

Harness Solutions



RFID Solutions for School



“Quality & Integrity are the Pillars of Success”

Harness RFid Applications for Schools

- Student Management
- Asset Management and Security
- Attendance Management
- Human Resources Management
- Library Management
- Cafeteria Management



Student Management

Both the school and the parents are concerned about:

- ✓ Student Safety: whether the student has arrived and left safely
- ✓ Attendance: whether the student has arrived and left on time / late / early
- ✓ Behavior, grades and attitude etc. with respect to each student

A simultaneous message would be sent to the security and the teacher in case of any unauthorized entry or exit. Also, the system would enable the teachers to intimate the parents about the holidays, their ward's behaviour etc. while the parents will be able to send leave notes, grade and attendance enquiries to the teachers easily.

Attendance Management - Working

- Harness will provide Identity Cards to each student which will have all the necessary information with respect to the student such as name, photograph, address, class, section etc. This card will have a unique identification number, and will be a window to the student's records throughout his/her school timing.
- Harness reader will be placed at an appropriate location near the main gate and whenever a student enters/leaves the gate, his details will be verified and information regarding time – in/out will be recorded.
- An alarm can also be raised in case the student tries to leave before the scheduled time



Attendance Management

- After that, the reader would automatically mark the attendance of the student and upload the data on the school server
 - The system would automatically send an SMS to the parents saying ‘I have reached the school safely’ or ‘I have left school and am coming home’ thus intimating the parents about the same
 - The software would automatically calculate the attendance and intimate the concerned department enabling quicker calculation of leaves & progress
 - Schools can also issue Harness temporary passes to keep track of visitors activities & can raise alarm if anyone enters into a restricted area or disobey school’s rules
- Note – Attendance Management can be used out for all teachers and employees in the similar manner thus providing immense help with respect in Human Resource Management including payroll*



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RFID application for Cafeteria



RFid for Canteen – Brief Overview & Working

- Harness RFid intends to offer a Pre-paid card incorporated with Harness tag as a solution for the school cafeteria
- Whenever a student comes to purchase something, he will be asked to select the items he wants from a list of items available and as soon as he selects the items and swipes his pre-paid card, the amount corresponding to that item will get deducted from the card.
- For this purpose the reader offered will be having a short range so that it will not read any other card in the nearby area or doesn't read two cards at the simultaneously .
- The card will show an error if enough balance is not there in the pre – paid account of the card holder. This card can be recharged like any other pre paid card against cash or cheque etc.
- Control on the selections of food Item can be managed as per parent's Instructions.



Solutions – Inventory Management

Inventory can also be managed using Harness RFID. This includes the following features -

Stock management can be done efficiently which also involves tracking daily movement of items, which in turn will help in deciding most required items

Expiry dates of the items can be efficiently monitored and managed, items can be used as per their expiry dates leading to usage of old items before new items are used

Alarms regarding the expired items can be generated in the form of an email or sms so that can be replaced



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RFID Application for Library



Harness Solution for Library Management

- Book Management and Security
- Member Management
- Inventory Management
- Stock Management



Book Management and Security - Working

- Harness-RFid tags are attached to the books, CDs, DVDs etc and information like title, author name, acquisition date, GR no. etc. can be written on the tags
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- To run the inventory, the concerned person just needs to run a reader on the shelf making the information available thus preventing manual checks
- When a book has been issued or returned, the system would automatically record that the book has been checked out/in thus preventing manual data recording
- Harness Reader placed at the gate will automatically raise an alarm incase any person tries to take the book away without any authorization



Book Management (Contd.)

- ✓ Harness enabled id cards given to all the students and staff will be used as their library membership card
- ✓ Every time a person wishes to get a book issued, his RFID enabled library card will be read by the reader placed at the appropriate place in the library and the details will be read and updated instantly
- ✓ In case of any unauthorized removal of book from its place, an alarm will be generated at the appropriate place



Check in/out & Inventory Management

- ✓ Harness RFid self-check systems allow patrons to check-in or check-out several, rather than just one book at a time
- ✓ The drop boxes by Harness allow members to drop in books even when the library is closed. The system automatically gets updated with the book received. The reader reads the tag and uses automatic sorting system to move the book back to its original shelf
- ✓ Inventory can also be managed using Harness RFID reader which will also help in managing daily records including things like missing stock and overdue books etc.



Advantages of RFid



- ❑ Easy tracking and monitoring of every item
- ❑ Unauthorized movement of anything will raise an alarm at an appropriate location
- ❑ Human error minimized to near zero level
- ❑ Effective synchronization with the local server and ERP, enhancing the storage of information leading to quicker retrieval
- ❑ Considerable time and resources are saved
- ❑ Increased efficiency and customer satisfaction by ensuring security & availability



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THANK YOU

