

LIBRARY MANAGEMENT SYSTEM FOR OUR IIIT SRIKAKULAM



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ABSTRACT :

- ▶ The functions and resources of a library are managed by the library management system, a piece of software. The librarian may effortlessly complete a variety of tasks, including adding, modifying, and deleting books, searching for books, maintaining borrower information, and generating reports. The system is designed to provide library staff and users with prompt and accurate information while ensuring efficient and effective management of the library's resources. The system uses a single database to keep track of all information about books, borrowers, and library transactions in order to maintain data accuracy and consistency. Additionally, the library management system offers security capabilities to guarantee the protection of the library's resources and prevent unauthorized access. With the aid of this system, librarians can efficiently run the library and give customers a better experience.

PROBLEM STATEMENT :

It takes a lot of time, is difficult, and is prone to mistakes to manually manage library resources and services. The management of different duties, including book circulation, and borrower information management, presents challenges for librarians. It is challenging to keep track of the status of books, their availability, and borrower information in the absence of a centralized database system. Additionally, manually creating reports takes time and is prone to mistakes.

A contemporary library management system is therefore required in order to automate library activities and improve the administration of library resources. For librarians to do operations including adding, modifying, and deleting books, searching for books, managing borrower information, and generating reports, the system should offer an intuitive user interface. The system should also give patrons and library personnel up-to-date, factual information.

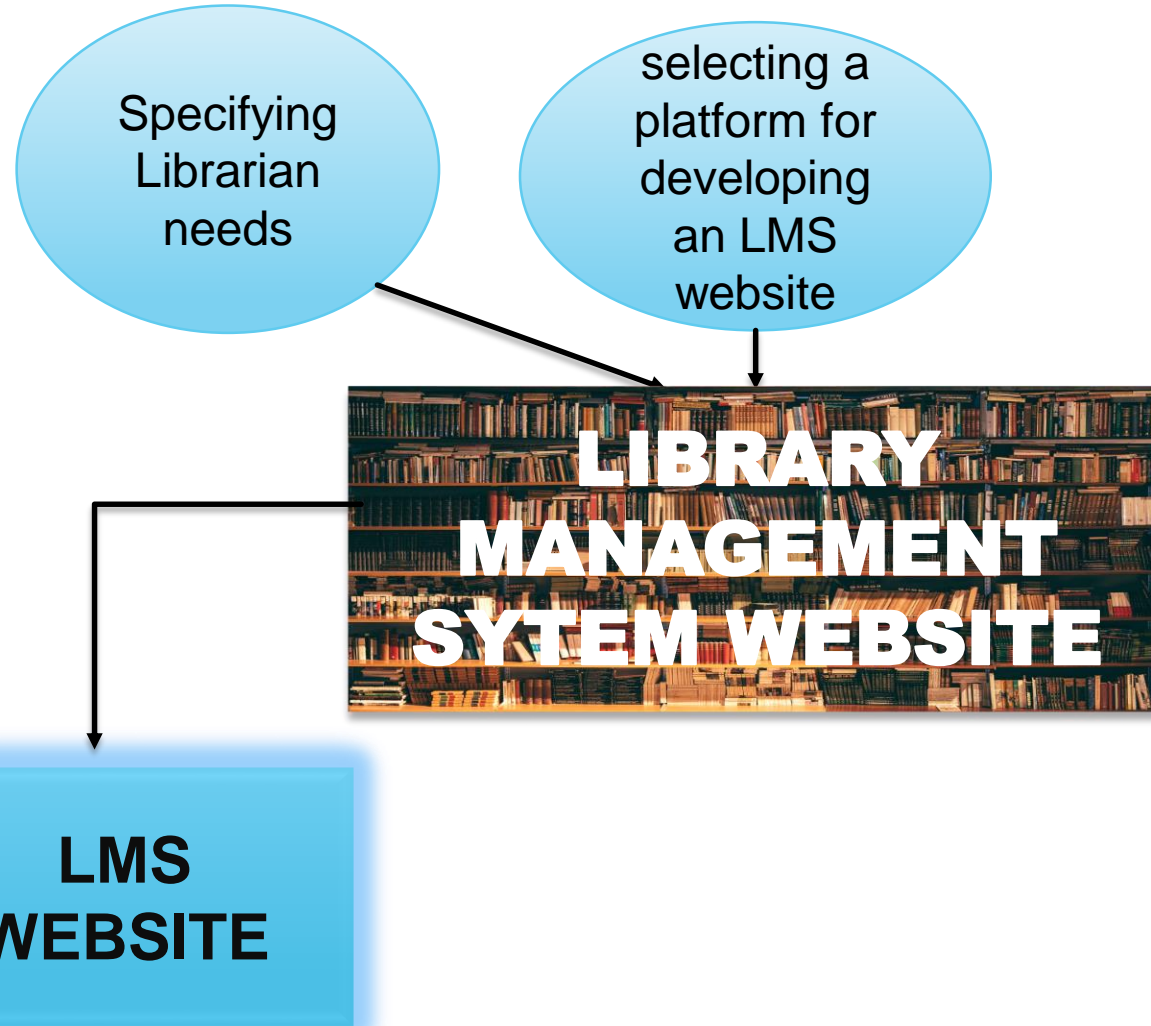
In order to guard against unauthorized access and guarantee the security of library materials, the library management system should also be secure. The system must be scalable and adaptable in order to satisfy the unique requirements of various libraries. By implementing a library management system, library operations will become more productive, save time and money, and improve the overall user experience.

