

EasySociety –
A Society Management
System Website

1. Abstract

Commonly, in a society, most of the formalities and operations like maintenance bill generation, records of members and visitors are done manually. The records are usually all on paper when they are entered. The display of notices is done through a Notice Board which could become crowded. There is no automated system for doing all the things that generally happens in society, so that members can come to know what is happening in society. As all work is done on paper so it is very difficult to manage and keep track of all the work expenses in the society. This society management system will computerize all day to day operation in the society. The users can easily access their account and see all the notices in a neat format. There will also be automated generation maintenance bill and a log of visitors. On the admin side, the admin can view the list of all users, register a new home-buyer in the building and keep track of bill payment.

This will make the entire system of managing a society a much easier task because it will transition from a manual to a computerised system. It helps in keeping track of the notices, bills, payments and visitors in a very efficient manner. Access to all this information is securely done as login and logout feature is given to both, the user and the admin. Hence the purpose of this project is to make a system which automates the internal working a society.

2. Introduction

This system is developed to manage day-to-day activities of any co-operative housing society. Generally, in society all the work is manually. As all work is done on paper so it is very difficult to manage and keep track of all the work expenses in the society. This society management system will computerize all day to day operation in the society. 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 is also raise invoices against all flats or select flats based on area or based on a fixed amount. Members can view their maintenance bill whenever an invoice is raised against their flat. This system of maintaining a society is made in such a way, so that the most common problem faced in residential societies are solved. Admin can also keep track of expenses using this system and reports which include provider bill.

Existing system:

Generally, in society all the work is manually. Contact no of members are noted on the papers. As all work is done on paper so it is very difficult to manage and keep track of all the bills in the society. Payment collection is also big task in society. Watchman may have to go each flat to collect the payments. In current system all work is done manually so each work takes more time. Sending notice or other message to society members is also a big task. so an system is needed that can solved all above problems. The notice board is also usually a mess with all the notices printed on paper and pinned to board is a haphazard manner without any organisation. It is no surprise that most owners forget to look at the board.

Proposed system:

Society Management System is the website portal designed to reduce the manual work required to maintain the society records. The system has automated functionality for calculating monthly

maintenance and member can view their bill status on their account. The bill can also be downloaded by the user in the form of a PDF. Different functions in the society like Meetings, Notices, Suggestions, Rules, Maintenance bill generation, Miscellaneous, Contacts will available within a single sight so that user can observe it and make use of it whenever is necessary. 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.

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.

3. Background/Literature Survey

<i>Sr. No</i>	<i>Paper Title, Year, Publication</i>	<i>Author</i>	<i>Findings</i>	<i>Gap Identified</i>
1.	Study of Implementation of Society Management System. International Journal of Computer Applications (0975 – 8887) Volume 132 – No.1, December2015	<ol style="list-style-type: none"> 1. Shivganga Gavhane Asst. Prof Computer Engineering,DYPIEM R. 2. Rutuja Vatharkar Computer Engineering, SPPU 3. Swati Sonar Computer Engineering, SPPU 4. Pratiksha Patil Computer Engineering,SPPU 	This paper is proposing a smarter way of communication where an automated notification system can be developed using a very popular Android platform which will provide a user friendly mobile based application which can be beneficial on following fronts: 1)Multiple Reminders to provide gentle reminders through automated system till the	The paper basically focuses on the services which can be provided to the society members as an app user. However such as app is managed in a two-way manner by user as well as admin. However admin features and modules hasn't been a point of focus here.

			<p>actual event execution.</p> <p>2) Authentic and uninterrupted communication with management to follow up every complaint made by society member. Basically user can raise a complaint from any location irrespective of personal availability of concern person.</p> <p>3) Society Relevant User Experience.</p>	
2.	<p>Housing Society Management.</p> <p>INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME 7, ISSUE 5, MAY 2018</p>	<p>1) Shantanu Kudale.</p> <p>2) Chandan Amarnani.</p> <p>3) Harshal Sawakare.</p> <p>4) Shubhankar Kokate.</p> <p>5) Sujata Kadu.</p>	<p>This system is developed to manage day-to-day activities of any co-operative housing society. This system can raise invoices against all flats or select flats based on area or based on a fixed amount. Members can view their maintenance bill whenever an invoice is raised against</p>	<p>The system is nicely focused on creating a digitalised environment in terms of invoice generation, grievance handling however the additional features which has been discussed in above mentioned research paper like noticeboard system and focus on better user</p>

			their flat. This system of maintaining a society is made in such a way, so that the most common problem faced in residential societies are solved. Admin can also keep track of expenses using this system and reports which include provider bill.	experience is missing.
3.	<p>Housing Society Management Web Application with recommendation system.</p> <p>Imperial Journal of Interdisciplinary Research (IJIR) Vol-3, Issue-4, 2017 ISSN: 2454-1362, http://www.onlinejournal.in</p>	<p>1) Saurabhi Raut . 2) Priyanka Pawar. 3) Masira Shaikh. 4) Neha Bhat. 5) Prof. P.N. Kalavadekar. (Department of Computer Engineering, SRES COE, Kopergaon(MS))</p>	<p>The web application has three panels namely the super-admin panel, the secretary panel, and the resident panel. The super-admin has privilege to add the housing societies and its respective residents through back end. The government provided emergency contacts as that of the police control room, the fire brigade, ambulance etc are given by the super-admin and</p>	<p>This paper just gives a detail related to idea generation however it does not discuss about the implementation aspects like methodologies and technology stack to be used apart from the idea being discussed.</p>

			<p>can simply be viewed by all the society members.</p> <p>The secretary panel has more facilities than other panels. The secretary too can add the resident from front-end through the resident info update tab, this is how the resident can be enrolled in the system.</p> <p>The residents panel comes both with grievances & query feature to have an interaction between secretary and society members. Also it is like an view only feature where he can just access the details and information provided by the super-admin and secretary panel.</p>	
4.	Online Housing Society Management System.	1) Prachi Pakhale 2) Shweta Shirke 3) Swsati Dhake	The proposed system is cloud based and has	The system proposed is highly useful as it describes

	<p>International Journal for Research in Applied Science & Engineering Technology (IJRASET) www.ijraset.com Volume 4 Issue III, March 2016 IC Value: 13.98 ISSN: 2321-9653</p>	<p>Computer Engineering Department, Shivajirao S. Jondhale College of Engineering, Dombivli, Mumbai University</p>	<p>automated functionality for generating monthly maintenance and member can view their bill status on their account. The main functionality of our project is that, there is a online bill payment system, online voting system for different society positions like Secretary, Chairman, Treasurer Etc. Members can vote the candidates that are standing for different roles in society. This System allows members to login with their own account and get updated with society happenings.</p>	<p>most of the features. However it has been mentioned to deploy society management system on cloud but it does not explain anything about how to get the access of the system along with ensuring user experience. Also the paper does not discuss about the implementation of the features.</p>
5.	<p>Society Management Application on Android.</p> <p>International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 05 Issue: 05 May-2018 www.irjet.net p-ISSN: 2395-0072</p>	<p>1) Rahul Bhagwat. 2) Aashay Bharadwaj. 3) Vivek Harsode. 4) Anurag Chawake. 5) Mrs. Deepali Bhanage.(Prof.)</p> <p>Information Technology, Modern College of Engineering, Pune, Maharashtra</p>	<p>Different functions in the society like Complaints, Meetings, Notices, Suggestions, Rules, Miscellaneous Contacts will available within a single</p>	<p>This research paper authors have a presumed notion about the vendors service to be provided by the society which in some manner limits the scope of usage of the</p>

			sight so that user can observe it and make use of it whenever is necessary. It proposes 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.	application since it is not possible for normal and small societies to provide such service. Also it says to provide digital identification to the vendors which increases the incorporating cost. Few features like managing CCTV footage through the app itself is a tedious task however there has been nothing specified with respect to its design and implementation.
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4. Methodology

