

Shouting Books



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Author	Abdul Ahad
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RFID technology is being used in library to automate the process of book handling, book issuing and inventory maintenance. Sorting and placing the books in right shelves has always been a tough task for the librarians. This case study will reveal the basic functionalities of RFID technology in order to build a system that will help the librarians to accomplish this task.

Steps 1 and 2 describe the installation and programming of RFID tags on books.

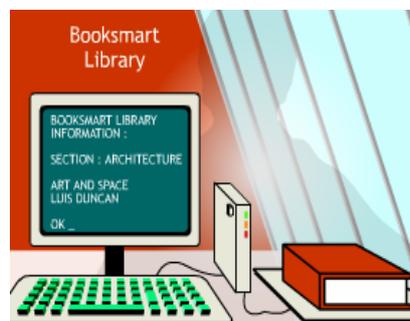


Step 1:

RFID tags is placed on each of the book, which will contain information like book name, author, publisher, publishing date etc.

Step 2:

A programming station will be equipped with a standard scanner, which reads the RFID tag and process this information. A software application will help in processing this all.



This application will help the librarian to map the books to their perspective shelves so that application knows which book belongs to which shelf *.

Before visualizing the shouting books idea, there are certain grounds needed to be built. One has to assume that each shelf in Mcluhan's Library is equipped with an RFID reader that will read all the books on the shelf and will update the database accordingly. Along this there will be an application program installed on Martina's computer that on each morning at 8:30 will fetch the records automatically from the database and will prepare a report on the basis of which books are there in which shelves. By comparing the latest books positions with an already stored combination, it would be able to produce a list of books that are misplaced by the students. It will also be able to specify the correct position of the book so that Martina can quickly correct the position of the misplaced books.

With such a system placements of the books at right place will no longer be a time consuming task.

System Requirements:

- RFID Readers
- RFID Tags
- MySql or any open source database
- A desktop application written in Visual Studio. Net
- Crystal report plug in for Visual Studio. Net in order to generate reports from database.

Image Sources:

<http://www.tagsys.net/index.php?module=tagsys&func=menu&m=7&sm=1>

* This step is needed to be performed only once, especially when the system is going to be implemented.