TEKNOPALAS

Solutions For a Better life

RFID
LIBRARY
Tracking System

TEKNOPALAS®
Solutions For a Better Life

RFID

WEB BASED REPORTING

CONSISTENCY

CONTROL

MULTIPLE READING

AUTOMATION

SECURITY

SPEED

RFID

Speed
Security
Automation

Teknopalas® RFID Library and archive system, which is a secure and consistent technology solution, enables to track, place, automatic check in& check out processes of all documents.

It is possible to find documents quickly, count orderly, secure entry & exit processes and solving wrong placement problems with sectional search thanks to this system. Also, it is possible to report quickly using, photocopy, entry & exit frequency and time of all documents with the help of this system.

SYSTEM FEATURES

RFID TAG

RFID Tags are used in RFID systems instead of barcode tags which are used for barcode systems. Barcode information can be printed on RFID tag optionally. Barcode can be stuck on the surface or inside of the material. Tags consist of chip and antenna. Barcode information, security information (open/close) and other required information are stored into the chip on the tag. It can be different sizes according to RFID reader or material dimensions. It has longer life span than barcode tags.

COUNTING MODULE

It works through hand terminal and reports are monitored on computer which is used for RFID applications. Counting can be done while walking between the shelves in the archive or library with hand terminal by reading materials from some distance. It is possible to continue counting which could not be completed.

WRONG PLACEMENT MODULE

It is a kind of module which identifies place of material which should not be at the shelf by the help of hand terminal. To find wrong placed material on a shelf, first the RFID tag of related shelf needs to be read and material amount information of related shelf will be seen on hand terminal screen with RFID codes. While the materials are being listed, warning beep is heard for each material located in a wrong place. It is also possible to monitor the information of material located in a wrong place.

FINDING MODULE

It is the module which finds and locates the searched document. Information of work is called by defining searched material in hand terminal. Searching and finding process can be done from some distance while walking with hand terminal between the shelves. Warning beep level increases when you get closer to required or searched document. A different kind of "beep" warning can be received, when material is being found. In this way, finding process is done quickly.

CIRCULATION MODULE

It works through the machine which was reserved for only loan and returns processes in library or archive. For loan process, reader is being defined at the coding station. After that, documents, which will be borrowed, are read at this station. So that, loan process will be realized, exit from security door will be legalized. Also, documents which left from door are followed from computer. If loan process cannot be done or done wrong, alarm will be activated at the door. Return processes are like loan processes. Reader is defined at coding station and RFID tag/tags are activated. In this way, loan process is done. Also, documents, which entered from security door, will be followed from computer.

SECURITY MODULE

UHF RFID door located at exit of archive or library detects all documents entering and leaving from location and warns as written or visual. At the same time reporting is done.

PHOTOCOPY MODULE

Documents, which are copied daily, are read by hand terminal. In this way, required page number, which are matched with hand terminal, are entered and transferred to computer. It enables to keep track of which document, when and how many pages were copied by which reader. Also, if photocopy required again from same page, it enables faster photocopy process with new request. In this way, usage frequency of that material can be evaluated in time.

REPORTING MODULE

System was designed in a way that statistical data can be taken about various applications. Various reports about counting, wrong placement, finding, tagging, frequently used material and security can be taken thanks to improved filtration and searching mode. It enables to keep track of entry & exit of documents, user types (reader, personnel, visitor etc.) and movements at the door in specific date range. Also, daily, monthly, yearly reports about them can be taken. All information about movements at the security door can be gotten instantly. It enables to get matching data between the reader and material about status and usage frequency of documents.

ADVANTAGES OF THE SYSTEM

Time;
It will be faster to reach documents.

Labor Force;
One person, who uses the system, can do the work instead of many people. In this way, system will cover many people's function.

Speed;
You will find the required documents quickly. You will have a book/document detector.

Security;
Each book/document will have a unique ID. This ID will be protected with algorithm which will prevent unauthorised responses.

Efficiency;
Each step will be more functional and efficient under control of a strong system.

BENEFITS OF THE SYSTEM

- It enables to record simultaneously entry & exit of a couple of items.
- Information can be added directly to the item.
- It enables defining and theft prevention functions in a single process
- Everything can be labeled
- Scanning and defining will be faster.
- It enables organized book counting
- It enables secure entry and exit processes of documents.
- It is the solution of wrong placement.
- It finds the book quickly with sectional searching
- It enables to get detailed specific reports about usage, photocopy and entry & exit information of documents in a quick, secure and easy way.

ADVANTAGES OF THE SYSTEM | Time
Labor Force
Speed
Security
Efficiency

INTEGRATED Easy

STRONG Flexible

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