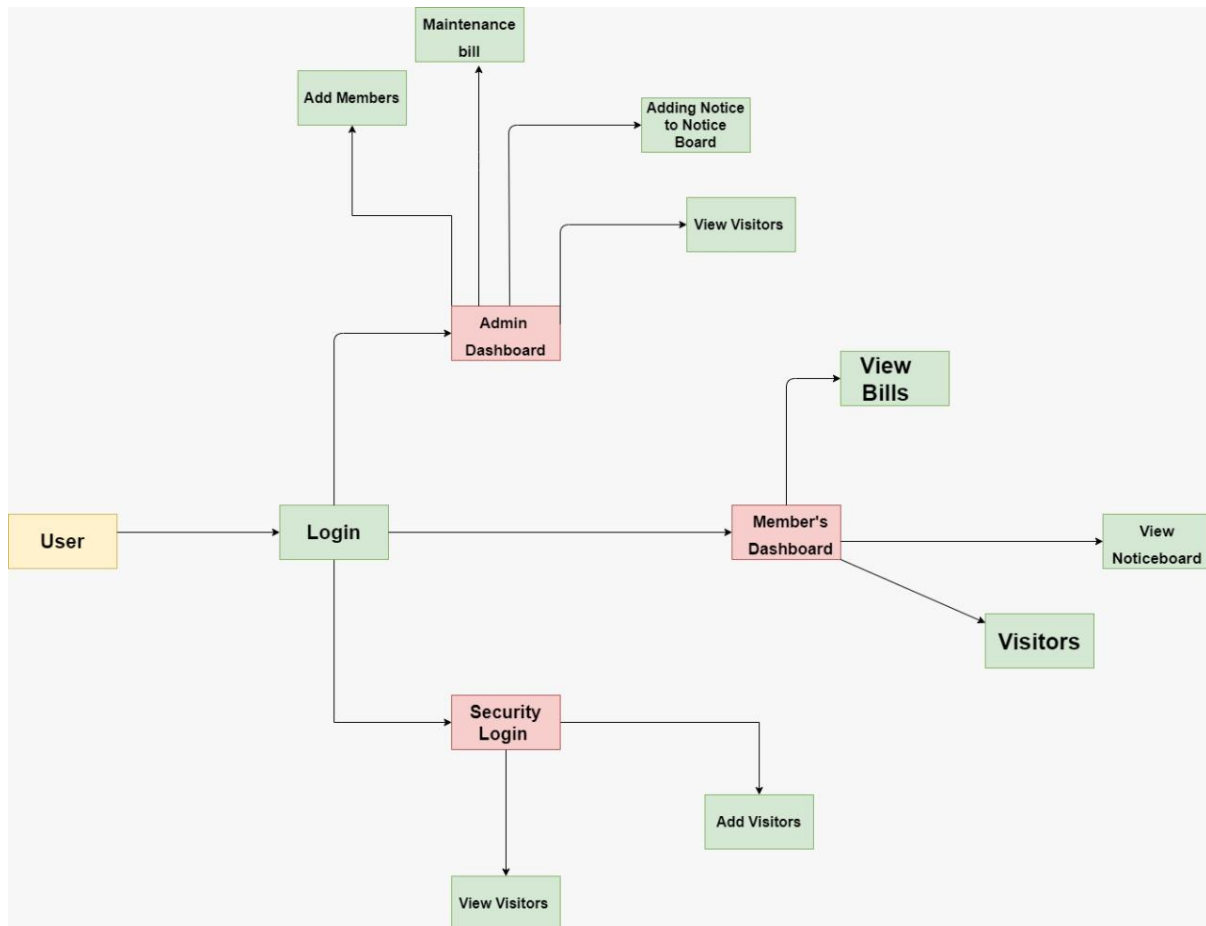
For Catering the need of The Society Management Portal we decided to implement A Bootstrap based Web-App was certainly the best answer that can fit to the requirements of people, irrespective of which device you are using, they can simply access the site and after verification they can use multiple features available on the platform

We are trying to ensure that the application has got all possible features.apart from just looking at the grievances it provides a lot of features with respect to security as well we have a separately designed login for the security using this we can access the information that which people have visited the society any visitor who is about to visit the society he will have to put his entire data into the database by which would be put up by the admin who is responsible for the security of the society and then only he would be and allowed to enter so by putting such constraints and restrictions we can ensure the security as well using this platform,apart from this it is also it is also important with respect to maintenance of data the data that is collected during the entire tenure of this application for example with respect to the grievances and that builds can be stored in the database and it can remain there forever it will be always available

on the servers and whenever the user wanted they can access it so it will be easily and readily available to them. The software basically has been developed in PHP and the Front end of the software is majorly having Bootstrap to ensure availability on multiple platforms. In any such platform what is the most crucial part is the Security of the user and the Admin.

When you are registering on the portal then the information that is taken from each and every user is not highly confidential while taking the credentials we make sure that the person who is entering the data is a valid member of the society and then only gets the access into the portal. The basic idea of doing so was to ensure that any Valid User gets assistance in Registration and the Users who are trying to breach the Software won't get an access. The Form designed for all the data entry for registration is highly secure and also the Page to enter the Data of the bill of an individual is limited with Values so that there isn't any improper Bills being generated.

After the security what was more important was to maintain a proper database for the other transactions that are happening to the society to maintain the transparency we have used this Xampp database server for that and we are using the MySQL database to store the entire data since this is the relation format of database and since we know that the data is not very much non-relational in nature we can easily use MySQL database which is a relational database. Our priority was to make the back end as a decent and as well as possible to ensure that it could work properly on to all the environment it we have designed in such a manner that the back end would be same and only the the front end will have to be designed in such a manner that is accessible to all the platforms whether you use a smartphone or tablet or computer. in the building section we have also included the parking charges bill of keeping particular vehicles in to the society extra bills that are included for certain activities that are going on in the society and many more things we have planned a lot of things for the future as the future aspects as well but as of now the basic implementation has been completed with most effective features we can say that this is just the first version of a fully-fledged working Society management app which is named as Easy society, later on will try to integrate the features which are pretty much relevant and which ensure that the security and the credibility of the software increases. We are also working towards integrating the Payment Services and Platform for Online Payment which makes the Web-App complete and ready to be brought into the market.



5. System Description

In this proposed system, we build a website with a secure login and logout. We are dividing the system into 3 parts: the user module, the admin module and the security module. The user module will cater to the members and home owners of the society. They will be able to do the following:

- Secure Login and logout
- View the Notice board
- Maintenance payment
- Receipt generation and download
- View visitors in their flat

The system needs an administrator to input various flat owner data and billing amounts into it. The rest of the work is done by the system on its own. The admin is required to register new home owners in the building and provide them with an account. They are required to look after the maintenance of the site, update notice board etc. The admin module will have the following requirements:

- Secure login and logout
- Maintenance bill generation
- Update bill format
- View visitors
- Adding to notice board

- Record of the home owners

The security module is for the security personnel to enter the logs of the visitors. It has 2 parts:

- Add visitors
- View all visitors

The advantages of this proposed system are:

- It helps the society secretary to handle and manage flat owners data.
- It helps automate the generation of maintenance bill.
- It brings transparency and efficiency in the working of housing societies.
- It helps in keeping clean record.

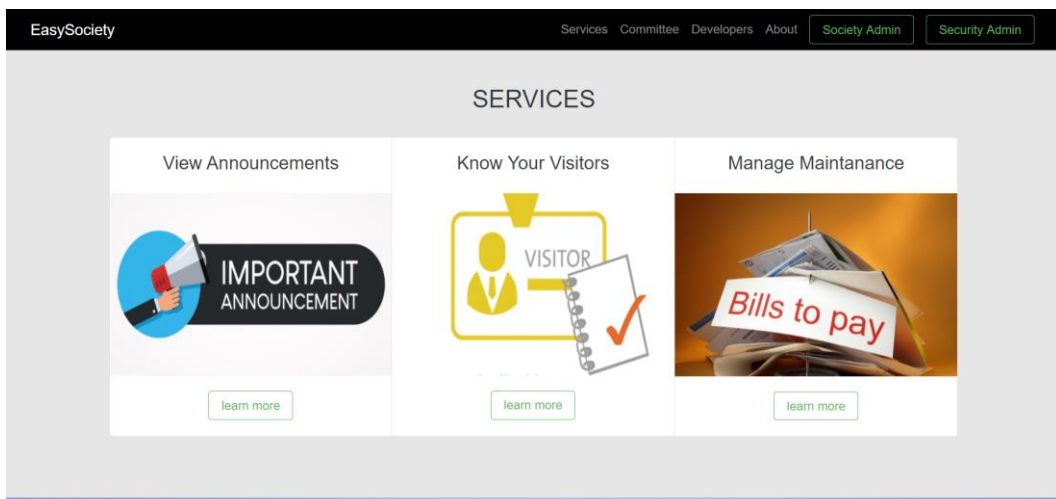
A. Landing Page

This is the page which opens up whenever a consumer opens up the site. The landing page provides access to all 3 logins, member, admin and security.

- **Home**



- **Services**



- **About**

EasySociety

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[Committee](#)
[Developers](#)
[About](#)
[Society Admin](#)
[Security Admin](#)

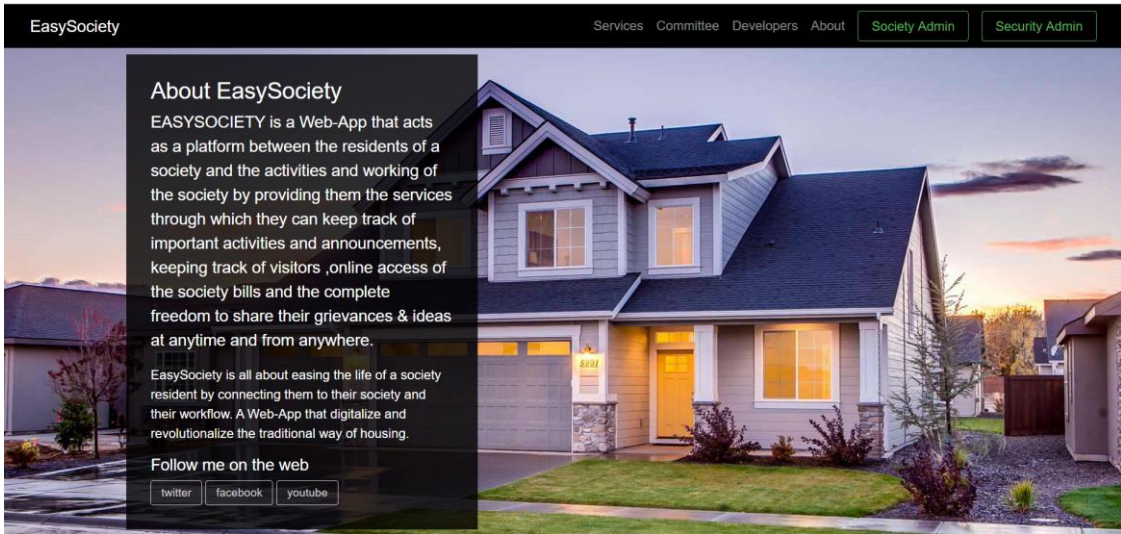
About EasySociety

EASYSOCIETY is a Web-App that acts as a platform between the residents of a society and the activities and working of the society by providing them the services through which they can keep track of important activities and announcements, keeping track of visitors ,online access of the society bills and the complete freedom to share their grievances & ideas at anytime and from anywhere.

