ijRASET

International Journal For Research in
Applied Science and Engineering Technology

INTERNATIONAL JOURNAL
FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

International Journal for Research in Applied Science & Engineering Technology (IJRASET)

Automated Security System

Bhagyashri Tembhare[1], Triveni Meshram[2], Ashwini Meshram[3], Punam Panchbhai[4], Prof-Deepali Nirvikar[5]

Department of Eelectronics and Communication Engineering MIET, Shahapur Bhandara , MH-441904

Abstract: In this project, a home security system has been designed, developed, tested and validated. Security is basically a door security system which consists of different mode of input elements while the output elements react to the OTP received from the input elements. The three times wrong OTP make a thief alarm, presence detecting circuit and blow a security alert. An OTP is applied as the communication tool between the hardware and the computer. A GUI is developed and configured which enables function of generated OTP provider. The auto generated OTP are delivered to the house owners and if he try to break security then alert to the police forces. The Automated Security System providing best security .
Keywords:Controller,OTP,ASS,AHSS

I.   INTRODUCTION

OTP door lock system can be also known as Automated Home or intelligent home which indicates the automation of door lock used in homes. This could be the control of door lock with strong security house and three times wrong purposes or giving the alarm alteration or indication in case of security leakage. Home security has the main aspect from the point of safe and secure environment [1]. Security is an important aspect or feature in the smart door locking system [2]. The OTP concept of smart homes offers a reliable, efficient and safe environment for occupants. Our security systems keep homeowners, and their property, safe from thief by giving the indication in terms of alarm. However, A OTP base home security system offers many more benefits This paper mainly focuses on the security of a home when the user is away from the place. Two systems are proposed, one is based on OTP communication technology and other uses security to detect the thief.

II.   LITERATURE REVIEW

Door lock security systems are classified based on technology used as 1) Password based, 2) Biometric based, 3) GSM based, 4) smart card based, 5) RFID based, 5) Door phone based, 6) Bluetooth based, 7) Social networking sites based, 8) OTP based, 9) Motion detector based, 10) VB based, 11) Combined system.

III.   PROBLEM DEFINITION

Security control system requires receiving data and accurate at a certain distance, so tha;t users can place devices freely at important locations for the data display receiver but no global security door lock system. Our system is user friendly and easy to understand and more efficient than other system. The system must not be hacked by anyone, no matter in various ways including on input source power, the content of data channel content of receiving data and location of security device's main processor is stored. The system process and data receiving will not fail. Many of other security systems have some limitations on the usage of security devices. However, it is inconvenient that a security system requires extensive use for the system to operate efficiently and be able to detect objects in every area of the house. The use of security component devices is also very important in security systems. Component is sensitive to human motion. It is too fast to close and open door lock with strong security. No tight security for door lock .High cost for security system.

International Journal for Research in Applied Science & Engineering Technology (IJRASET)
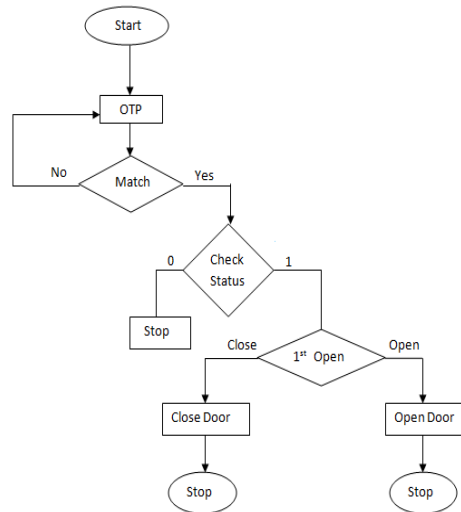

Fig – flow Chart

IV.   PROPOSED WORK

Our system generate OTP automatically by user choice like for open/Close door and user can see generated OTP in OTP mobile app and enter OTP in the controller screen and if OTP is correct then controller take action to open or close door on the basic of command type . The project uses the OTP secure technology and security Systems to design this application. The main objective of this project is to design a system that check the OTP messages if any, received from the user mobile and check the status of the open or close as per the message received from the mobile.The main concept behind the project is receiving the sent OTP and processing it further as required to perform several operations. The type of the operation performed depends on the nature of the OTP sent.

V.   CONCLUSIONS

 Automated home security system (AHSS) has been designed and developed. Our system generate OTP automatically by user choice like for open/Close door and user can see generated OTP in OTP mobile app and enter OTP in the controller screen and if OTP is correct then controller take action to open or close door on the basic of command type. Our project has large scope for high security in sensitive area and to protect valuable property. Security control system requires receiving data and accurate at a certain distance, so that users can place devices freely at important locations for the data display receiver but no global security door lock system. Our system is user friendly and easy to understand and more efficient than other system.

VI.   ACKNOWLEGMENT

We would like to thank to Prof. I.P. Nikose, HOD of Electronics and Communication Engineering, MIET, Bhandara, Prof. I.P. Nikose and Prof. Deepali Nirvikar ,faculty of Electronics and Communication Engineering, MIET, Bhandara, for their guidance , encouragement , valuable comments and suggestions for enhancement the quality of work.

REFERENCES

[1]   "Shubhajit Dey","wed based real-time home automation and   security system" issni
[2]   "Vinay Sagar",A 2D-dct Image in Matlab and Voice Information Based Remote Home Monitoring and Security International Journal of Smart Home .

INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Call : 08813907089 (24*7 Support on Whatsapp)