

Impact of RFID technology on Libraries

By

Sagar Kumbhar

Librarian

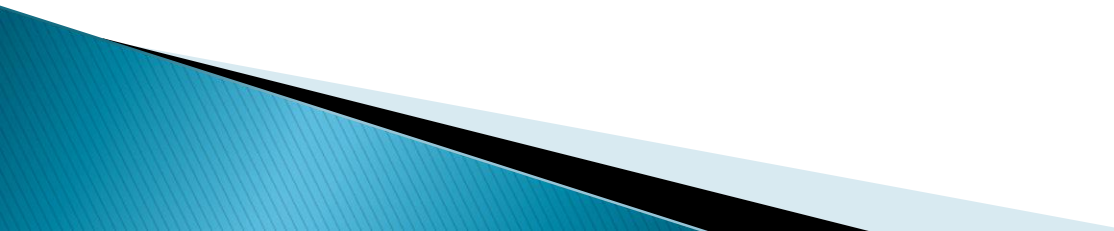
Gokhale Education Society, College of Arts Commerce and Science,
Shrivardhan.

Maharashtra

Introduction

- ❖ RFID (Radio Frequency Identification) is new technology but its use for library is one kind of revolution in library services, which is adopted by libraries for tracking of materials throughout the library as well as easily charging, discharging, and sorting out of reading materials.
- ❖ RFID plays a vital role in managing library collection and reduces the human efforts in work such as controlling the theft, to find misplaced reading material, inventory accuracy, stock verification procedures, security control, etc.
- ❖ The RFID technology is basically combination of microchip and radio signals, the microchip contain the data of individual object and we can identify it through the radio waves.
- ❖ The RFID tags have capability to storing and transmitting information
- ❖ It replaced both EM security strips and Barcodes in library application.

What is RFID?

- ❖ RFID is an automatic tracking of the objects or product through radio waves
 - ❖ The primary objective of RFID is to identify the objects and track them automatically while at the time of operation.
 - ❖ The tags are using for storing the data of objects and it can be retrieve through the radio waves.
 - ❖ The use of RFID for libraries at the beginning time was only for the security purpose but now the trend has been changed and libraries are become automated though the RFID.
- 

