

An Effective Visitor Management System Using M-OPAC in Library Automation: A Case Study of RCPIT Library Using LIBMAN Software

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ABSTRACT

Nowadays, every single organization has to receive and handle visitors regularly. Ex e.g. businesses, schools, colleges, hospitals and other organizations. Traditional visitor management methods like pen, paper, sheets or manual printing have become ineffective and unsafe in the contemporary working environment. A visitor management system (VMS) is a safer, more reliable, and efficient system that has arisen to curb the increasing security issues. A Visitor Management System refers to a procedure of monitoring all people entering any library. The LIB-MAN is a very user-friendly system that is highly integrated and allows full computerisation of all the in-house operations of any type of library. Its modules offer it such a facility. Check-in and check-out in the visitor management system of the library is very easy through the MOPAC app installation in a mobile device and a free QR Code reader. This presentation will address the need to have Visitor Management Systems in the modern world, its benefits and the means of selecting the one that fits your requirements. We will outline effective visitor management system with the help of MOPAC in LIBMAN software of Master-soft ERP solutions..

KEYWORDS: VMS, MOPAC, LIBMAN, and RCPIT.

INTRODUCTION

A visitor management system is the process of tracking everyone who enters your library, office or site. Each and every student or person visiting to the library must be tracked in Visitors Management system.[1]

Visitor Management System – Before the Web:

The typical visitor management system is the paper oriented, usually kept as register or file at the front counter or desk.[2] When a visitor arrives, they write down their name, sign with Incoming and outgoing time. At some point, these paper oriented systems get lost and a new paper or register is produced.

Visitor Management System – Today

To avoid this ridiculous work and to combat these issues, more and more people have started to look towards electronic visitor management systems as a means to be more efficient, compliance, security, projecting a positive corporate image & reporting.[4]

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Visitors Management System (VMS):

Visitors management system in library is also a changing day by day. In library, it has become more important for keeping records of visitors on daily basis. [10] Today, due to advanced technology it has become very easy to maintain the data of visitors management systems. Here we will discuss about visitors management system which is developed by LIBMAN software.[14] [12] They have started this facility in software module of circulation and QR code is developed for each and every institute. Users simply have to scan this QR code through mobile app and by scanning QR Code, Check-in and check-out is done. [11]

LIBMAN Software (Master-Soft ERP Sol.):

The LIB-MAN is an extremely unified, easy going and compatible system to fully computerize all the in-house operations of any size or kind of library. [3] The library management software is effective, user-friendly and conformable. Lib-Man has inbuilt multilingual fonts, Barcode and QR Code fonts.[13]

MOPAC (Mobile Online Public Access Catalogue):

MOPAC provides digital database with easy search options for e-books, journals, books, text files and Visitors Management system etc. which can be accessed within a matter of a few clicks.[7] M-OPAC is a book search APP that is a smart phone application that provides a low-cost cloud based application to all the libraries across the globe to share the data of books. The global library users are provided with free book search on an easy to use App. [6]

RCPIT Visitors Management System in MOPAC:

MOPAC provides with important function of visitors management system which is available by simply scanning QR Code that is available through LIBMAN software.[7] To present how it works, we have taken data of R. C. Patel Institute of Technology, Shirpur Dist. Dhule.[8]

Following image shows steps to install MOPAC and user login:

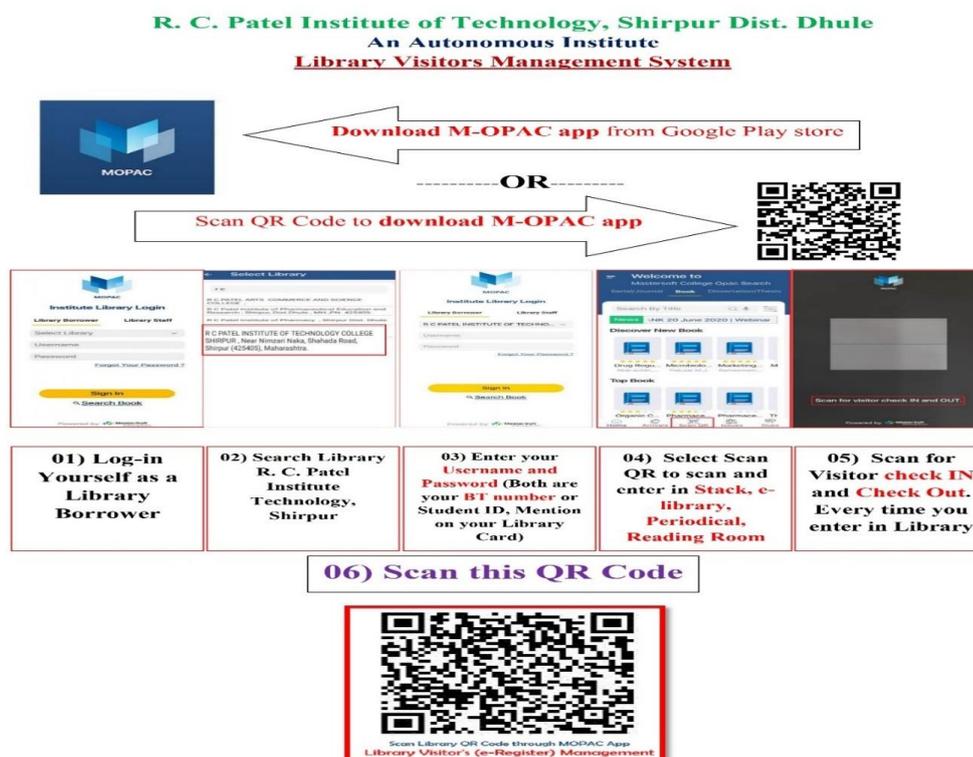


Figure 1. MOPAC Installation, Login and QR code scan

The studies of The Goals:

The study aims to understand the role and effectiveness of LIBMAN library management software implemented at R. C. Patel Institute of Technology (RCPIT). It focuses on examining how LIBMAN supports library automation, improves circulation and cataloguing processes, provides M-OPAC access, and enhances visitor and user management. The study also highlights how the software helps in improving service efficiency, accuracy of records, and overall user satisfaction in the library.

The Study of Scope and Methodology:

The scope of this study encompasses the automated library environment at R. C. Patel Institute of Technology (RCPIT), focusing on the Central Library’s collection, services, and use of LIBMAN (MasterSoft) library management software for automation. The library’s holdings include both print and digital resources, M-OPAC access, and modern services such as visitor management and digital resource access, which serve a diverse academic user base including students. Service usage, as well as qualitative aspects like user interaction with the automated system, efficiency of workflows, and user satisfaction.

DATA ANALYSIS:

RCPIT library is currently using this VMS facility through LIBMAN software. For data analysis usage report from January 2025 to September 2025 is generated in the LIBMAN software. Following tables shows Month-Wise, Department-Wise and Class-Wise detail analysis of used VMS facility by student in the library.

Table 1. January to September 2025 Month-Wise Visitors Report

Sr. No.	MONTH	Total Visitors	No. Of Check In	No. Of Check Out
1	January-25	4282	1755	2527
2	February-25	2711	1335	1376
3	March-25	3197	1798	1399
4	April-25	3187	1900	1287
5	May-25	4262	2566	1696
6	June-25	2901	1737	1164
7	July-25	2852	1914	938
8	August-25	1778	1291	487
9	September-25	4911	2353	2558
Total		30081	16649	13432



Figure 2. Month-Wise visitors Report

Table 1 and Figure 2 shows Month-Wise Visitors count of library. In the month of September-2025, highest count i.e. 4911 students visited to the library, again in the month of January 2025, second highest count i.e. 4282 students visited to the library.

