Smart Door Security System

Aphasana Mulla[1], Rahul Pawar[2], Siddhant Kedare[3], Kunal Barge[4]
Lecturer, Department of Electronics & Telecommunication[1]
Students, Department of Electronics & Telecommunication[2,3,4]
Bharati Vidyapeeth Institute of Technology, Navi Mumbai, India

Abstract: *Recently home security system has been very poor. These research projects consist of a smartdoor locking system which provides a great solution to improve the home safety management of doors. Arduino IDE software and a Bluetooth module hc-05 were used to connect between the smartphone, the microcontroller and the door lock to give an easy access to authorized persons. The person with the authority to open the door can have access within their fingertips by installing the required application which has open/close button. The hc-05 serves as a receiver and transmitter but also communicates with the microcontroller which serves as a processing unit in this project and decides whether the password entered by the user is right or wrong and then send the servo motor to either open or close the door. If the password is right the user can have access to the door and when the password is wrong the user will have no access whatsoever. Enhancing the safety and security of main entrance doors.*

Keywords: Arduino, Bluetooth Module, IOT, Servo Motor

REFERENCES

[1]. Automated Intelligent relay coupled door control system using technology. By A. Rajesh B.M.O. Al-thobaiti, I.I.M. Abosolaiman, M.H.M. Alzahrani, S.H.A. Almalki, M.S.

[2]. Soliman, "Design and Implementation of a Reliable Wireless Real-Time Home Automation System Based on Arduino Uno Single-Board Microcontroller", Vol. 3, No. 3, pp 11-15, July 2014.

[3]. D. Javale, M. Mohsin, S. Nandanwar, M. Shingate, "Home Automation and Security System Using Android ADK", Vol. 3, Issue 2, pp 382-385, March 2013.

[4]. D. Saxena, P. Bisen and S. Bhoyerkar. 2012. Development of Intelligent Security and

[5]. Automation System, International Journal of Advanced Research in Computer Science and Electronics Engineering (IJARCSEE). 1: 139- 143.

[6]. Kumar , C. Dinesh , R. Aravind Vol 4, 16th May 2015

[7]. M.A.E. Mowad, A. Fathy and A. Hafez, "Smart Home Automated Control System Using

[8]. Android Application and Microcontroller", International Journal of Scientific & Engineering Research, vol. 5, Issue. 5, pp 935-939, May 2014.

[9]. Shafana A.R.F.1, Aridharshan A. International Journal of Computer Science and

[10]. Information Technology Research ISSN 2348-120X (online) Vol. 5, Issue 3, pp: (26-30), Month: July - September 2017. S. Kumar, 2014. Ubiquitous Smart Home System Using Android Application. International Journal of Computer Networks and Communications (IJCNC). 6: 33-43.

[11]. S. Sankaranarayanan, A.T. Wan and A. H. Pusa, "Smart Home Monitoring using Android and Wireless Sensors", I.J. Engineering and Manufacturing, vol. 2, pp 12-30, Aug 2014.

[12]. V. Madan and S.R.N. Reddy, "GSM-Bluetooth based Remote Monitoring and Control System with Automatic Light Controller", International Journal of Computer Applications, Vol. 46, No 1, pp 20-28, May 2012