RFID Technology for libraries

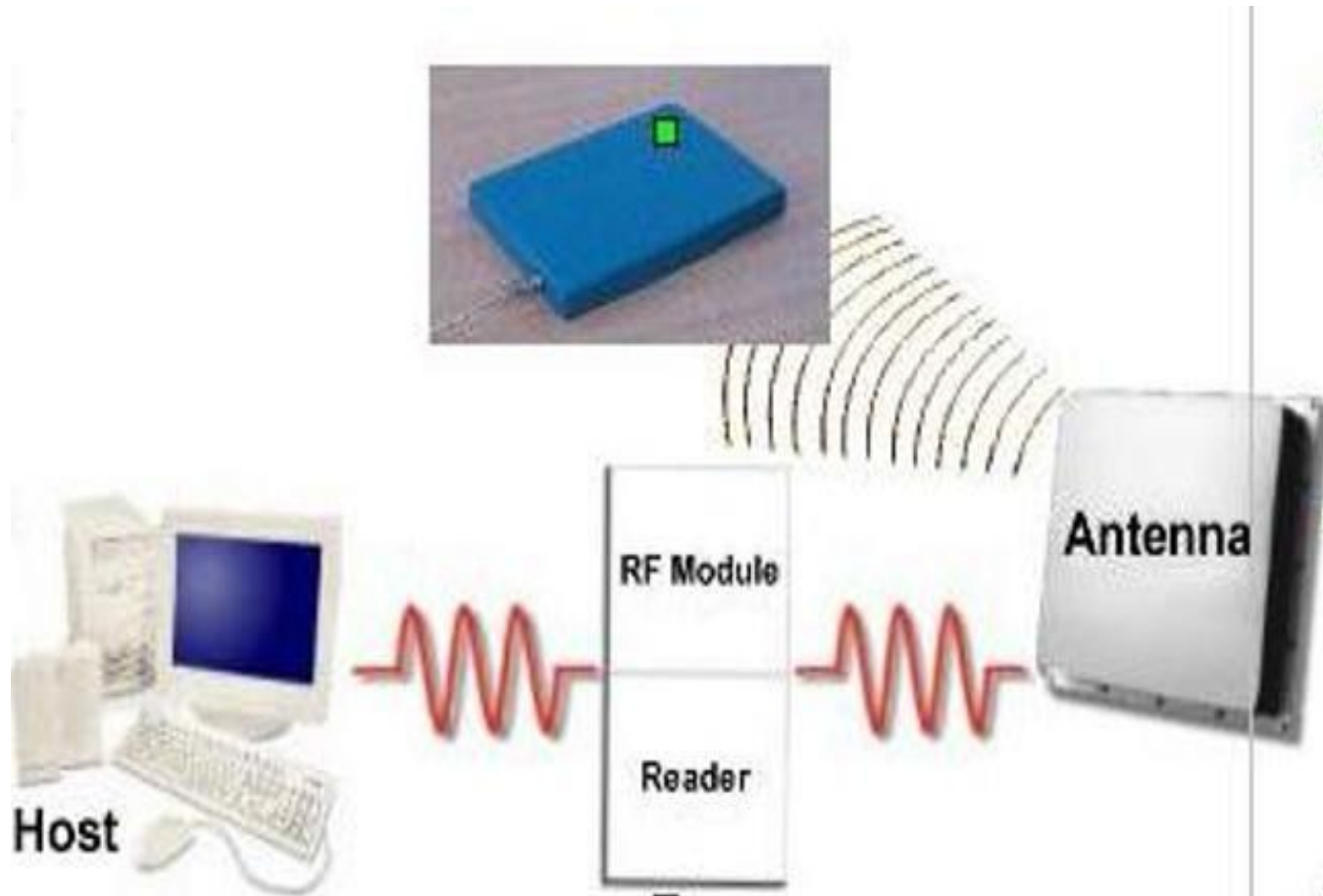
- ❖ RFID is a best solution of those academic libraries not only academic even it is continent way to all type of libraries and information centers to manage, secure and circulate their collection in effective.
- ❖ The Main purpose of RFID Technology is reducing theft of material but now days RFID got customized and it was moved beyond security to become tracking systems that combine security with more efficient tracking of material throughout the library, including easier and faster charge and discharge, inventory and material handling.
- ❖ RFID draw a ways to library staff to perform their activities such as check in, check out, sorting, stock management in effective as well as in less time.

Merits of RFID technology in Libraries

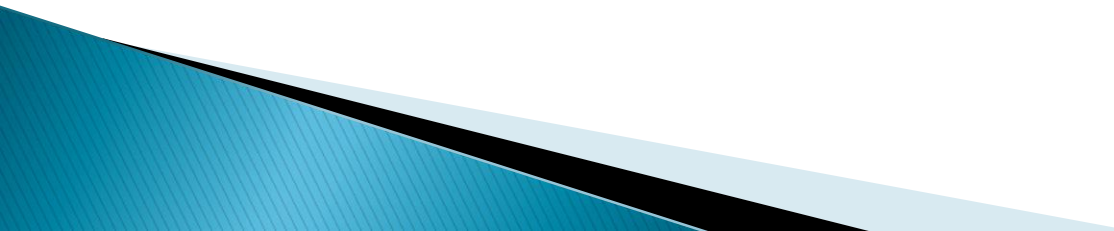
- ❖ **Speedy Circulation Transactions**
 - ❖ **Precision in Tracking**
 - ❖ **Easy self-charging/discharging**
 - ❖ **High-speed inventorying**
 - ❖ **Automated capture of materials**
 - ❖ **Better than other technologies**
- 