INTRODUCTION:

- ▶ A library management system is a type of software that facilitates the management of collections in educational and public libraries as well as the streamlining of processes and improvement of user experience.
- ▶ Explanation of the importance of LMS: "Manual library management can be time-consuming and ineffective, resulting in mistakes and lower productivity. Many library operations, including cataloguing, circulation, acquisitions, improving their efficiency, accuracy, and scalability. As a result, librarians may concentrate on delivering excellent services to clients and developing their collections."

OUR STRATEGIC PLAN:

1. Creating a library management system (LMS) website:



2.Connecting an LMS (Library Management System) to the main university website:

← → ↻ 🏠 rguiktsklm.ac.in [🔗](#) [★](#) [📄](#) [🔍](#)

RGUKT-AP RGUKT-NUZ RGUKT-RKV RGUKT-ONG

 **Rajiv Gandhi University of Knowledge Technologies - Andhra Pradesh**
Srikakulam Campus
రాజీవ్ గాంధీ వైజ్ఞానిక సాంకేతిక విశ్వవిద్యాలయం - ఆంధ్రప్రదేశ్, శ్రీకాకుళం క్యాంపస్
Catering to the Educational Needs of Gifted Rural Youth of Andhra Pradesh
(Established by the Govt. of Andhra Pradesh and recognized as per Section 2(f) of UGC Act, 1956) 

🏠 ADMINISTRATION ACADEMICS ADMISSIONS EXAM CELL PLACEMENT CELL CLUBS FEEDBACK FEE PAYMENTS CAREERS TENDERS

Overview
Campus Life

**LIBRARY
MANGEMENT
SYSTEM
SUBDOMAIN**


RGUKT-Srikakulam

Announcements

MAY 03	2021 Batch PUC-1 Sem-1 &2 Elementary Biology Results
APRIL 01	2020 Batch Engineering 1st year Sem-1 Regular Results February- 2023
MAY 29	2018 Batch E-3 Sem-1 Regular Results [A.Y 2022-23]

    [↑](#)

There are several interfaces in the library management system:


► LOGIN PAGE:(Sign in with google)

Email

Password

Log In

OR

 Sign in with Google

FEAUTURES OF LMS:

① Available Books

S.no	Title	Author	Copies	Status	Action
1	A	X	10	Available	
2	B	Y	20	Available	
3	C	Z	10	"	
4	D	A	20	"	
5	E	B	10	"	
6	F	C	20	"	

→ Issue Request When User Clicks Issue Requests in Admin page

③ Student Requested Books

Book Name	Author	Student Name	Student Branch	Actions
A	A	A	CSE	<input checked="" type="checkbox"/> <input type="checkbox"/>
B	B	B	CSE	<input checked="" type="checkbox"/> <input type="checkbox"/>
C	C	C	CSE	<input checked="" type="checkbox"/> <input type="checkbox"/>
D	D	D	PCE	<input checked="" type="checkbox"/> <input type="checkbox"/>
E	E	E	CSE	<input checked="" type="checkbox"/> <input type="checkbox"/>

