

Smart Housing Management System

AmitKumar Mourya^[1] Sachin Nayak^[2] Amol Salunkhe^[3] Mandar Ganjapurkar^[4]

¹Engineering Student, ²Engineering Student, ³Engineering Student, ⁴Assistant Professor

¹Computer Engineering Department,

¹K. C. College of Engineering and Management Studies and Research, Mumbai, India

Abstract : Three basic necessity of any man living in this planet is food, clothing and shelter. Nowadays the major problem is to handle the workload of co-operate world along with fast growing complexes .In this fast growing technology world today's society uses the old pen and paper based method .This paper discusses about the implementation of online web application for housing management system .Online Housing management system reduces the squabbles that arise within the society by providing facilities such as online Maintenance payment, voting system, accounts handling, rent and sales advertisement, daily notices, monthly meetings, cultural event message using push notification.

IndexTerms - Web application, Database, Push Notification.

i. INTRODUCTION

Nowadays everyone has a smart phone and the major problem arises with them is limited storage. So the demand of web application increases day by day because it does not require any space. A web application is open source and having flexible and customizable user interface, thus one of the most popular Technology. This project mainly uses "Push Notification Technology" through cloud platform. The application implement most of the task of society such as daily notices, online maintenance payment ,voting system, rent and sales advertisement, complaint box, monthly meetings notification ,cultural event notifications.

ii.LITERATURE SURVEY

This is a study of various research paper of web application for online maintenance payment system and voting system, Google cloud messaging, web application related to notification system. The idea behind this paper is to study various methods and techniques to push notification on various android devices. It follows principle of cloud computing and distributed computing. There are many handful technologies, which push data or content on mobile devices/tablets. The need of technologies studied are Google Cloud Messaging (GCM), C2DM (Cloud to Device Messaging) and Xtify is for authenticating a user, as well as handling all aspects of messages and delivery to the target application on the target device. The basic notification application is implemented using Google Cloud messaging.Google Cloud Messaging for web application (GCM) provides a facility to send data from server to Android mobile device of user, and also receives messages from other devices within a network according to Android developer website, "a service that helps developers sends data from servers to their Android applications on Android devices." Hence, the overall purpose and scope of this project is reachable by Push notification technology (GCM).

iii. EXISTING DESIGN

In current situations, housing society management authorities use a traditional way of communication which include a common notice board system operated by responsible society member. There is no option of online maintenance payment.

3.1 Notice Board System

3.1.1 Failure in Updation

Notice board method is a older method which is use by many society.the main problem in this is that if admin fails to update the otice board or some time member are fails to see the notice board the leads lost of communication.

3.1.2 Complete Dependency on admin:

The problem in this is whole society gives a responsibility to a single person to update notice board. Therefore that person has to manage its schedule in order to update notice board. these leads to time consumption activity.

iv. PROPOSED SYSTEM

To overcome the drawbacks of existing system, this paper is proposing a smarter way of communication and make life simple and efficient. As discussed earlier an automated notification system can be developed using a very popular web application technology which will provide a user friendly mobile and web based application which can be beneficial on following fronts:

4.1 Continous Remainder

The application can provide gentle reminders through automated system till the actual event execution. It will reduce human efforts for member to member follow up. Once the event is created by admin, rest of the things will be taken care by application itself. It will definitely reduce the chances of errors and miscommunication.

4.2 Notification facility

In this application admin can create an event within a minute and push a notification to all the society member.

4.3 Online payment and Voting facility

As we see in many society there is lack of online maintenance payment and voting facility which is done manually by today's society. Therefore to overcome this problem we have made it complete online system to handle this problem.

4.4 Complaint Management

As we see in many society's the manager does not take much attention toward problem of individual complaint so we introduce this feature in my application to help the individual in the society.