EasySociety is all about easing the life of a society resident by connecting them to their society and their workflow. A Web-App that digitalize and revolutionize the traditional way of housing.

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- **Developers**

EasySociety

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[Security Admin](#)

Meet Our Developers Team


We as a dedicated team working hard to provide you the help in your crucial moments.



Harsh Singh

Member Of Developer Team


The Think Tank, He Takes Care About The IDEA And Front End Of EasySociety. A



Akash Singh

Member Of Developer Team

The Wise Technical Guy To Rely On, He Has Contributed On Front-End As Well As



Anuja Somthankar

Member Of Developer Team

A Tech-Freak And A Developer ,He Takes Care About The Login Validation And

EasySociety






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The Think tank, He takes Care About The IDEA And Front End Of EasySociety. A Person Who Is Always Present With Innovative Ideas Ensuring Productivity Of The Platform.

The wise technical guy To Rely On, He Has Contributed On Front-End As Well As Backend Logic Building And The Connectivity Establishment In The Development Of EasySociety.

A Tech-Freak And A Developer ,He takes Care About The Login Validation And Authentication Oriented Part Of EasySociety And Also Generated The Important Test-Cases.

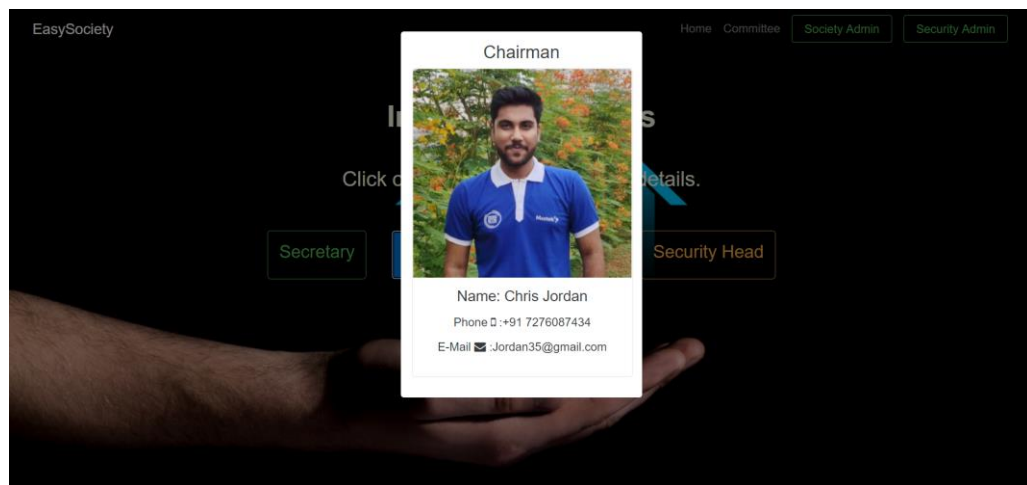
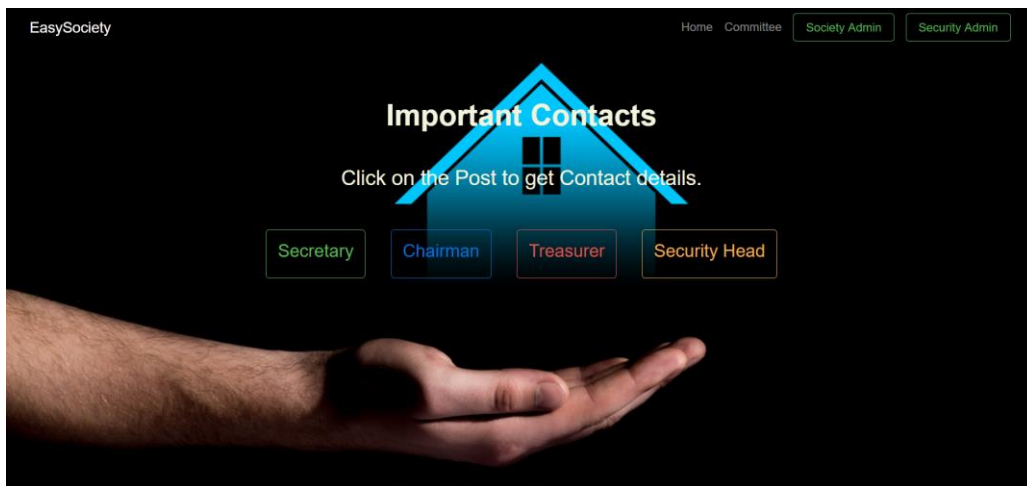
Connect us!

Developer Contact Details

<p>Akash Singh</p> <p>Phone: +91 7276087434 M@il ID: akashsingh13201@gmail.com</p>	<p>Harsh Singh</p> <p>Phone: +91 8390313364 M@il ID: harshsatishsingh1174@gmail.com</p>	<p>Anuja Somthankar</p> <p>Phone: +91 8976233112 M@il ID: anujasom@gmail.com</p>
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- **Committee**

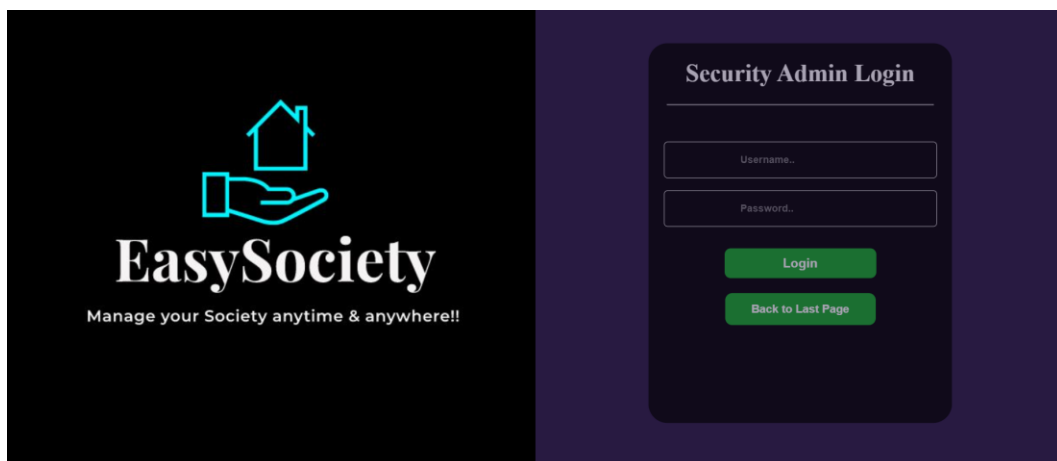


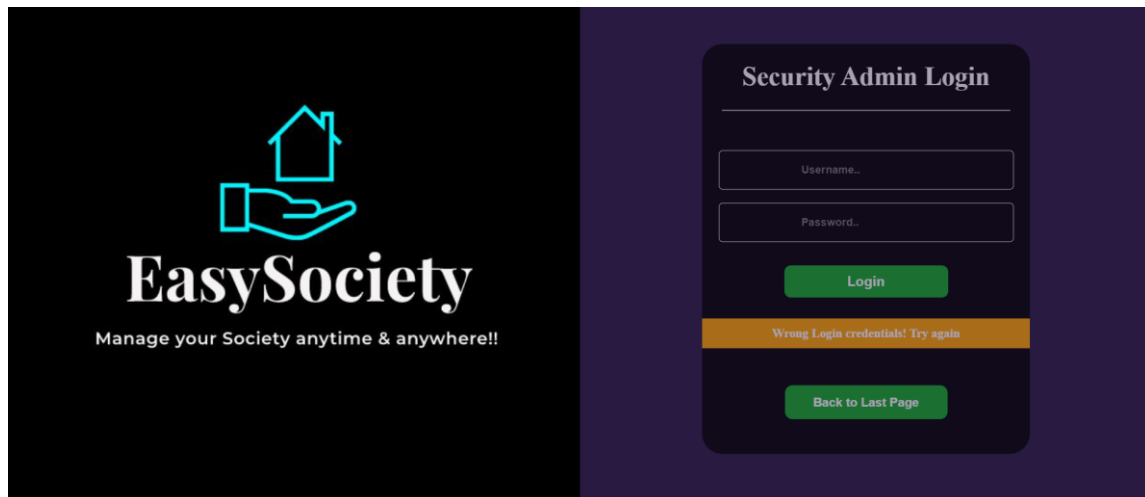
B. Security Module

This module allows the security personnel to login and add and view visitors details. This will computerise the visitors log and make it easier to track anyone if required.

- **Security Login**

This allows only the security personnel to login. No other type of admin is allowed.





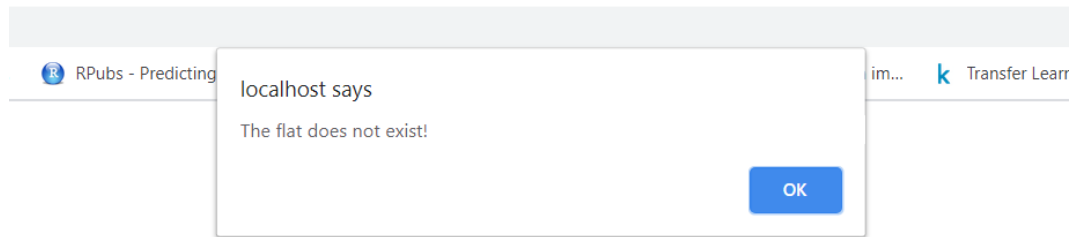
- **Add Visitors**

This screenshot shows the 'Add Visitors' form in the EasySociety admin interface. The form is located on the right side of the page, with a dark sidebar on the left containing a menu with 'Add Visitors' and 'View Visitors' options. The form fields include 'Date' (with a calendar icon), 'Visitor Name', 'Visitor Contact', and 'Flat Address'. A green 'Submit' button is at the bottom of the form. A 'Logout' button is visible in the top right corner of the admin area.

