

RFID Attendance System

Khushi Chunarkar¹, Shweta Maheshkar², Ashlesha Patil³

Students, Department of Computer Science Engineering^{1,2,3}

Rajiv Gandhi College of Engineering Search and Technology, Chandrapur.

arryachunarkarharrya@gmail.com, shwetamaheshkar00@gmail.com, patilashlesha875@gmail.com

Abstract: Taking traditional manual pen-paper attendance, which is very time-consuming, insecure and usually leads to human errors as well as prone to misconduct, as the valuable time and work gets wasted in organizing and structuring the attendance data in registers. Hence to overcome this major hectic problem, we have used relational database management system in real time with appropriate security measures to access, manipulate and represent the data on the basis of the unique RFID tags, which gets fast and easily scanned on the RFID reader. This system consists of hardware and software with most trending implementation of a lightweight MQTT protocol in IoT technology; designed to take an attendance on the basis of RFID technology with NodeMCU firmware. The main objective of this proposed system is to make the effective and efficient computerized attendance on institutes website in excel sheet format with a particular date and students can also see their particular subject attendance on the webpage.

Keywords: IoT, RFID, NodeMCU, MQTT protocol

REFERENCES

- [1]. Sri Madhu B.M, Kavya Kanagotagi, "IoT based Automatic Attendance Management System", International Conference on Current Trends in Computer, Electrical, Electronics and Communication, ICCTCEEC 2017, pp. 83- 86.
- [2]. H. K. Nguyen, M. T. Chew, "RFID-Based Attendance Management System", IEEE 2017, doi:10.1109/RTTR.7887874.
- [3]. H. Zaman, J. Hossain, T. Anika and D. Choudhury, "RFID based attendance system", 2017 8th International Conference on Computing, Communication and Networking Technologies (ICCCNT), July 2017, doi:10.1109/ICCCNT.8204180.