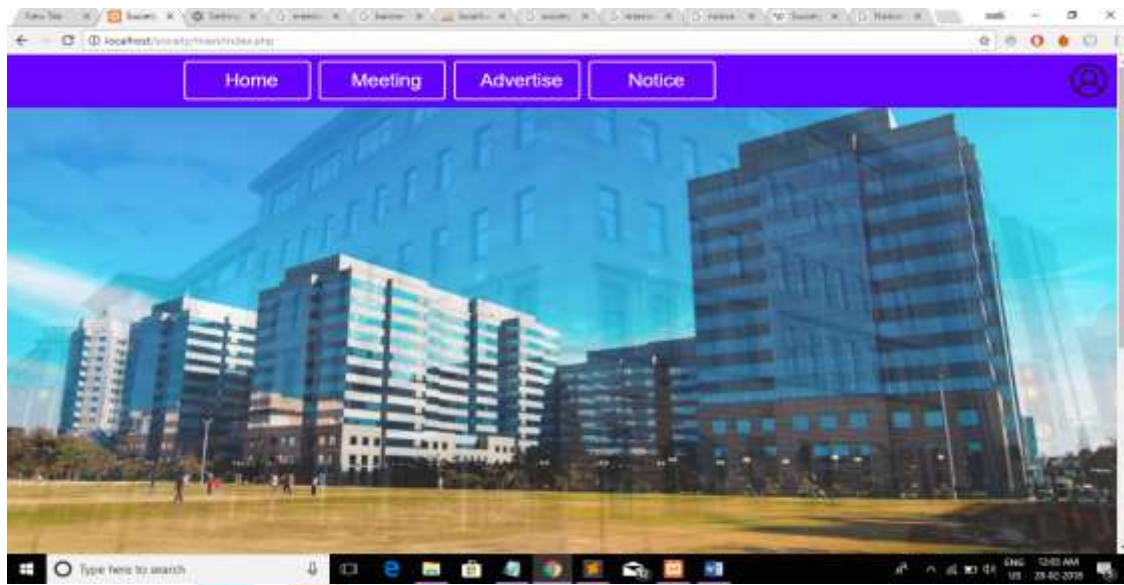


Fig 1: HomePage



Fig 2: Meeing Section

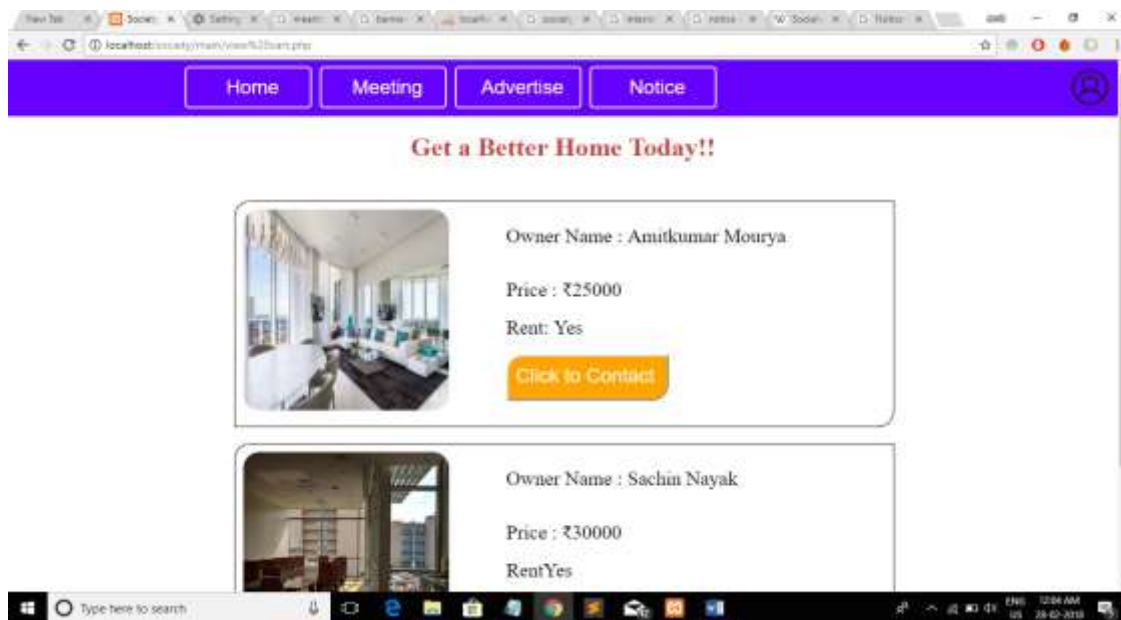


Fig 3: Advertising Section



Fig 4: Notice Section

v. CONCLUSION

We have developed this application for the fast growing world for which every minute is important and due to heavy workload they cannot even know about what was going in their society. So to get regular update from there society and to get in touch of society they can use our application. In this application we will provide all the information about their society such as cultural event, Navratri, Ganesh Chaturthi. Along with this they will also get the meeting scheduled, meeting videos in case they have missed to attend the meeting. Also they can put adds about the rent, business and lots more.

vi. FUTURE SCOPE

The project can be enhanced by including the live meeting session if anyone want to attend the meeting from remote area then the can attend it. Also one can provide an app to the gatekeeper which is connected to main application so in case of emergency he or she can alert all the members in the society.

The society member should connect with the live cameras which are placed around the society. Connecting through live cameras member can track the ongoing events and it also used for security purpose

VII. REFERENCES

- i. UshalPatadia ,“Web Portal: Housing Society Management System ”, Int.Journal of Engineering Research and Applications ISSN : 2248-9622, Vol. 4, Issue 2(Version 1), February 2014, pp.547-551.
- ii. Grzegorz Hayduk, Pawe Kwasnowski,Zbigniew Miko ,“Building Management System architecture for large building automation systems ”, 17th International Carpathian Control Conference (ICCC) ,2016.
- iii. Hui Shao, Haijian Fu, “Design and implementation of intelligent building engineering information management system ”, 7th International Conference on Intelligent Computation Technology and Automation ,2014. IMAOKA Hitoshi,“ The World’s Best Face Recognition System to Achieve Safety and Security in Our Society ” NEC.

