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E-Housing Society

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Abstract - *"Simplicity is the ultimate sophistication". E-Housing Society exactly follows this phrase and aims at making the current situation in the society simple and efficient. Society Management System reduces the conflicts that arise within the society by providing facilities such as maintenance management, displaying notices and events, managing parking issues and also the complaints raised by society members, it also deals with the lift issues and sends a direct message to the service person. It automates certain attributes that occur within the society and makes it easy for the members of the society an easy access to the society happenings and on goings. Daily notices, monthly meetings, cultural events, miscellaneous contacts for daily needs, 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. This system created will notify people for events and activities in the society personally so that people can actively participate in those activities and thus increases interaction with neighbors. Even though people can make complaints which will receive by admin. After that members can see the progress of their complaints on the web application itself.*

Key Words: **Society Management, Daily notices, Maintenance Receipt, Robotic Process Automation, Minutes of meeting.**

1. INTRODUCTION

Now a days everything is going digital, but generally in societies all the work is decided in meetings and maintenance bills, contact number of members are noted on the papers. Most of the work in societies is handled manually. At times society members are unaware of what all things are going on in society. This system of E-Housing Society makes the manual work digital. This system of maintaining a society is made in such a way, so that the most common problem faced in residential societies are solved. The system is designed in user-friendly manner, it is easy to use and solves most of the issues related to society. The system has automated functionality for bill generation and complaint management. The system provides a unique interface to every user to interact with the system.

Thus this system can provide a smarter and efficient way of communication between society residents and higher authorities. And hence reliable as well being the independent of time and location of the resident.

2. EXISTING SYSTEM

In the existing systems, most of which are manual, the data is stored in the files and the processing of the data is done manually and the report generation is slow. Data which is required cannot be accessed quickly. The data is stored in various registers so the linking between it becomes difficult. The other online systems only try to cover some parts of the society management, either it is voting or maintenance. The existing systems:

- Are less user friendly
- Less secure
- Accuracy not guaranteed
- Deals with only one issue
- Complaints of residents are not tracked
- Manual method to calculate maintenance
- Manual receipt generation

Sometimes, admin has to post notice on board but even if he plays his role efficiently, information becomes unreachable if lost and ignored by society members or in case if admin fails to update in case of any changes and even admin remains clueless about whether notice is reached to everyone as acknowledgement of residents is missing in this case.

3. PROPOSED SYSTEM

The proposed system overcomes most of the drawbacks of the existing systems. This system is proposed to keep residents of society in touch with the current happenings of the society. The system has two different modules that is one for admin and other for the residents. The accounts are well secured and provides respective functionalities depending on whether it is a resident or the admin. Admin can perform following tasks:

- Receipt generation
- Resolving complaints
- Complaint updating facility which will keep residents updated about the progress of their complaint
- Uploading of notices
- Updating about upcoming events
- Updating Minutes of meeting

The society residents have following facilities:

- They get updated about the notices and the upcoming events
- They also can view what all points were discussed in the meeting through minutes of meeting section
- Can register their complaints which will be immediately visible to admin
- They will be notified about their progress of the complaint

The additional functionalities include, whenever resident makes the payment of the maintenance and then admin generates receipt that would be mailed to the resident, if in case resident is unable to pay the maintenance then admin will send an alert message. The mailing system is done using the latest technology Robotic Process Automation (RPA). This technology is used to create bots which are made to automate some parts of the process. These are very useful when one task is to be performed multiple times.

E-Housing Society system is purely based on client usage. To debug the existing system, remove procedures those cause data redundancy, make navigational sequence proper. The system provides with user friendly environment, which makes it easier for users to navigate and operate various functions provided to them. The system makes the overall project management much easier and flexible. This system is accessible from every device and supports all views that is desktop, mobile etc.

Since all the notices and events gets posted online or digitally here lot of paper work is eliminated, also the Robotic Process Automation which provides with the mailing facility of receipts generated it also serves the same purpose. Therefore, besides being a paperless activity, this will be a small helping hand for Go Green activity which will avoid use of eco destructive products.

Thus this is a well-structured and implemented system which helps in easy usage of all the functionalities provided to the user.

