

IoT Secured, Managed Society

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Abstract— The project “IoT Secured, Managed Society” helps the society members in the field of society activities. Activities as mentioned above and there are many other functionalities of the application that helps to manage society efficiently. The objective is to become active society member with the help of active participation in society. Members can know each other in a good manner, can maintain their house with important contacts, track the flow of money from society account, locked houses and houses for sell details and can keep their eyes on visitors that visits their home.

Key words: Internet of Things, Android, Society, Management

I. INTRODUCTION

As we all know that for making something big and efficient, we need to focus on every single small part of it. For making India Digital, we need to make our surrounding digital first. As a small contribution towards country and society, our project is “IoT Secured, Managed Society”. We all are living in society, apartments or say row-houses, we are facing many problems while working in society and working for society. Project is totally based on making the activities of society simple and effective by making it digital. Activities like event organization, visitors’ record, expense record, meetings management, etc. are the major activities that will be managed efficiently with the help of an android application. For the purpose of security, Internet of Things is also playing a good role.

II. LIST OF MODULES

A. Registration:

- 1) Login: Here the user can enter the necessary details and can login to the account and further carry out the activities he/she desires.
- 2) Update Information: By clicking on this and providing the essential information user can be a part of the society community so that user can get all the services
- 3) He/she requires. User will provide his name, mobile number, e-mail, etc. details and will also be able to access forgot password functionality.
- 4) Forget Password: Here user can give the proper answer to the security questions in order to send the request to reset the password.

B. House Information:

Geographical details like place, house number, number of vehicles and member details like name, email, occupation, birthday, mobile number, etc. will be able to see.

C. Sales Corner:

In this module user will able to search that which houses in the society are for rent as well as for sell. All other information regarding this like house details, contact person detail, photos, price range, etc. will be provided for better access and reliability.

D. Help Desk:

In this module information of all the maintenance person will be provided. Helpers like electrician, plumber, milkman, sweeper, RO services, etc.

Also, the rank will be given according to their up-votes and down-votes by the society members.

E. Events:

All the information related to the past events and upcoming events will be shown in this module. Organizer details, scheduled dates and other details and photos user will able to see.

F. Audience Poll

Whenever the election comes for electing new committee members of society like secretary, treasurer, event organizer, etc. will be supported by on mobile election polling.

G. Complain Box:

Simply user will fill up a form related to his complain subject and description and it will be given to secretary for solution of that complain.

H. Visitor Registration:

When some other than society member comes for the visit or any purpose of society, his information will be recorded by security guard at the gate of the society. It’s one the security features of the project.

I. Expense Management:

In this module the expenses will tracked. From where the money is coming into the society fund and where it is going. Additionally, expense of the events will also will be tracked.

J. Internet of Things (IOT):

This is based on the security of the society. Society gate open/close, street light On/off and the RFID sensor which will help us to open and close the gate for society member and guests, thus it provides security. These are the IoT features of the application.

III. WHY APPLICATION?

So might be thinking why we should go for an android application while we have excellent man power and security guard as well as secretary to maintain and manage our society in a wonderful way. Here are some key points about the advantages of switching to digital society.

A. User Friendly:

Today over 75% of the digital world is based on smart mobile phones. So it is said that people are more convenient to use mobile phones instead of computers. Android applications are easy and friendly in nature for users.

B. Reliable:

Android applications are more reliable in accessing as well as operating. It takes very less space in our mobile phone. It also requires less memory for processing the application. So in terms of Time and Space, it has a very good impact on users and companies as well.

C. Easy to maintain:

Maintenance of anything is very important. It can actually increase the life of anything. Proper maintenance can lead to smooth life for users and developers as well. Android applications are very easy to maintain. Main thing to consider in our mind while maintaining is the Data Safety. In this world of big data, our data plays a crucial role in maintenance. But with the help of tools and methods of maintenance it has become easy.

D. Secure:

Security of our application and users are the first key point for any company. Applications can be accessed only when proper user credentials are matched. User id and passwords builds the base of security. Most of the android applications are secured as they ask for user id and password every time when somebody wants to access the application.

