



RADIO FREQUENCY IDENTIFICATION (RFID) BASED ATTENDANCE SYSTEM

ABSTRACT



Radio-frequency identification (RFID) is a technology that uses radio waves to transfer data from an electronic tag, called RFID tag or label, attached to an object, through a reader for the purpose of identifying and tracking the object. RFID technology which is a matured technology that has been widely deployed by various organizations as part of their automation systems.

The Customer

Shri Patel Kelavani Mandal College Of Technology And B.Ed., Junagadh was established by "P.K.M. JUNAGADH". According to the change of time co-education is started in 2001. Shri Patel Kelavani Mandal College of Technology and B.Ed is managed by Patel Kelavani Mandal. The College offers Bachelor of Computer Applications, Bachelor of Commerce, Bachelor of Business Administration, and Master of Science in Information Technology and Post Graduate Diploma in Computer Applications course.

The Requirement

PKM group had requirement of Automated Time Attendance system without intervention of person and student. Student will pass from the entry location and the attendance will get registered without their special attention and intervention. Customer has requirement of MIS report for whole premises with sub institutes and locations. Student information will be registered in Tag through RFID Desktop writer with required fields which are mandatory.

Their Premises.

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THE SOLUTION AND CHALLENGES:



At the location of PKM group there are 5 to 6 different entry and exit gates which needs to be controlled with RFID System, integrated readers and antenna. Doors required to be accessed through both the sides. And students will come in lot of 1 – 50 at single point of time. All the devices are mounted on the entrance and exit gate which is heighted 15-20 feet and width of 35-50 feet. RFenergie team had installed 16 Antenna 6 controller and 1 integrated readers for the solution, which is mounted on wall and as well as on roof too. The main controller which is connected with computer which is connected with internet 24x7x365 to view the real-time data and MIS. We do have provided them one RFID reader and Writer to write details/data on the RFID tag. Total strength of the students is 15000 plus.

Benefits of the System:

The system which was installed, is beneficial to the organisation where they can track the activity of In-Out of the student without any paper work and as an when required at any site after logging in the web based system.

Customer Review:

While this is the era of automation we are happy to see the school equipped with automated attendance system. Where no manual alteration or presence is required. We can proudly say that we are equipped with such system where in friction of seconds we can provide the data to the government as and when required in stipulated time period. Because of the system we are able to get the actual attendance which helps us and parents to track the attendance of student.

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