If the entry is successful, this message is displayed:

This screenshot shows the 'Add Visitors' form after a successful entry. A grey modal box with the text 'Visitor Record Entered Successfully.' and a green 'BACK' button is centered over the form fields. The form fields and the 'Submit' button are still visible in the background.

If the flat doesn't exist, or if there is no member living in the flat, then an error will be shown. This is added to avoid any confusion in the logs and minimize errors.



• View Visitors

Here, the security can view all the visitors in the lifetime of the society. Each column of the table has a sort function which will sort it either in ascending or descending order. The search option allows the user to look for any particular entry.

EasySociety

Logout

Add Visitors
View Visitors

Visitors

Show 10 entries
Search:

Date	Visitor Name	Visitor Contact	Flat Address
2020-10-08	Alok Singh	9878672314	D-214
2020-10-08	Aryan Mishra	9089786790	A-1
2020-10-09	Harsh Singh	9878985623	D-20
2020-10-09		0	123
2020-10-10	Dinesh	9802929284	A-30
2020-10-30	Suresh Ambar	9898435544	C-32

Showing 1 to 6 of 6 entries

Previous 1 Next

• Security Logout

EasySociety

Logout

Add Visitors
View Visitors

Visitors

Show 10 entries
Search:

Date	Visitor Name	Visitor Contact	Flat Address
2020-10-08	Alok Singh	9878672314	D-214
2020-10-08	Aryan Mishra	9089786790	A-1
2020-10-09	Harsh Singh	9878985623	D-20
2020-10-09		0	123
2020-10-10	Dinesh	9802929284	A-30
2020-10-30	Suresh Ambar	9898435544	C-32

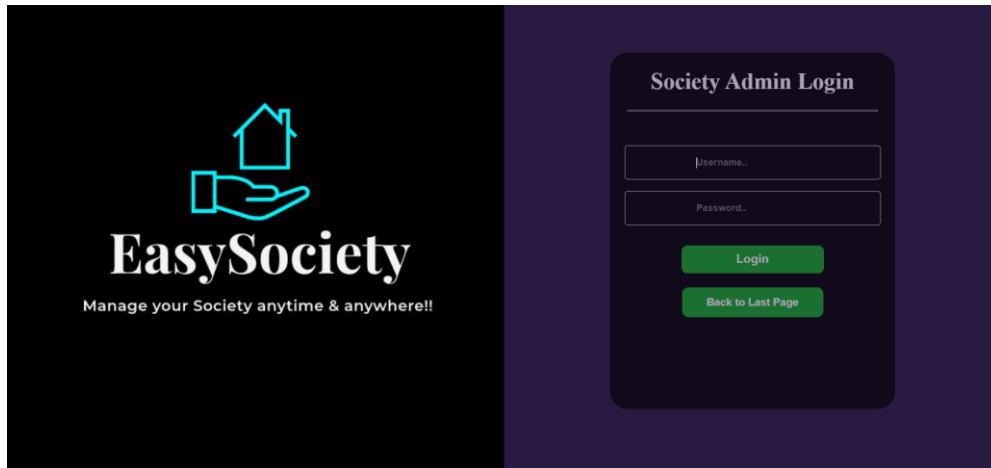
Showing 1 to 6 of 6 entries

Previous 1 Next

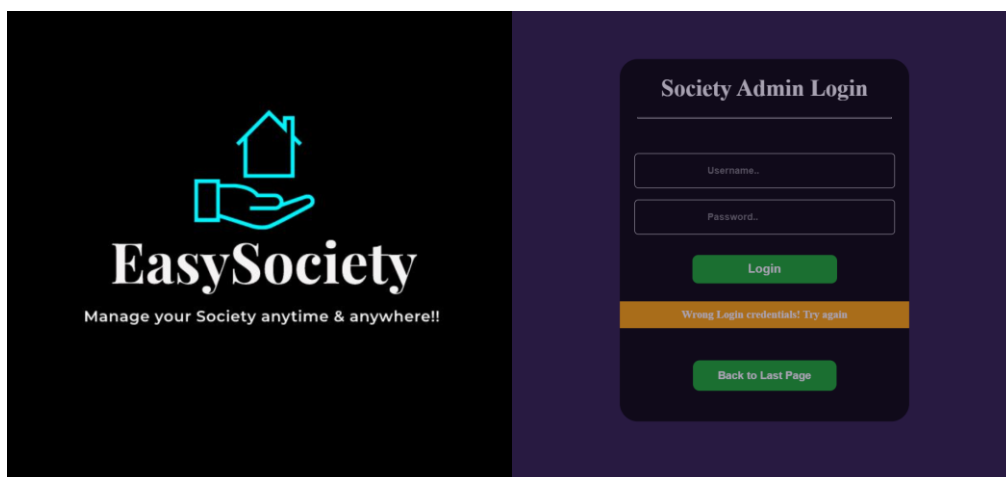
C. Admin Module

- **Admin Login**

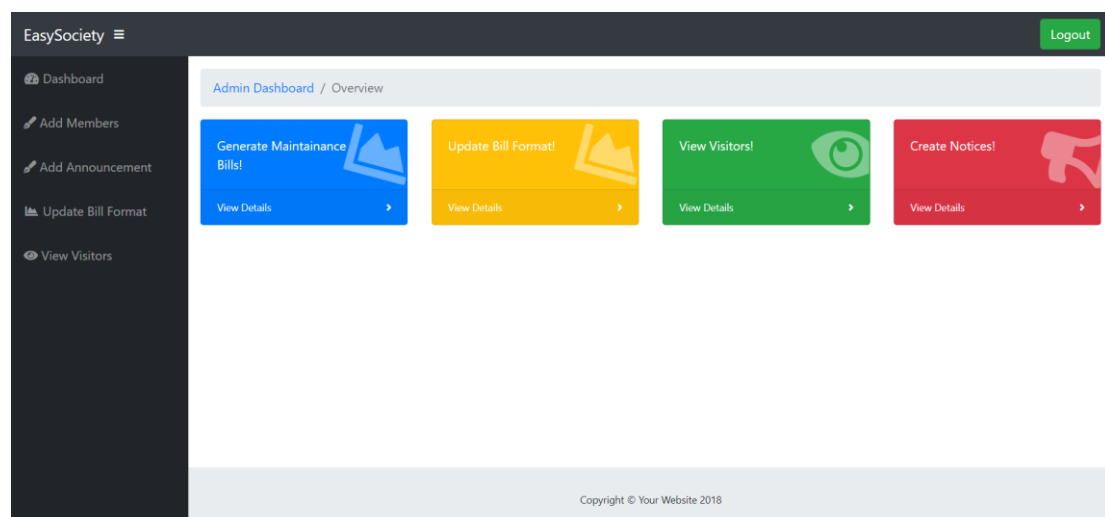
This allows any admin type to login. Form validation is used to check if correct password is typed in.



If incorrect password is entered, a notification is sent.



If correct password is entered, the admin is directed to the admin dashboard.



- **Add Members**

This part of the module allows the admin to add the records of new members.

The screenshot shows the 'Add Members' form in the EasySociety dashboard. The form is located on the right side of the page, with a dark sidebar on the left containing navigation links: Dashboard, Add Members, Add Announcement, Update Bill Format, and View Visitors. The form itself has a light gray background and contains several input fields: 'Select the Wing..' (a dropdown menu), 'Select Floor Number' (a dropdown menu), 'Select a Flat Number' (a dropdown menu), 'Owner' (a text input field), 'Number of members' (a text input field), 'Username' (a text input field), 'Password' (a text input field), 'Flatarea(sqft)' (a text input field), '2 wheelers' (a text input field), '4 wheelers' (a text input field), and 'Remaining Dues' (a text input field). A green 'Submit' button is located at the bottom of the form. The footer of the page shows 'Copyright © Your Website 2018' and a 'Logout' button in the top right corner.

If the entry is correct, then the entry is saved in the database and the notification pops up.

This screenshot shows the same 'Add Members' form as the previous one, but with a success notification overlay. The notification is a gray box with the text 'A new Member Entry Generated Successfully.' and a green 'BACK TO DASHBOARD' button. The form fields are still visible in the background, including 'Flat Address', 'Owner', 'Number of members', 'Number of housing members', 'Username', 'Password', and 'Flatarea(sqft)'. The sidebar and footer are also visible.

Many constraints are placed on the type of entries that can be done. Here are the notifications that will pop when such constraints are violated.

localhost says

Length too short for a username

OK

localhost says

The Maximum Person per flat limit is 10, You have Exceeded that.

OK

localhost says

Too many words/whitespaces in owner's name

OK

localhost says

Too many words/whitespaces in owner's name

OK

localhost says

You crossed the Square feet Limit

OK

localhost says

You crossed the Maximum 2 Wheelers Limit.

OK

localhost says

You crossed the Maximum Four Wheeler Limit

OK

5

Password

Password

Password must contain the following:

- ✗ A lowercase letter
- ✗ A capital (uppercase) letter
- ✗ A number
- ✗ Minimum 8 characters

Flatarea(sqft)

Flat area(sqft)

2 wheelers

2 wheelers

- **Add Notice**

EasySociety Logout

Dashboard

Add Members

Add Announcement

Update Bill Format

View Visitors

Date

dd-mm-yyyy

Subject

Subject

Message

Message

Submit

Copyright © Your Website 2018

A notification pops saying that the entry is saved once the submit button is clicked.