Components of RFID System

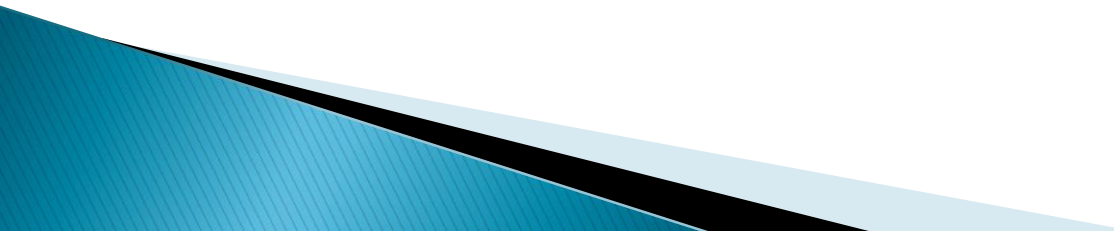
- ❖ **Tags**
 - ❖ **Readers**
 - ❖ **Computer Host**
 - ❖ **Application Software (ILS)**
 - ❖ **Antenna**
- 



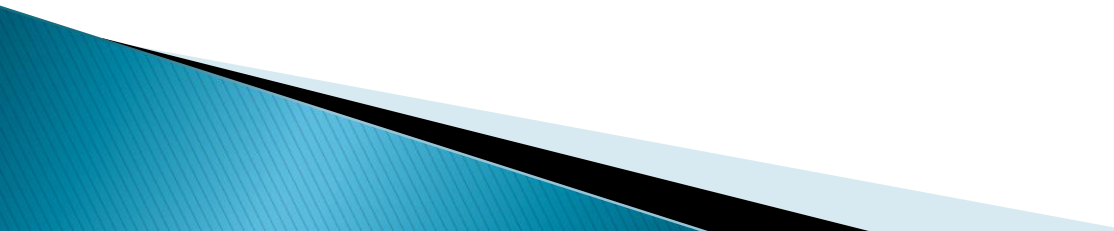
Impact on Libraries

- ❖ **Management of library material**
 - ❖ **Offered more services for users**
 - ❖ **Security**
 - ❖ **Flexibility**
 - ❖ **Time and efforts**
- 

Impact on Library Staff

- ❖ **Saving time in library operation**
 - ❖ **Convenient in managing library day to day work**
 - ❖ **Reduce repetitive work**
- 

Impact on Users

- ❖ **User can save their time in and efforts in standing in the queue for issue and return of the books**
 - ❖ **User can return their books anytime through drop box service**
 - ❖ **Intimate to the users before due date of books for returning of borrowed books**
 - ❖ **Self-service through RFID increase the privacy for users**
 - ❖ **User can find easily and quickly what they want.**
- 

Institutes in India Who are using RFID Technology for Library

- ❖ IIM,Shillong
- ❖ Anna Unuversity,Chennai
- ❖ BCL,Delhi
- ❖ IGCAR,Kalapakkam
- ❖ Bank of Baroda
- ❖ IMSC,Chennai
- ❖ IIM,Indore
- ❖ IIT,Delhi
- ❖ IIT,Roorkee

Cont..

- ❖ IIT,Chennai
 - ❖ IIT,Kharagpur
 - ❖ NASSDOC,New Delhi
 - ❖ NCL,Pune
 - ❖ NIT,Surat
 - ❖ Parliament Library,New Delhi
 - ❖ Punjab University,Chandigarh
 - ❖ University of Pune,Pune
 - ❖ IIM,Lucknow
 - ❖ NCBC (National Center for Biological science) Bangalore
 - ❖ IIT, Madras Tata memorial library,Indian Institute of Science,Bangalore
 - ❖ Biju Patnaik Central Library
 - ❖ N.I.T.,Rourkela
 - ❖ DayanandSagar College of Engineering, Bangalore
- 

Conclusion

Now libraries are going to move forward in providing access of their resources and using advanced technology for this purpose. The RFID is one of them and it has changed the whole face of library services and work flow of libraries. RFID system has reduced the human's interaction in library operation as well as reduces labor work and time of users in accessing resources of library. Now a days, the use of RFID system in Indian libraries has increased and it is also helpful to college libraries to adopt RFID technology for improve their services.

THANK YOU