Table 2. September 2025 Department-Wise Visitors Report

Sr. No.	Month	Department	Total
1	Sep-25	AIML Engineering	348
2	Sep-25	Civil Engineering	457
3	Sep-25	Computer Engineering	1304
4	Sep-25	Data Science Engineering	397
5	Sep-25	Electrical Engineering	383
6	Sep-25	E & T C Engineering	1200
7	Sep-25	Mechanical Engineering	762
8	Sep-25	Master of Computer Application (MCA)	60
		Total	4911



Figure 3. Dept.-Wise visitors Report

Table 2 and Figure 3 shows Department-Wise Visitors count of library in the month of September 2025. In the month of September-2025, Computer Engineering Department visitors count is the highest count i.e. 1304 students visited to the library. Again in the month of January 2025, E & TC Engineering dept.'s visitors count is the second highest count i.e. 1200 student visited to the library.

Table 3. September 2025 Class-Wise Visitors Report

Sr. No.	Month	Year	Total	Percentage
1	Sep-25	First Year	3267	66%
2	Sep-25	Second Year	921	19%
3	Sep-25	Third Year	496	10%
4	Sep-25	Final Year	227	5%
Total			4911	100%



Figure 4. Class-Wise Visitors Report

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Table 3 and Figure 4 shows Class-Wise Visitors count of library in the month of September 2025. In the month of September-2025, 66% of First year students of all engineering dept. visited to the library, 19% of Second year students of all engineering dept. visited to the library.

ADVANTAGES OF VMS:

- 1. Enhanced Security:** This technology also helps to prevent unauthorized access by ensuring visitors to enter within the library building.
- 2. Improving Visitor Experience:** Digital VMS would also make visitors feel welcome and appreciated as soon as they enter the library.
- 3. Time-Saving and Efficiency:** Digital VMS saves time of both visitors and working personnel at specific section of library. It minimizes the waiting time and guarantees visitor smooth check-in process.
- 4. Regulation Adherence:** VMS offers an online document of all visitor activities and professionally generated reports that can be audited and fulfilled the standards of compliance, and automates the vast majority of compliance management. These electronic records save the use of the outdated paper logbooks that can jeopardize privacy and simplify any form of non-compliance violations.
- 5. Professional Image:** Digital system will save them the process of filling out data or involving someone to manually write the information, with a QR system, the student will only have to scan the QR code and the information will be filled in electronically. The contemporary and simplified procedure creates an impression of being professional and organized.
- 6. Optimistic Digital Input:** under such an arrangement, the digital VMS assist in the upkeep of the work that aids you in the upkeep of the data and records of the visitors appropriately. These are but a few benefits of visitor management software that makes people adopt the use of visitor management software to better their work.

DISADVANTAGES OF DIGITAL VMS:

The cons of this software are so numerous as well. These are some of them, which are written below:

- 1. Electricity Availability:** It requires electricity to operate any type of software. Where shortage of electricity is experienced, people are not able to use this software since electricity can be cut at any time.
- 2. Cost of Software:** There are numerous institution that experience financial issues in order to buy the software. To operate this software one requires any sort of electronic device hence purchasing of this software is expensive.
- 3. Internet Connectivity:** Some times, students face problem regarding internet issues and server problems. So it is not possible to make entry in digital VMS.
- 4. Mobile Problems:** When students face problems regarding Mobile functions Such as Camera issues, Display of Screen issues, their entry is done through working staff of library in digital VMS.

The strength and weakness of digital visitor management software system are these.

CONCLUSION

Now a days, Libraries have realized the importance of introducing technological solutions to enhance their visitor experience as well as security. Properly utilizing a visitor management system can help in doing both effectively. Digital VMS in Master-Soft LIBMAN Software provides visitors management software i.e. designed to fulfil all your needs about to better security and an elevated tracking of visitors. Digital visitor management system is vital for providing advanced security measures and a streamlined check-in process for visitors. In conclusion, digital or electronic visitor management solutions can simplify tasks, ensure the smooth processing of visitors upon arrival, easy to use and easy to make reports.

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