EasySociety Logout

Dashboard

Add Members

Add Announcement

Update Bill Format

View Visitors

Date

dd-mm-yyyy

Subject

Subject

Message

Subject

Submit

New Announcement Generated Successfully.

BACK

Copyright © Your Website 2018

- **Update Bill Format**

This module is needed if the maintenance bill prices need to be changed over time.

EasySociety Logout

Dashboard

Add Members

Add Announcement

Update Bill Format

Manage Grievances

View Visitors

Common Charges (per sqft)

Common Charges (per sqft)

Water Charges

Water Charges

Sinking Fund

Sinking Fund

Building Repair Fund

Building Repair Fund

2 wheeler Parking Charges

2 wheeler Parking Charges

4 wheeler Parking Charges

4 wheeler Parking Charges

Building Repair Fund

Building Repair Fund

2 wheeler Parking Charges

2 wheeler Parking Charges

4 wheeler Parking Charges

4 wheeler Parking Charges

Insurance Premium

Insurance Premium

Others

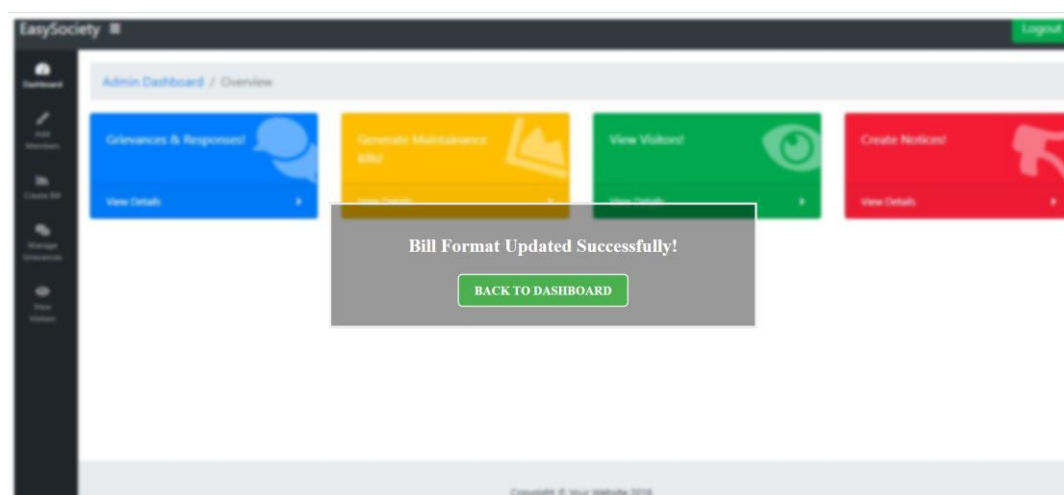
Others

Submit

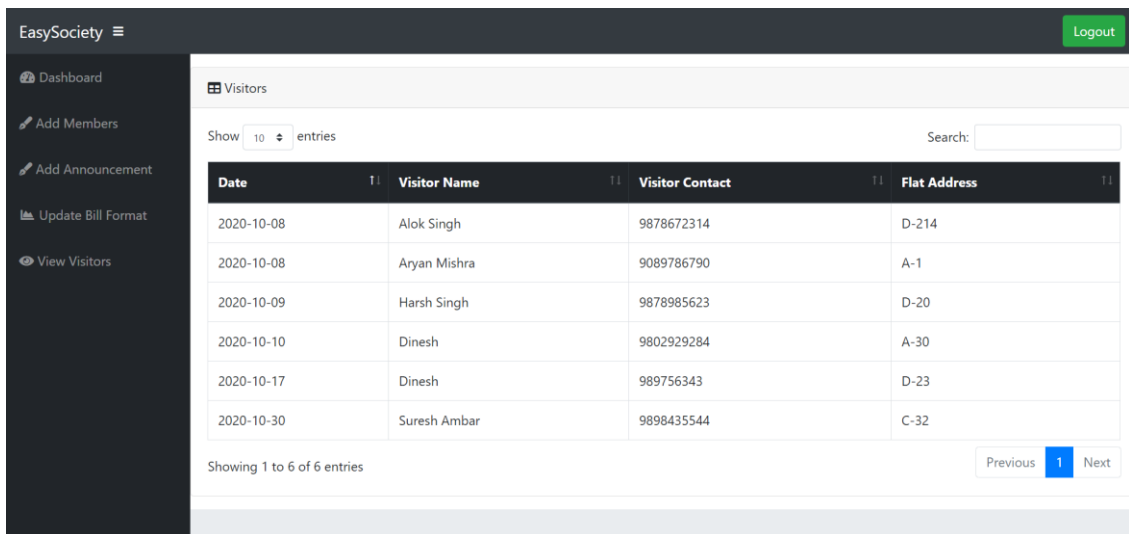
Copyright © Your Website 2018

localhost/SMP/layout/backup/visitors-admin.php

On updating, a notification is sent.



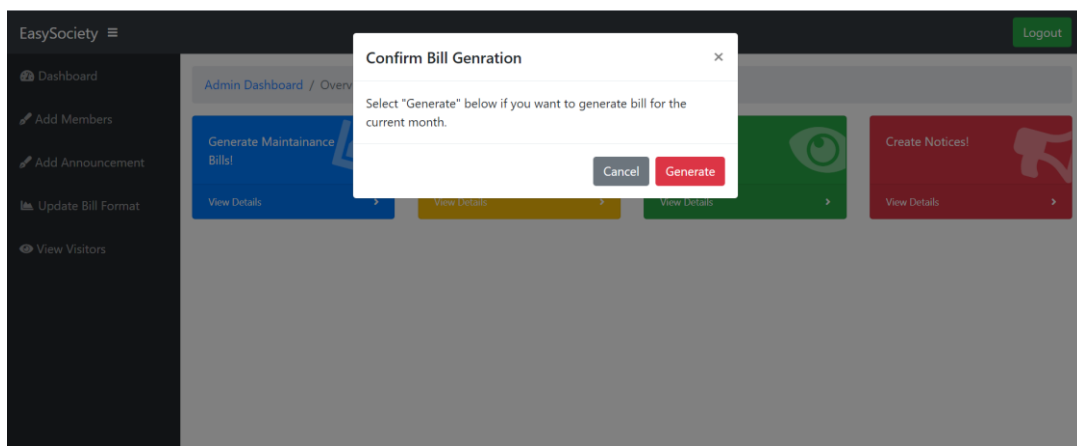
- **View Visitors**



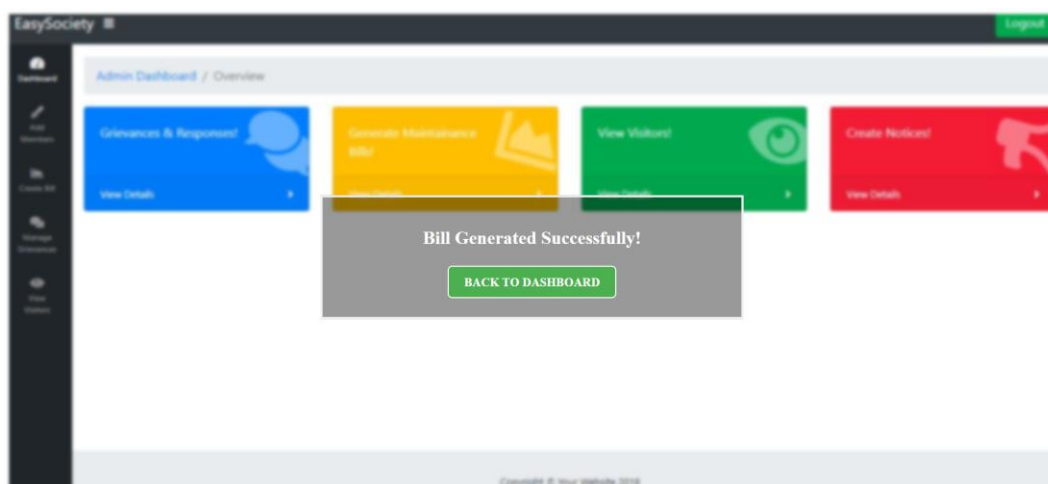
Date	Visitor Name	Visitor Contact	Flat Address
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2020-10-09	Harsh Singh	9878985623	D-20
2020-10-10	Dinesh	9802929284	A-30
2020-10-17	Dinesh	989756343	D-23
2020-10-30	Suresh Ambar	9898435544	C-32

- **Generate Maintenance Bill**

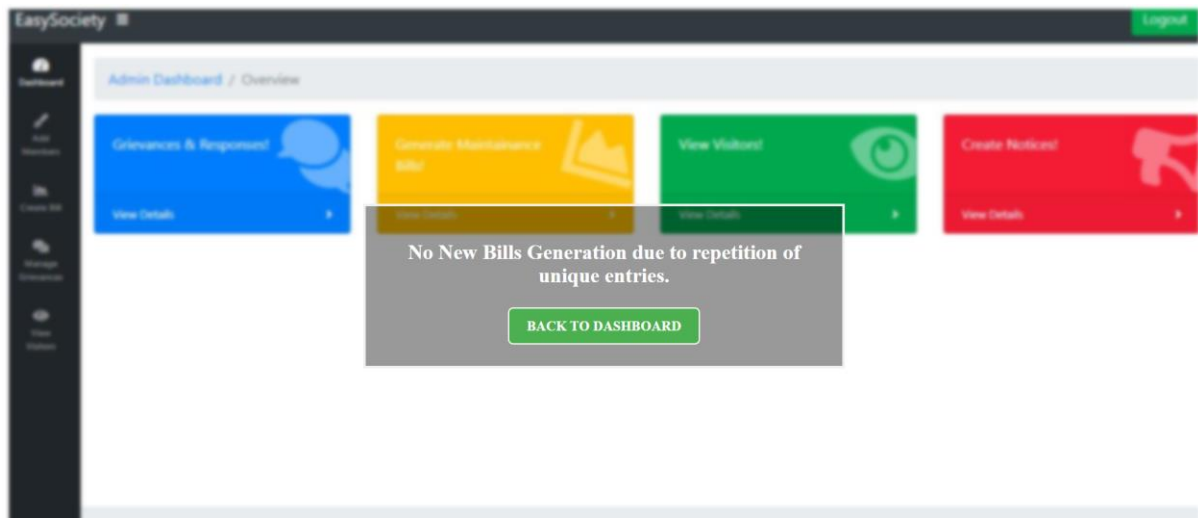
Every month, the bill needs to be generated for every user.



