Smart Classroom Attendance Using RFID Module

Prof. S. D. Yelgatte[1], Swarali Subhash Baravkar[2], Pavan Gorakh Gund[3], Mandar Chandrakant Kokate[4], Premraj Vitthal Shinde[5], Shubhankit Sharma[6]

Assistant Professor, Department of Electrical Engineering, NBN SINHGAD School of Engineering, Pune[1]

Student, Department of Electrical Engineering, NBN SINHGAD School of Engineering, Pune[2,3,4,5,6]

Abstract: *The world is leading to the edge of the automation. Automation also consists up gradation of the technologies. In this era the RFID (Radio Frequency Identification) is one of the best contactless communication systems. It is nothing but the interfacing of RFID with Arduino. It can read the wireless data, and also store it. In this research, we proposed an automatic attendance by using RFID. In this research when the student card brought close to the RFID module, it reads the card data, verify the data with system, and stored it in its internal memory. Also, we used IR sensors to count the total number of students entered in the class. So that will be helpful to recognize total number of students present in the classroom & actual RFID tag scanned by the reader which finds out the poxy in system.*

Keywords: Attendance System, Radio Frequency Identification Technology, Arduino, Liquid Crystal Display, IR Sensors, RTC Module, etc.

REFERENCES

[1] T. S. Lim, S. C. Sim, M.M. Mansor "RFID based attendance system", University of multimedia Malacca, Malaysia, 2009.

[2] RFID Based Attendance System Raj Kumar Mistri, Kamlesh Kishore, Priyanka Nidhi, Pushpakumari, Vikrantkumar, Assistant Professor, B. Tech Scholar Dept. of ECE, RTC Institute of Technology, Ranchi

[3] Karwan Jacksi, Falah Ibrahim, Shahab Ali, "Student Attendance Management System", University of Zakho, Iraq, 2018.

[4] Ekta Chhatar, Heeral Chauhan, Shubham Gokhale, Sompurna Mukherjee, Prof. Nikhil Jha, "Survey on Student Attendance Management System", S.B. Jain Institute of Technology, Management and Research, Nagpur, 2016.

[5] Web Based Student Information Management", S. R. Bharamagoudar

[6] "Online Student Attendance System", P. N. Garad.

[7] Zahraa Salah Dhaief, Department of Computer Science, College of Education, AL-Mustansiriyah University, Baghdad-Iraq "People counting technology".