SMART ROLLCALL

Handheld Biometric based Class-room Attendance System

In College, taking Attendance for every class is repetitive, non-productive activity, yet mandatory. Traditional method of calling of Roll-call & marking Attendance register is being followed for ages now, which creates the need for digitising this process by an accurate, faster & convenient electronic tool involving biometric verification of student finger.
It shall also comply to the following needs:

▶ DIY (do-it-yourself) - The students shall punch their own attendance accurately & conveniently, while the lecture is ongoing, thus saving time spent otherwise.

▶ Eliminate the probability of Proxy attendance, there by fixing the known leakage.

▶ Automate Entry of Attendance Data in the College Academic MIS to capture Human errors/bias.

▶ Visibility of attendance data online among Students & parents for transparency.

▶ Mobile App for Students to view individual Attendance Report.

FORTUNA has evolved a classroom attendance solution, "Smart Roll-Call" which complies to above requirement besides being faster & effective tool to handle large Lecture Halls where even roll-call is also not possible. It is a Solution consisting of a Hand-held Biometric Hardware & Application Software to generate Analytical attendance report.

MicroLOG Bio :
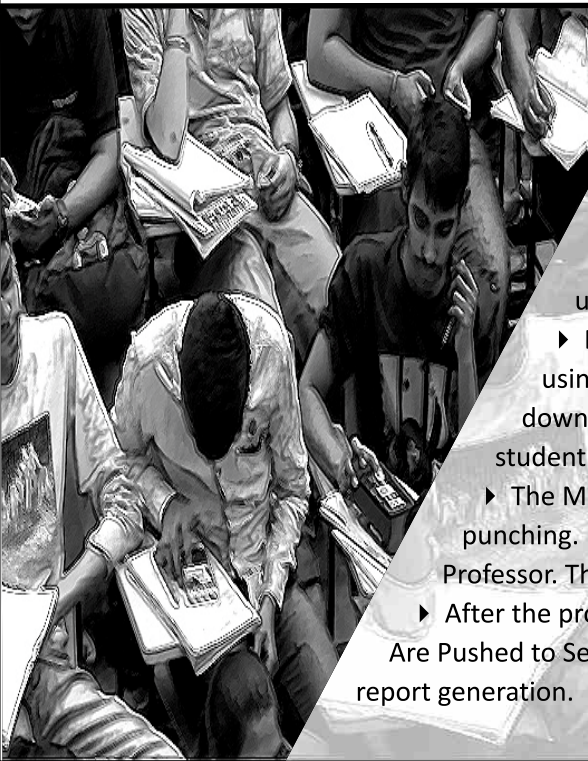Handheld Biometric Attendance management Terminal :

MicroLOG Bio automates and provides a convenient way to quickly record student attendance using Biometric Finger print based technology, to ensure identification accuracy, prevent errors, and eliminate proxy attendance even from identical twins.