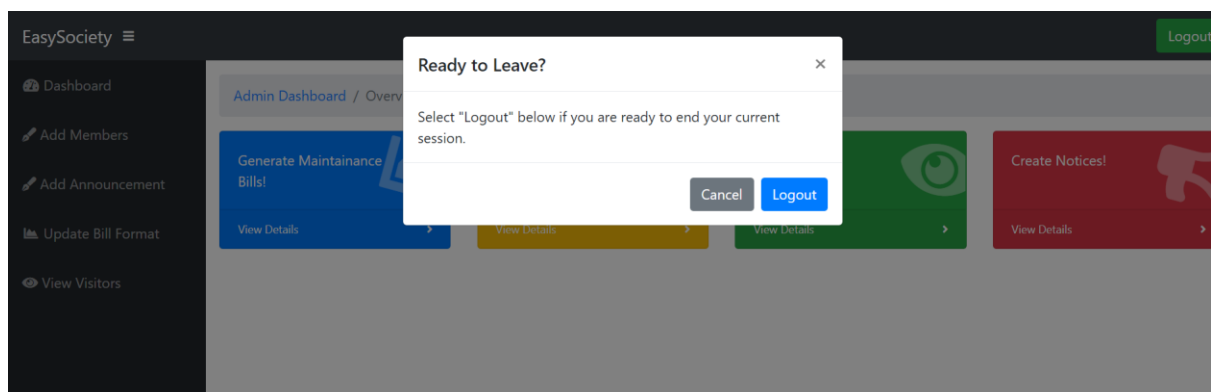
Once the bill is generated, the notification is sent.



However, the bill should not be generated for the same user and the same month. So, if there are no new users for whom the bill has not been generated in that month, the following notification is sent.

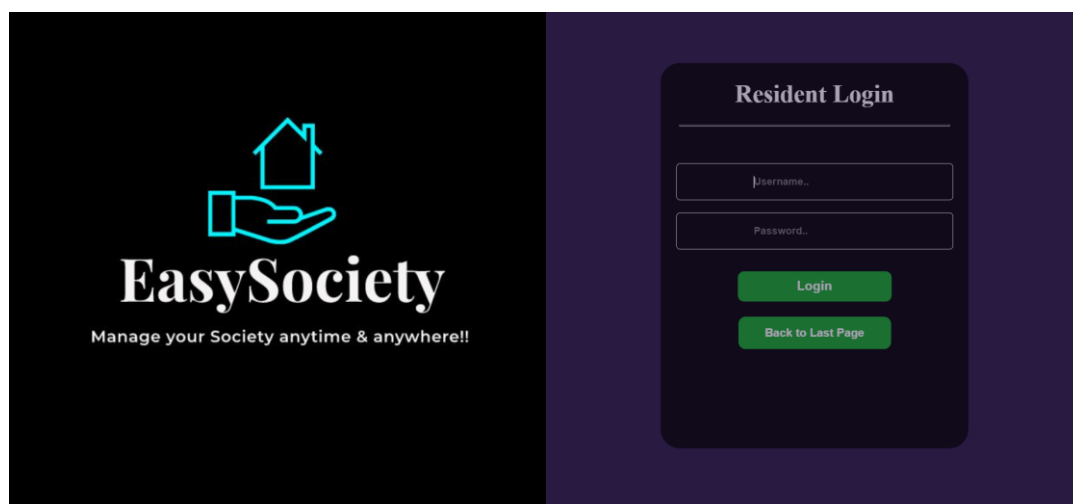


- **Admin Logout**

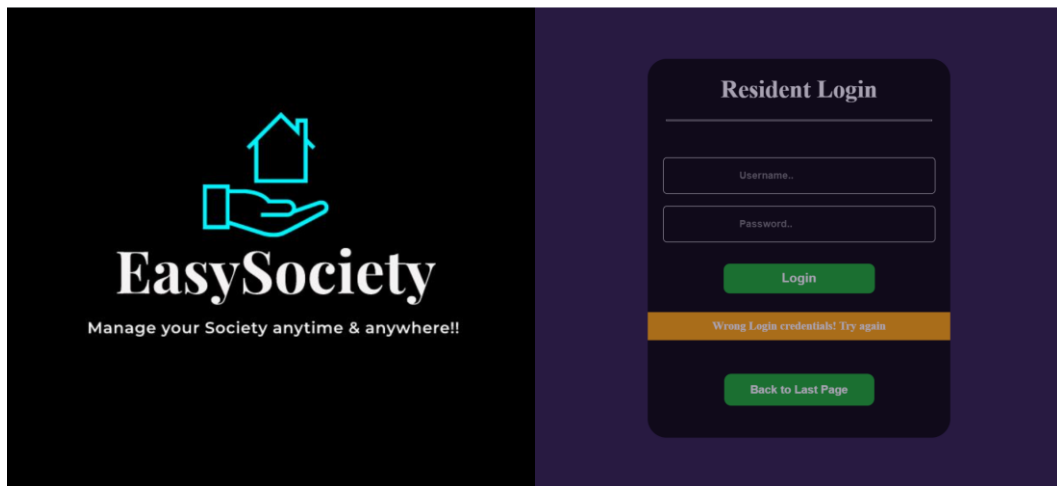


D. Member/User Module

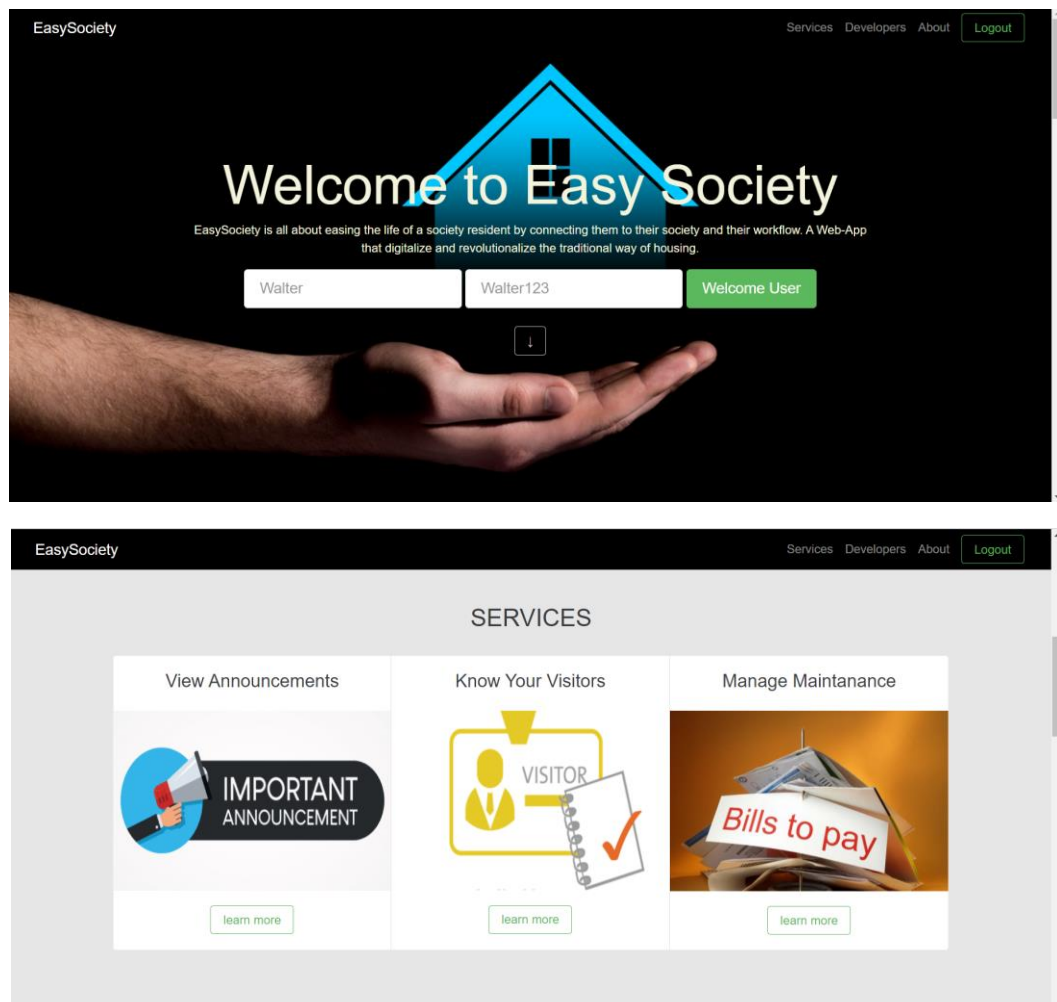
- **Member Login**



When the username or password is wrong:



When the username and password match, the user dashboard is presented.



