SURVEY PAPER ON HOUSING SOCIETY MANAGEMENT SYSTEM

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Abstract— *"Simplicity is the ultimate sophistication". The Housing Society Management System aims to make the current situation in society simple and efficient. During a pandemic such as the current covid-19, it's not appropriate to step out of the house for tasks such as viewing the notice board or conveying an important message to flat mates. Housing Society Management System eases all the problems within the society by providing a huge variety of facilities such as Daily notifications, Monthly meeting schedules, updates on cultural events to be organized by the society, breakdown of funds distribution for maintaining transparency within the society, Special Health care facility; this feature generates an SOS signal on the devices of all the society members if any member falls ill or is seriously injured and in need of help this feature will be very beneficial in the current situation that has arisen due to the infamous COVID -19 pandemic this system also contains a chatbot which will help the members to navigate through the app and access all the features of the app. This application provides an easy mechanism with which every resident can easily access all the social happenings and the events in the society . There's also a feature which provides emergency services like doctors/nurses aid.*

Keywords— Android, Mobile Application, Notice, Messaging, Complaints, Social Grouping, Health Tracker.

1. Introduction

Society Management System whose main objective is integrating multiple applications into one single Android application for managing notices, health related updates and social activities. It also helps to manage the events and give updates regarding the event in the application. It notifies important issues & complaints about the existing problems (water, cleanliness).Society Management Application on Android is an application where all the information regarding all the society activities will get updated to the members.

2. Literature Survey

A. Study of Implementation of Society Management System: This application was developed by Shivganga Gavhane, Rutuja Vatharkar, Swati Sonar, Pratiksha Patil. This was an android application which contained features like Notice Board, Calendar, Contact, Maintenance, Financial Report, Complaint or Suggestion. To overcome the drawbacks of the existing system, the application

provided an efficient way. It also had a special feature called "Push Through Notification" which helped in efficient usage of roles to the society members[1].

B. Housing Society Management Web Application with recommendation system: This application was developed by Saurabhi Raut, Priyanka Pawar , Masira Shaikh, Neha Bhat, Prof. P.N. Kalavadekar. This web application helped in improving the sociality of the society by helping them interact with each other by becoming a member of a cultural or sports group. This application also helped the residents to give complaints and suggestions via the application instead of personally meeting the chairman to give them. Alos once the complaint or suggestion is resolved , it is updated in the application. Due to this, the residents are always updated of the current affairs regarding the society matters and they can also participate in various events. [2].

C. Society Management Application on Android: This application was developed by Rahul Bhagwat, Aashay Bharadwaj, Vivek Harsode, Anurag Chawake, Mrs. Deepali Bhanage. This android application contained features like QR code authentication, Online Payment, Society Maintenance Amount. To surmount the drawbacks of the subsisting system, they provided a more astute and efficient way to handle the critical issues by truncating efforts and advancements in reliable communication. Different functions in the society like Complaints, Notices, Meetings, Rules, Suggestions, Miscellaneous Contacts were available within a single visual perception so that users can visually examine it and make utilization of it whenever is obligatory[3].

D. Housing Society Management: This application was developed by Shantanu Kudale Chandan Amarnani, Harshal Sawakare, Shubhankar Kokate, Sujata Kadu. To overcome the drawbacks of the current system this project provided a simple and efficient way of communication via an android app. This application had a feature which enabled the person to person communication. Different functions within society like Complaints, Notice, Meetings, Rules, Suggestions, Miscellaneous Contacts were available at a glance so that the residents can use any of the features easily. This application also reduced the work of the admin by providing calendar events so that admin did not have to keep track of the information's reachability.[4].

E. Society Management System: This application was developed by Hitesh Solanki , Deshna Yadav , Aarti Yadav , Prof. Chintan Shah. This application had features like Auditing, Parking, Alert button, Notice board. The User module & Admin module maintained a maintenance list of all the flats in a society. - Admin maintained a maintenance list of all the flats in a society. - The user will get a prompt on UI about their pending maintenance payment & user has to pay predefined maintenance amounts - Admin manually clicks on respective name flats. The parking UI displayed a detailed chart of the parking slot status to the user. So, accordingly, they can book parking slots[5].

Summary of Related Work

Literature	Advantages	Disadvantages
Study of Implementation of Society Management System - Published in December 2015[1].	Notifications feature is available. Requires minimal effort to deliver the messages. High reliability and transparency.	Frequent remainders can interrupt the users although important. To understand the working of the society, it is needed to visit different societies and understand their daily activities and requirements.
Housing Society Management Web Application with recommendation system - Published in 2017[2].	Residents can interact with each other and also build a social network by becoming part of a cultural or sports group.	It is a web portal, android application would be better. A group is recommended only if that particular group is present.
Society Management Application on Android - Published in May 2018[3].	Residents can get the services of doctor, plumbers, carpenter, electrician, etc by just making a request to the admin.	Application UI could have been better.
Housing Society Management - Published in May 2018[4].	Security for data theft.	The user must first get connected to the same network as the database, although to ensure security.
Society Management System -Published in April 2019[5].	Maintain transparency between society members and management. In case of any crisis or danger, send an auto sms.	Online maintenance bills cannot be paid via online payment applications

3. Existing System

In the current system of housing society management all the work is done manually like setting up notice boards which need to be operated by a responsible resident. All the data is stored in the file or registers so the data extraction process is quite slow. A person has to take responsibility for operating and maintaining the notice board, which gives rise to relying on that particular person. He has to take some time off his duties to maintain it. It is noted that usually the complaints are not taken care of because one needs to continue follow up until the issue is resolved. In the current system, every work is done manually. The notice board is traditional. Hence there is the problem of unreachable information & more time consuming.

4. Proposed Work

To subjugate the shortcomings of the current system, we provide a efficient and simple way to address the critical issues by easing the efforts and focusing on reliable communication. Different functions in the society like Complaints, Notices, Meetings, Rules, Suggestions, Miscellaneous Contacts will be available within a glance so that residents can use the features whenever obligatory. We propose an application which will be very helpful for all the residents of society to keep up-to-date information related to society. Also in any of the existing apps, there is no feature for social interaction. So we came up with a chatbox, friend recommendations and pandemic tracker. In this way, no member can feel lonely, he/she can chat with any of the society members, also with friend recommendation module, they can find new friends and can interact with them via social grouping module.

FUTURE SCOPE

The android application can also contain features like managing audits, bills. Implementation of online payment methods like Phonepe and Gpay to pay maintenance bills. Concept of data mining and advanced artificial intelligence can also be included for future scope.Information regarding parkings lots can also be made available to the user so that they can allocate their parking areas.

CONCLUSION

Today, in this world, Android is everywhere and used almost by everybody. This app has provided best alternatives for daily notices, event management, miscellaneous contacts and many more. It will provide transparency between residents of society and the management by reducing their efforts. There are also many exclusive features like a health tracker to track the health of a resident and notify other residents regarding their recovery status, social grouping which helps them interact with other residents and also has a friend recommendation system to it, so that no resident can ever be lonely and can chat with other residents. Through this app, the election process for chairman and other higher positions becomes easy as they can be done via application.

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