4. RESULTS

Admin page includes:

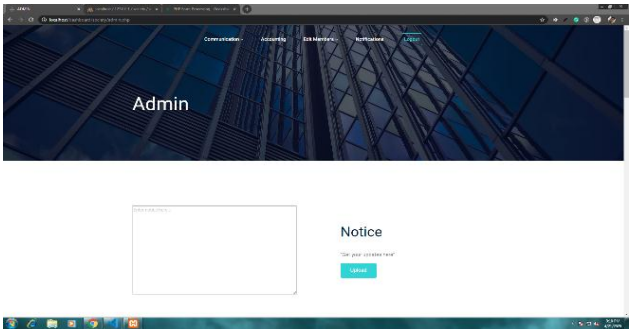


Fig 1: Admin Page

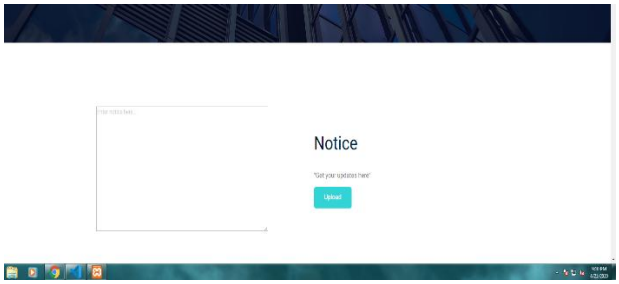


Fig 2: Notice and Events Uploading Section

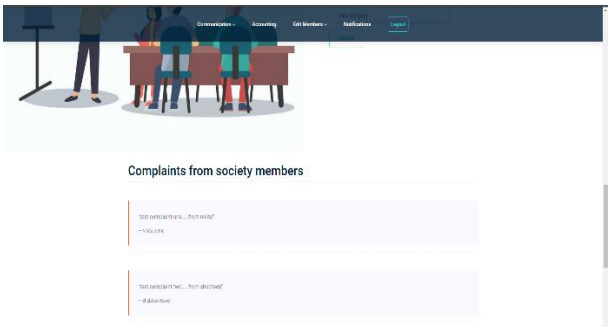


Fig 3: Complaint Section

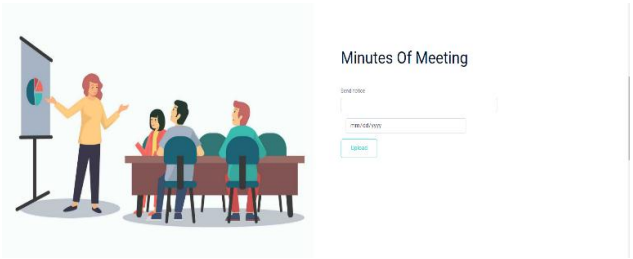


Fig 4: Minutes of Meeting Section

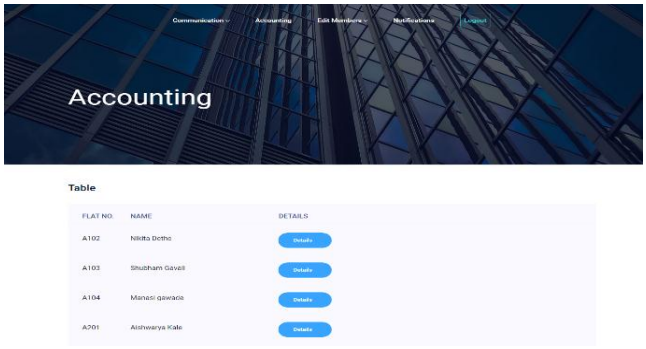


Fig 5: Accounting page

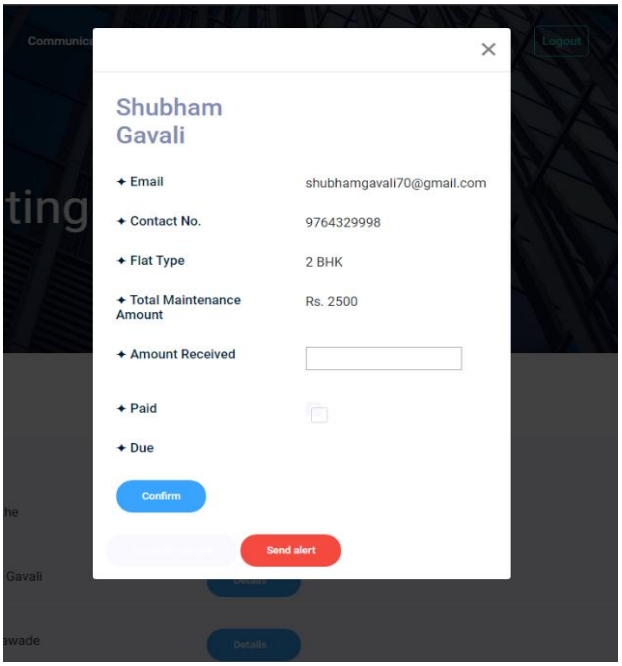


Fig 6: Receipt Generation

Resident page includes:

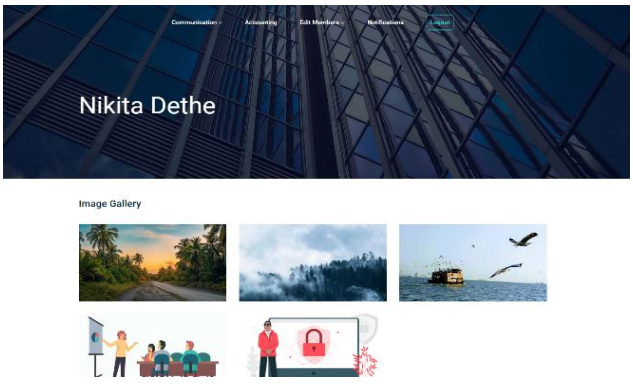


Fig 7: Resident Page

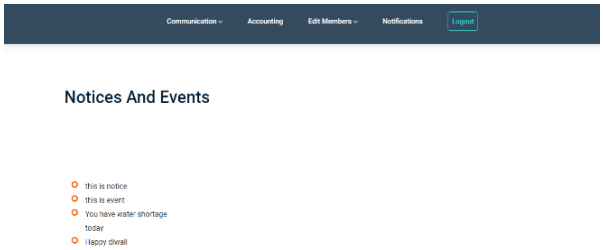


Fig 8: Notice and Events Display

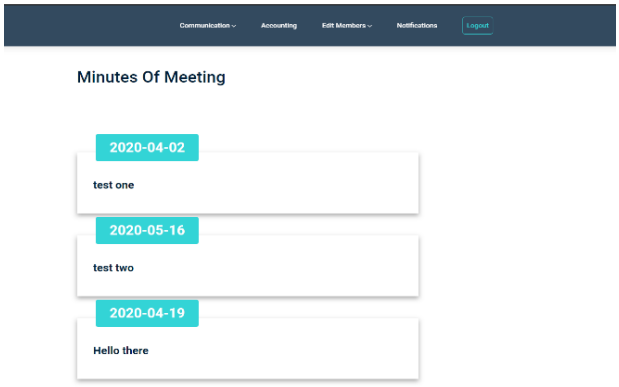
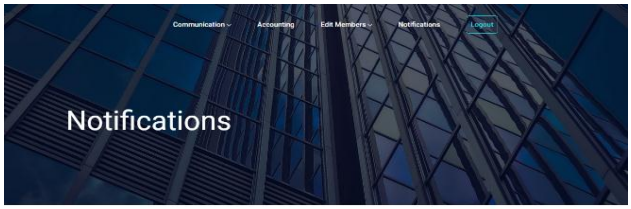


Fig 9: Minutes of Meeting



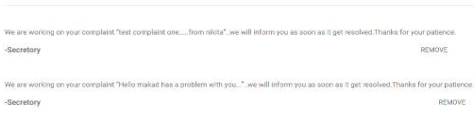


Fig 10: Notification Page

Fig 11: Complaint Column

5. CONCLUSIONS

The entire solution will provide a hassle free, user friendly affordable communication platform to develop healthy relations between housing society members and a smarter way of interconnectivity. Application manages housing society by sending emails using Robotic Process Automation (RPA) that will assist the society members to play their roles effectively. Chairman or secretary will play the role of administrator allowing registration of residents so that they can use these registration details to login and to access the services. The system may use concepts of economical management for future work.

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