EasySociety

Services Developers About Logout


About EasySociety

EASYSOCIETY is a Web-App that acts as a platform between the residents of a society and the activities and working of the society by providing them the services through which they can keep track of important activities and announcements, keeping track of visitors ,online access of the society bills and the complete freedom to share their grievances & ideas at anytime and from anywhere.

EasySociety is all about easing the life of a society resident by connecting them to their society and their workflow. A Web-App that digitalize and revolutionize the traditional way of housing.

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EasySociety

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Meet Our Developers Team

We as a dedicated team working hard to provide you the help in your crucial moments.




Harsh Singh

Member Of Developer Team



Akash Singh

Member Of Developer Team



Anuja Somthankar

Member Of Developer Team

EasySociety






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Person Who Is Always Present With Innovative Ideas Ensuring Productivity Of The Platform.

Backend Logic Building And The Connectivity Establishment In The Development Of EasySociety.

Authentication Oriented Part Of EasySociety And Also Generated The Important Test-Cases.

Connect us!

Developer Contact Details

Akash Singh	Harsh Singh	Anuja Somthankar
Phone:+91 7276087434 M@il ID:akashsingh13201@gmail.com	Phone:+91 8390313364 M@il ID:harshsatishsingh1174@gmail.com	Phone:+91 8976233112 M@il ID:anujasom@gmail.com

- **View Visitors**

Unlike in security and admin module, here, only those visitors will be shown who visited that particular owner's flat.

EasySociety

Logout

Dashboard

Notice Board

View Bill

View Visitors

Visitors

Show 10 entries

Search:

Date	Visitor Name	Visitor Contact
2020-10-10	Dinesh	9802929284

Showing 1 to 1 of 1 entries

Previous

1

Next

- View Notices/Announcements

EasySociety

Logout

Dashboard

View Notice Board

View Bill

View Visitors

Notice Board

Show 10 entries

Search:

Date	Subject	Message
2020-11-06	Society Meeting 4	Society meeting will be held on Saturday.
2020-11-03	Covid 19	Masks are mandatory.
2020-10-24	Society Meeting	Society meeting at 3pm 26/10/2020.
2020-10-09	Notice about Sweepers	Sweepers won't be coming on next Thursday and Friday.
2020-10-09	Navaratri	Navaratri celebration is cancelled due to COVID-19.
2020-10-08	water cut	Water Cut will be experienced in next 2 days. Please use water with care.

Search filter example:

EasySociety

Logout

Dashboard

View Notice Board

View Bill

View Visitors

Notice Board

Show 10 entries

Search: society

Date	Subject	Message
2020-11-06	Society Meeting 4	Society meeting will be held on Saturday.
2020-10-24	Society Meeting	Society meeting at 3pm 26/10/2020.
2020-10-03	Society Meeting 2	Meeting will be held tomorrow.e

Showing 1 to 3 of 3 entries (filtered from 10 total entries)

Previous

1

Next

- **View Bill**

Here, the user will find their maintenance bill of the month if they haven't paid yet. The bill is detailed, showing the break down of the bill. This is done to maintain transparency between the admin and the housing member.

The screenshot displays the 'EasySociety' web application interface. On the left is a dark sidebar with navigation links: 'Dashboard', 'View Notice Board', 'View Bill' (highlighted), and 'View Visitors'. The top right corner features a 'Logout' button. The main content area is titled 'DUE MAINTAINANCE : November-2020' and includes a 'View Payment Receipts' button. Below the title, the flat details are shown: 'Flat Address : A-30' and 'Flat Owner : Walter'. A table lists the charges for the month, with a total of 1650. At the bottom of the table area are buttons for 'Proceed to Pay' and 'Generate PDF'. The footer contains the copyright notice 'Copyright © Your Website 2018' and a small upward arrow icon.

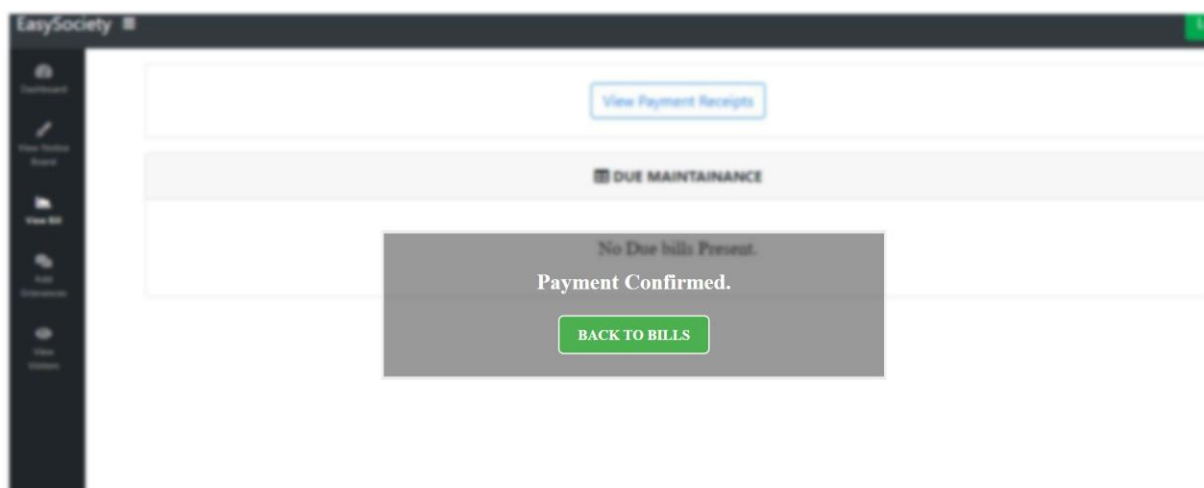
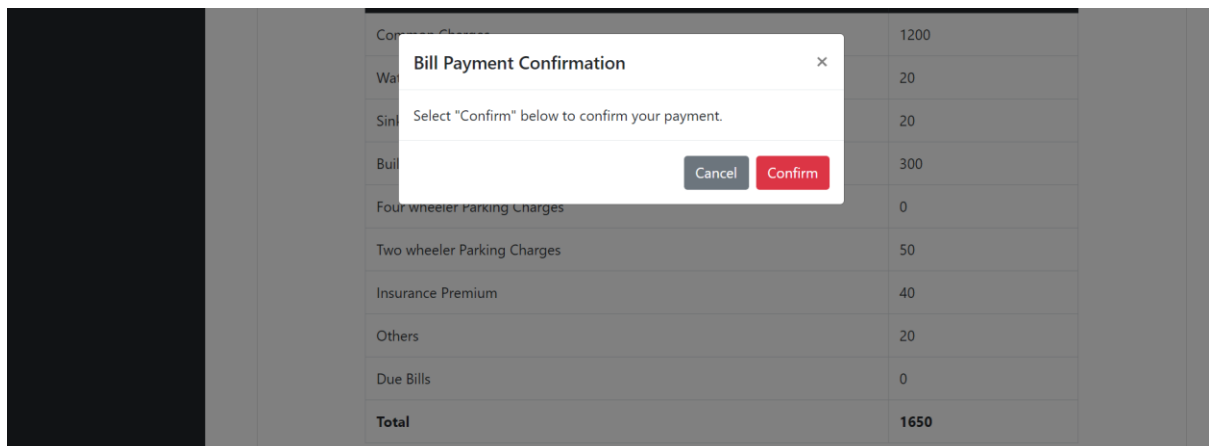
Parameters	Charges
Common Charges	1200
Water Charges	20
Sinking Fund	20
Building Repair Fund	300
Four wheeler Parking Charges	0
Two wheeler Parking Charges	50
Insurance Premium	40
Others	20
Due Bills	0
Total	1650

This detailed bill can also be downloaded.

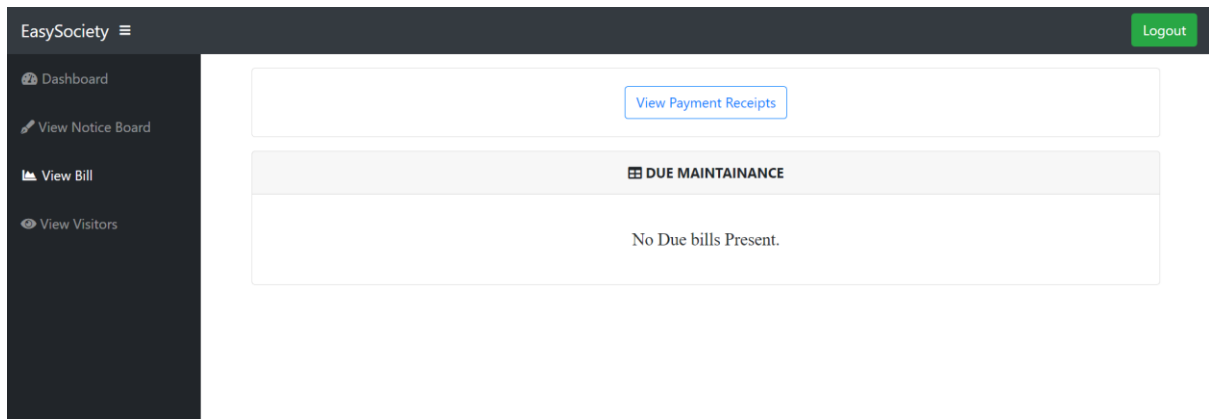
sample-file (3).pdf 1 / 1

Parameters	Charges
Common Charges	1200
Water Charges	20
Sinking Fund	20
Building Repair Fund	300
Four wheeler Parking Charges	0
Two wheeler Parking Charges	50
Insurance Premium	40
Others	20
Due Bills	0
Total	1650

