RFID BASED FACULTY MANAGEMENT SOLUTION – TAG FACULTY

"DENTAL COUNCIL OF INDIA AUTOMATES THE ATTENDANCE OF FACULTY MEMBERS ACROSS THE COLLEGES SPREAD THROUGHOUT THE COUNTRY THROUGH A CENTRAL SYSTEM USING RFID TECHNOLOGY."

COMPANY
Dental Council of India

TYPE OF BUSINESS
Education

WEBSITE
www dciindia.org

LOCATION
New Delhi

THE RESULTS
The system ensures that faculty in each college are authenticated in real-time, allowing the college authorities to streamline their courses and schedule for the students who ultimately benefit from this

The colleges around the country have greatly appreciated this project as it has helped in building a central system accounting for all dental college faculties across the country

COMPANY PROFILE

The Dental Council of India (DCI) was incorporated under The Dentists Act, 1948 to regulate dental education and the profession throughout India. It is financed by the Ministry of Health and Family Welfare (India) and through the local state dental councils. The objective around establishing DCI was to: 1) maintain uniform standards for dental education across 290 dental colleges in India; 2) standardize the curriculum for training of dentists, dental hygienists, and dental mechanics; and 3) regulate the level of examinations and qualifications.

The Council is financed mainly by grants from the Govt. of India, Ministry of Health & Family Welfare (Department of Health) though the other source of income of the Council is the 1/4th share of fees realized every year by various State Dental Councils under section 53 of the Dentists Act

PROBLEM STATEMENT

In the past, the DCI issued paper ID cards to its faculty with a manual attendance and payroll system in place to manage attendance record and payroll calculations. This system gave rise to unauthorized practices such as "buddy punching", where a colleague would record the attendance for absent faculty members.

BUSINESS CHALLENGES

The challenges faced by DCI included:

➢ Absence of a standard identification system leading to conflicts and malpractices
➢ Manual data entry of attendance and payroll, resulting in a high percentage of human error.
➢ Manual maintenance of records, which increased processing time.
➢ Real time status reports unavailable for audits.

SOLUTION

Rasilant Technologies offered a biometric smart card solution for identity authentication and attendance tracking.

Each faculty member under DCI was issued a smart card that stored the users' fingerprint templates and personal data. Biometric readers were installed at faculty offices for recording attendance at every college. Each user had to present both their smart card and fingerprint for identity verification.

Biometric readers were connected to controllers. The entry records were then uploaded to the central server through the controller over a TCP/IP network.

Featuring an open architecture, the controller was integrated with DCI's faculty management module using Rasilant's software. As a result, all of the RFID readers across all colleges under DCI were integrated on a single network, offering a web-based solution for real time reporting.

BENEFITS

The central management system enabled real-time records to be transmitted to a central server

Identity authentication of the cardholders eliminated inaccurate attendance recording

Once installed, the smart cards can also be used for library management, canteen management or any other ePurse application in the future

The application also provided attendance function for the faculty members visiting other colleges