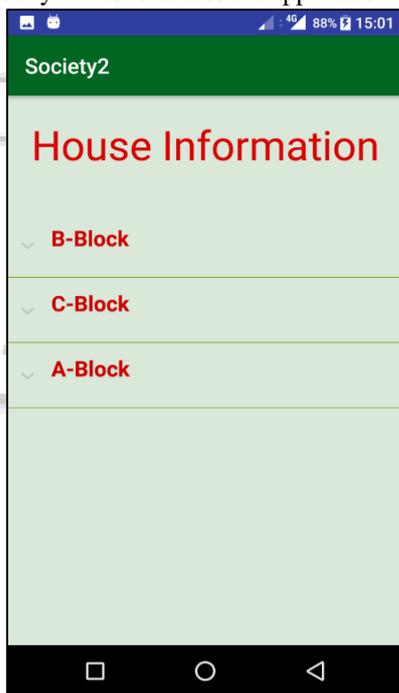


Fig. 1: House Information

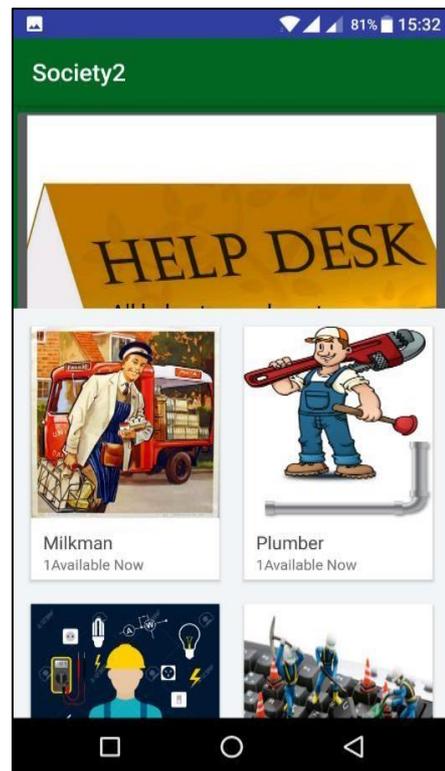


Fig. 2: Help Desk



Fig. 3: Complain-Box

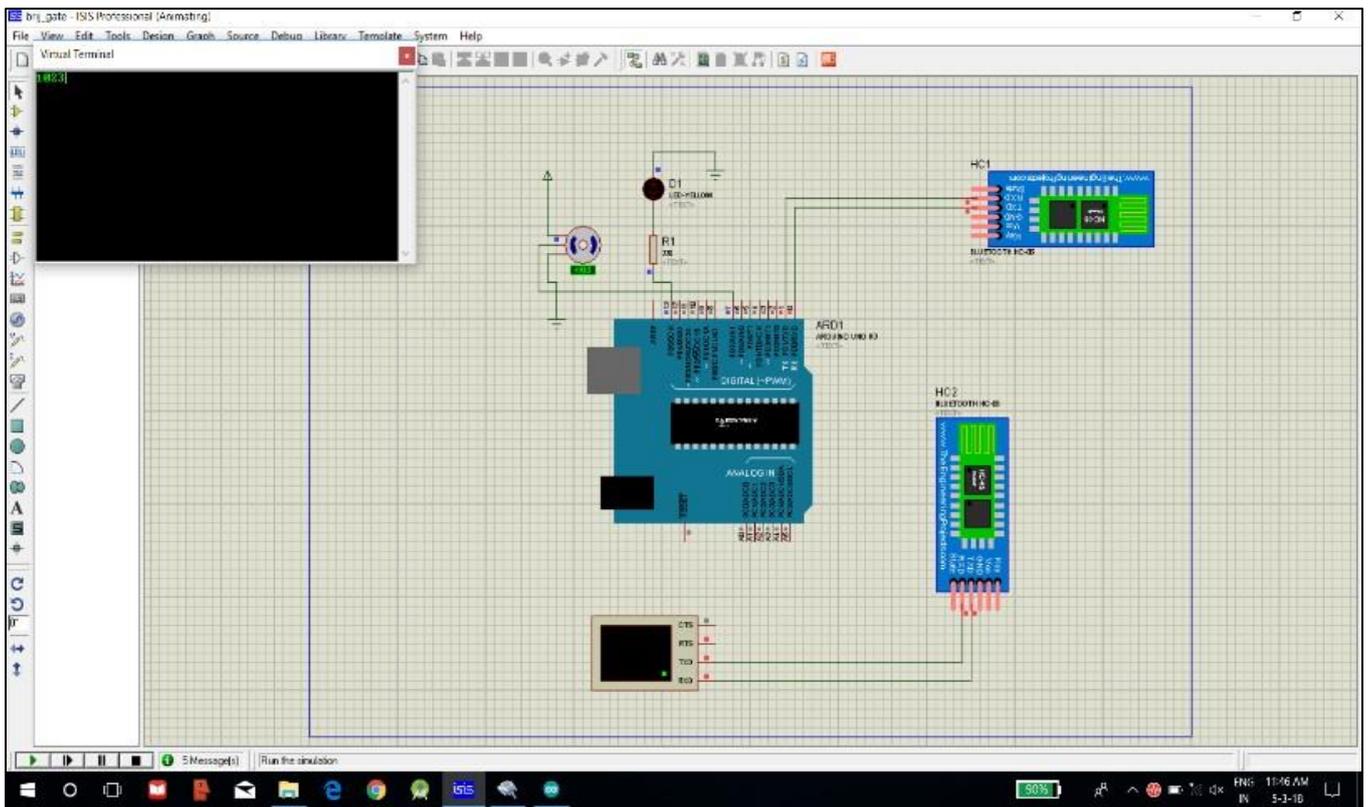


Fig. 4: Connection for Society Gate (open/close) & Streetlight (On/off)

IV. CONCLUSION

The overall idea of this application is that members including secretary and other committee can handle each and every task of society from wherever they are and without wasting any extra time for that. Securing the society from unauthorized person, activities and theft with the help of IoT.

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