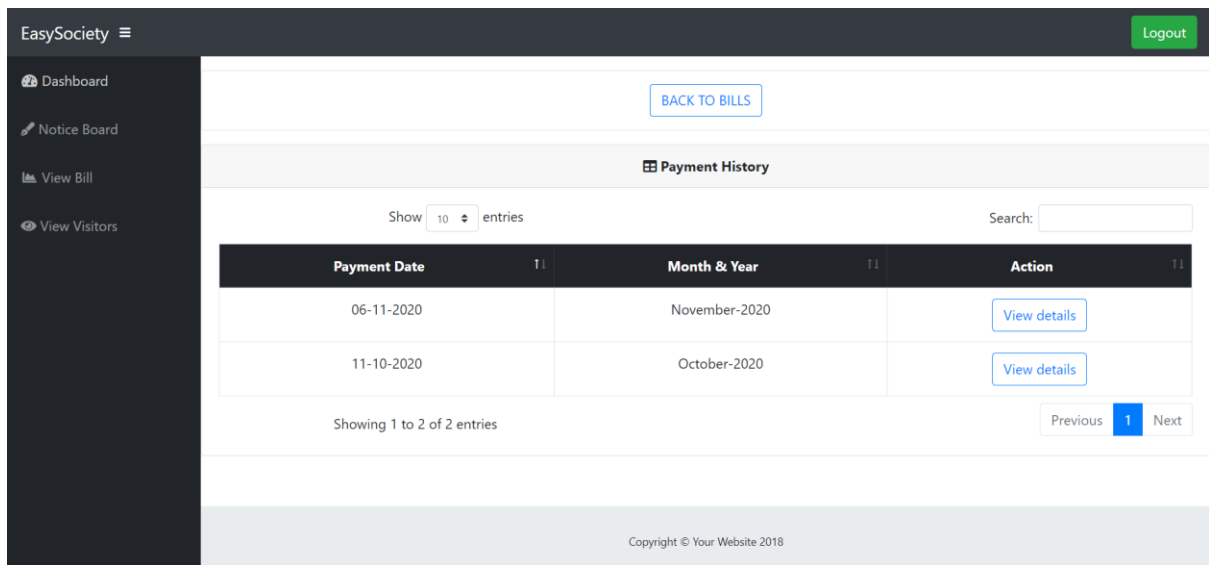
The bill can then be paid.



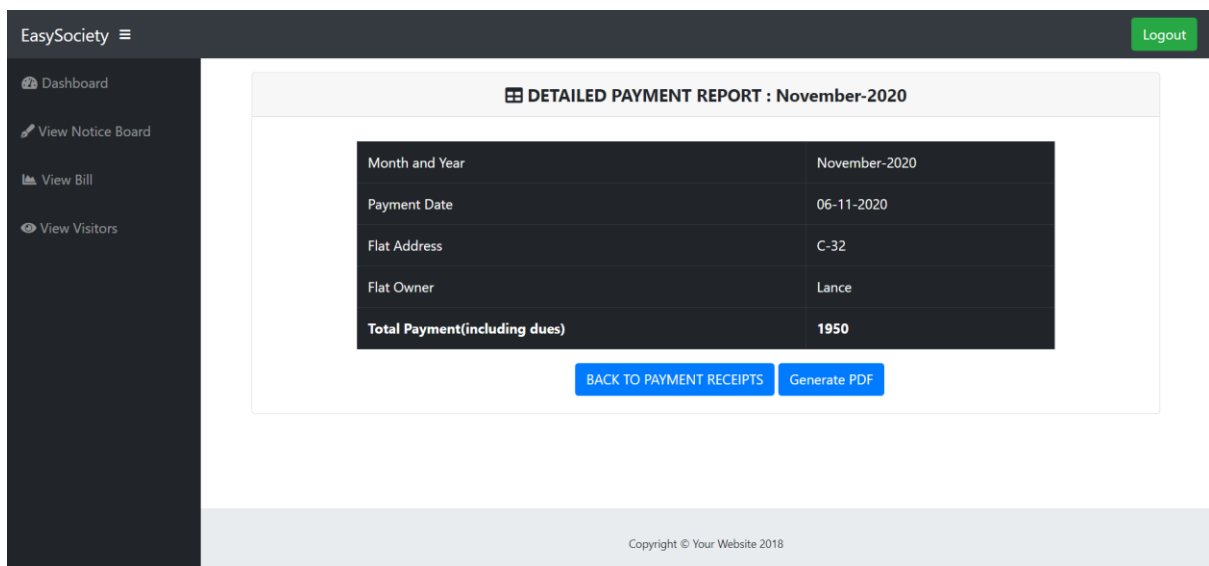
Once the bill is paid, the page will now look like this.



The previous payments can be reviewed and the receipts can also be downloaded.



The details of the bills are shown and the option to download is given.

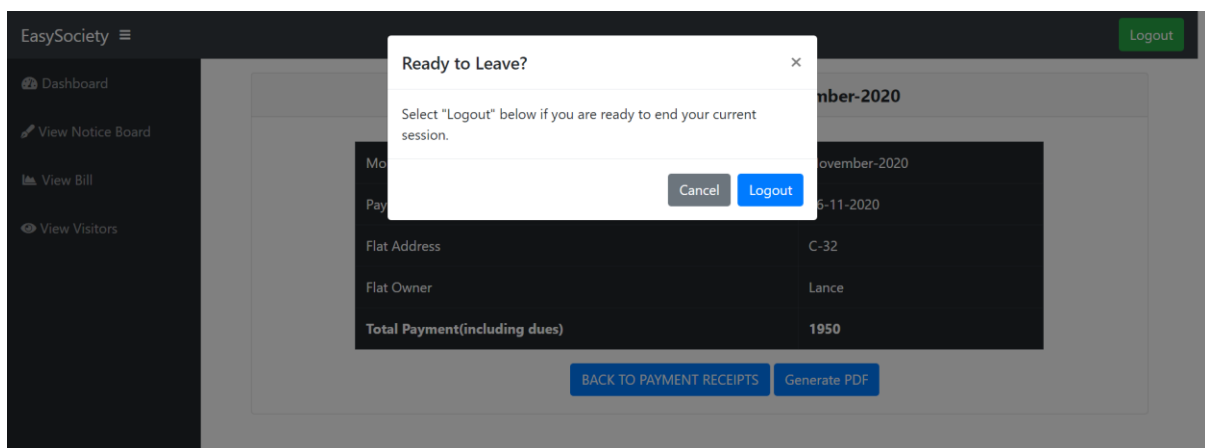


The downloaded bill receipt will look like this.

sample-file (4).pdf 1 / 1

Month and Year	November-2020
Payment Date	06-11-2020
Flat Address	C-32
Flat Owner	Lance
Total Payment(including dues)	1950

- **Member/User Logout**



6. Results and Discussion

Upon building this system, the main aim of simplifying the working of the society work was achieved. It is a Xampp and Php based system with frontend being built in HTML, CSS and Bootstrap. The system is divided into 3 parts, the user module, admin module and the security module.

The security module allows the security personnel to log in the people who visit the society to keep a track of the records. The admin module allows the admin to push out important notices and add new members to the society. The proper constraints have been implemented to avoid any mistakes in the member records. Along with that, the automatic bill generation and payment section will track the maintenance bill payment of every user. If the prices need to be updated, it can be easily done. The notice board can also be updated through this module. All the tables can be sorted however required and a search option is provided to search a particular entry, either in the visitors table or the notice board.

The user module is dependent on the admin module. Whatever notices are updated by the admin, same changes will be updated on the user side. The bill generation will be done very

month and the payment can be done online. The receipt copy can be downloaded. The bill shows a detailed account of every component of the maintenance. It is a more transparent and simplified process. The user can also easily keep a track of the people who visited their flat.

The EasySociety website is an all-in-one application for a society which needs to computerise their system to make it more accessible and reliable.

Conclusion

In conclusion, this project was implemented using frontend tools like HTML, CSS, Bootstrap and backend tools like PHP and JavaScript. The database used was MySQL through PhpMyAdmin. 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. It is a method to simplify the work of the managing committee by providing features like broadcast notices, automatic bill generation, add new members, and review the visitors in the society. For the user, the system is useful because of various functionalities like reviewing who visited their flat, online bill payment and receipt generation and the notice board feature.

This website will make the functioning of the society more transparent and reliable. This will make the entire system of managing a society a much easier task because it will transition from a manual to a computerised system. The system is built keeping in mind the need of the user, admin and the security personnel, to make their lives easier.

In future scope, we plan on adding a grievance module to the website, where the user can lodge a complaint or grievance and the admin can review it. Furthermore, the website can also be converted into an android application so that the consumer can use it conveniently over their phones.

References

[1] Study of Implementation of Society Management System - International Journal of Computer Applications (0975 – 8887) Volume 132 – No.1, December2015

[2] Housing Society Management - INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME 7, ISSUE 5, MAY 2018

[3] Housing Society Management Web Application with recommendation system - Imperial Journal of Interdisciplinary Research (IJIR) Vol-3, Issue-4, 2017 ISSN: 2454-1362

[4] Online Housing Society Management System - International Journal for Research in Applied Science & Engineering Technology (IJRASET)

[5] Society Management Application on Android - International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 05 Issue: 05 | May-2018