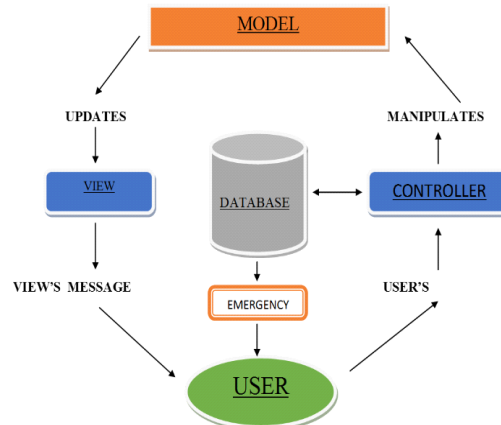
USER gets notifications regarding maintenance, notices events user can lodge complaint and also suggest their opinion to the admin.

EVENTS: Various cultural and calendar events that occurs in the society generated

EMERGENCY CONTACTS: Emergency numbers like fire brigade, ambulance, police station house cleaning and laundry services numbers provided

MEETING: Agenda of meeting date, time regularly updated.

COMPLAINT/FORUM: Complaints regarding society problems can be communicated to the admin personally and on general platform.



**TECHNOLOGY USED**

We are using Android and for storing records we use MySQL. We use Rest API for connecting our android app with database and PHP as bridge between android and MySQL.

**NEED OF SOCIETY MANAGEMENT SYSTEM**

Reduce paper work. As in today’s life style each and every person is using smart phones. So it easy to convey through mobile. If any notice is to be sent to the members of society then the person (admin) who is in charge of the meeting will send the notice through this application which will save his workload and paper work of sending notice to each and every person.

**FUTURE SCOPE**

Later on the Project can be modified to work on all kinds with security features that will be added in it. And we are planning to run the application on different Operating System (Apple iOS, Windows Store).

**PROPOSED ALGORIHTM**

AES ALGORITHM of the small key length the DES is no longer considered as safe for today’s applications. AES come up with key length 128bit using the symmetric block cipher. AES algorithm is not only for security but also for great speed. The encryption steps are as follows.

- The set of round keys from the cipher key.
- Initialize state array and add the initial round key to the starting state array.
- Perform round = 1 to 9: Execute Usual Round.
- Execute Final Round.
- Corresponding cipher text chunk output of Final Round Step.

DES ALGORITHM DES algorithm was developed at IBM in 1972 by Horst Fiestel. DES algorithm purpose is to provide a standard method for protecting sensitive commercial and unclassified data. The encryption steps are as follows.

- DES accepts an input of 64-bit long plaintext and 56-bit key (8 bits of parity) and produce output of 64 bit block. The plaintext block has to shift the bits around.
- The 8 parity bits are removed from the key by subjecting the key to its Key Permutation.

**CONCLUSION**

Our application tries to make users easily understand and the essential functions. And both managing committee and residents have the same application installed with the maintenance generation and financial report generation features disabled at the resident side. This is done by keeping two separate login type for both types of users. Both types of



users have similar rights over remaining features like viewing and posting notice board, adding and getting notified by calendar events and accessing society member contacts and the emergency contacts.

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## BIOGRAPHIES

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