STUDENT MANAGEMENT

Keeping an accurate record of student's attendance and performance is not only an important but challenging job, as there are only limited number of teachers and a lot of time is wasted in taking the attendance in classes.

Schools & Colleges constantly are looking for cost effective solutions to solve these challenges. The versatile Biometrics Smart Terminal and the Smart Roll Call solution is the answer to these issues in schools and colleges, as it offers to manage student's time and attendance with security and accuracy. Student clock in and out by fingerprint authentication allowing parents and the school to know the whereabouts of the children.

As mobile payment becomes more popular, these biometrics smart terminals allow students to make payment with fingerprint authentication from their account. With this secure way of payment, parents can review all transactions and put more money into children's account whenever the funds are used up.

SMART ROLLCALL

In college, taking attendance of every class is repitive, nonproductive but yet mandatory. Traditional method of roll call attendance is being followed for ages now. It creates the need for digitising this process by an accurate, faster and convinient electronic tool involoving biometric verification of the students finger.

It shall comply to the following needs:
DIY - The students shall punch their own attendance accurately and conviniently while the lecture is going on, thus saving time.
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 error/bias.
Visibility of attendance data online among students and parents for transparency.
Mobile app for students to view individual attendance report.

MICROLOG BIO

MicroLog Bio is a handheld biometric attendance management terminal.

It automates and provides a convinient way to quickly record student attendance using biometric fingerprint based technology, to ensure identification accuracy, prevent errors, and eliminate proxy attendance even from identical twins.

With a battery backup of 4-6 hours with an inbuilt wifi module and LAN port for data communication, this portable and rugged device is fall proof upto 2m.

HOW DOES THE
SOLUTION WORK

\# **Register the students and professors fingerprint for biometric attendance system.**

\# **MicroLog Bio is configured initially with Master Data like the professor, courses being taken by him/her for the semester and the students registered for the course.**

\# **During each lecture, the professor carry the MicroLOG Bio and log in using their fingerprint. After the professor logs in, the subject drop down will appear on the screen to select the class subject and making it ready for student attendance.**

\# **The MicroLOG Bio is handed over to the students to pass it around the class for each student to input their fingerprint. Upon completing the attendance of all the students, the device is returned to the professor. The professor inputs their fingerprint to log out from the device.**

\# **After the professor logs out, it is equivalent to closing the attendance register, the data is pushed to the server in bulk mode and posted in the application database for online attendance report generation.**

Semester attendance   **Day wise attendance**   **Daily report**

BENEFITS

\# **Accurate attendance: Accurately monitor student attendance to prevent proxy error in attendance.**

\# **Convenience: The handheld device is convenient to be carried to class and to use.**

\# **Saves time: Saves valuable lecture time to record attendance < 2 seconds per student.**

\# **SMS notification: An instant SMS is sent to the parent/guardian of the student missing a lecture.**

\# **Transparenct between parents and teachers: The online application helps students/professors/parents to view attendance from any device.**