MicroLOG Bio, is a Handheld, portable and rugged device(fall-proof upto 2 m). The device has a battery backup of 4-6 hrs with inbuilt WiFi module & LAN Port for Data communication.
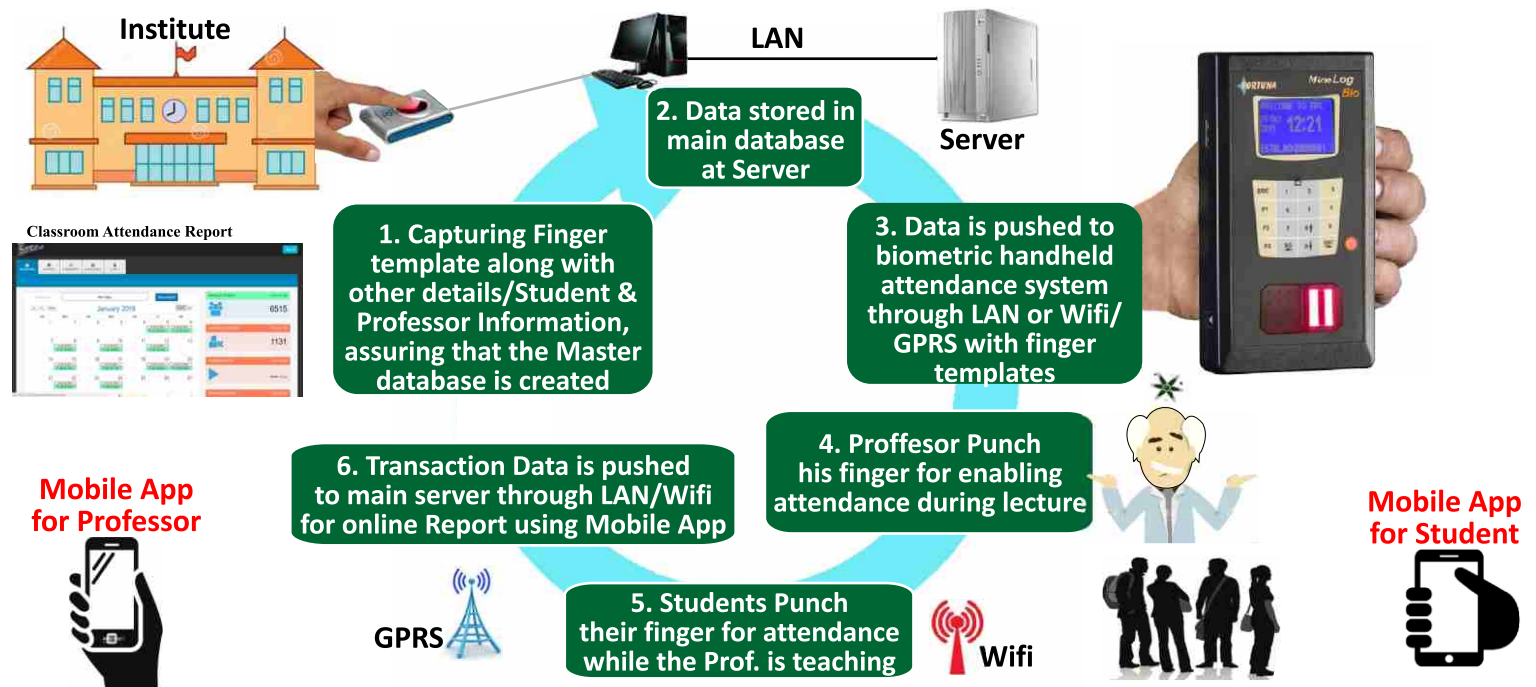
How does the solution work?
▶ One time Register students and Professor Finger Print for Biometric attendance system.
▶ MicroLOG Bio is configured initially with Master Data like the Professor, Courses being taken by him for Semester & the Students registered for the course under the said Professor.
▶ During each lecture, the professors carry the MicroLOG Bio device and logs in using his finger punches on the device. After the professor logs in, the subject drop down will appear on the screen to select the Class subject & making it ready for student attendance.
▶ The MicroLOG Bio is handed over to Students to pass it around each student for finger punching. Upon completing the Attendance of all the students, the device is returned to the Professor. The Professor punches his finger again to Log-out from the device.
▶ After the professors log-out, which is equivalent to closing the Attendance Register, the data Are Pushed to Server in bulk mode & posted in the Application database for online Attendance report generation.

Benefits of MicroLOG Bio for student attendance monitoring :

▶ **Accurate Attendance:** Educational institutions can centrally and accurately monitor student attendance to prevent proxy attendance and errors/delays in Attendance data entry from Attendance register, which are common problems involved in manual attendance marking.

▶ **Convenience:** The handheld biometric device is convenient to be carried by the professor to the classroom and also for student to hold in hand and mark their attendance by simply scanning their finger, without any training & infrastructure.

▶ **Saves Time & Eliminate Paper work:** Biometric based student attendance system saves the valuable Lecture time, everyday (normally 10% of the Class time) to record class attendance in less than 2 seconds per student.

▶ **Taking attendance during examination:** Educational institutions can equally use this solution for taking attendance during examination & replace traditional method of Hall ticket.

▶ **SMS Notification:** The automated attendance Solution also sends an instant SMS notification to the parents/Guardian of that absent student missing a lecture.

▶ **Increases transparency between Student, Professor and Parents:** Our WEB based application software called Smart Rollcall helps student/Professor/Admin to view the attendance report from any device (Mobile/laptop/tab) after due login.

Institute

LAN

Server

2. Data stored in main database at Server

1. Capturing Finger template along with other details/Student & Professor Information, assuring that the Master database is created

3. Data is pushed to biometric handheld attendance system through LAN or Wifi/ GPRS with finger templates

Classroom Attendance Report

Mobile App for Professor

6. Transaction Data is pushed to main server through LAN/Wifi for online Report using Mobile App

4. Proffesor Punch his finger for enabling attendance during lecture

Mobile App for Student

GPRS

5. Students Punch their finger for attendance while the Prof. is teaching

Wifi

What are the types of report obtained?

Keeping the Universities' requirement in mind, under mentioned reports provided for individual courses which will have the details of individual student as well as consolidated present & absent percentage:-
(A) Daily Report   (B) Weekly Report   (C) Monthly Report   (D) Semester Report   (E) Day wise Punch Report.

Semester Attendance Report

Day wise Punch Report

Daily Report

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