Accept Reject

→ Issued Book

④ Issued Book

Book	Author	Name	Branch	ID	RD	Copies	Action
A	A	A	CSE	2021-03-03	2021-03-04	150	Class
B	B	B	"	"	"	15	"
C	C	C	ECE	"	"	15	"
D	D	D	CSE	"	"	"	"
E	E	E	"	"	"	"	"
F	F	F	E	"	"	"	"

ID = Issued ID
RD = Requested ID

② Add Book

Add a New Book

Book Title

Author Name

Publisher

Year

Number of Copies

Price

Code

Add Book

⑤ MANAGE STUDENT

MANAGE STUDENT

S.no	Name	ID No	Branch	Joining	Action
1	A	S120614	CSE	2018	<input type="button" value="Remove"/>
2	B	S120510	CSE	2018	<input type="button" value="Remove"/>
3	C	S180213	CSE	2018	<input type="button" value="Remove"/>

⑥ Book Recommendation

Recommend by Student

S.no	Book Name	Author	Requested Student	Student Branch	Actions
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ADMIN PAGE:

④ Admin page.

1
2
3
4

Hello Admin

Home

Messages

All Books

Add Book

Manage Student

Issue Request

Recommendation

All Issued Books

Email:

ph no:

Enrollment No:

Name

STUDENT PAGE:

Student page

1
2
3

Hello User 1

Home

Messages

All Books

Recommendation

Currently Issued Books

Email id:

ph no:

Id no:

Branch:

Admission year:

Name

2 → Recommendation a Book

Recommendation a Book

title

Author

publisher

Sent Request

3 → Currently Issued Books

My Issued Book

Book	Author	Publisher	Actions
A	B	C	Return Book

BOOK INFORMATION:

If we click Details
pop up Box will appear

Book Name: XYZ

Author: XYZ

Publisher: XYZ

Originally published: XYZ

Issued date: XYZ

Return date: XYZ

Fine: 0

Close

DIFFERENCES BETWEEN EXISTED AND PROPOSED SYSTEM:

FEATURES:	▶ EXISTED SYSTEM	▶ PROPOSED SYSTEM
Technology Stack:	Existing library management systems depend on Relational Database Management Systems such as MySQL, Oracle, and others.	MERN stack could make use of a more modern technological stack.
Scalability:	In comparison to the proposed system, the current system is not more scalable.	MERN stack is known for its scalability, which means it may be better able to handle large amounts of traffic and data.
User Interface:	It is made with outdated front-end technologies, making it less dynamic and responsive.	It may have a more responsive, perceptive, and engaged user because it is developed with the MERN stack.
Data Management:	It uses an RDBMS, which limits performance and flexibility when managing huge amounts of data.	It makes use of MongoDB, a NoSQL database with greater performance and flexibility for managing massive amounts of data.
Customizability :	Customising and expanding it further might not be much simpler.	It might be simpler to modify and add to it.

BENEFITS OF LMS:

- ▶ **Scalability:** The MERN stack makes it possible to create web applications that can scale to support many users and transactions.
- ▶ **Flexibility:** Using the MERN stack, you can build a versatile and adaptable LMS that can change as your needs, functions, and requirements do.
- ▶ **Real-time updates:** MERN Stack's real-time feature makes it simpler to update the system with new books, users, and other information. This enables users to instantly get the most recent information.
- ▶ **Speed and performance:** The MERN stack is renowned for its great performance, speed, and responsiveness, making it the perfect option for developing a library management system that calls for rapid data retrieval, processing, and presentation.
- ▶ **Easy integration:** The MERN stack makes it simple to integrate LMS functionality-enhancing third-party tools and services, such as payment gateways, email providers, and chat platforms.
- ▶ **Cross-platform compatibility:** The MERN stack makes it possible to create LMS that work on a variety of computers, tablets, and mobile phones.
- ▶ **Security:** The MERN stack has strong security features, such as encrypted data transmission, safe data storage, and user authentication, which can shield the LMS from intrusions and data breaches.

Overall, the MERN stack can provide a number of advantages for developing an effective, adaptable, and user-friendly library management system, which can improve the user experience and streamline the library administration procedure.

CONCLUSION:

- ▶ In conclusion, there are a number of advantages to using the MERN stack for creating a library management system (LMS), including scalability, flexibility, real-time updates, high performance, simple integration, cross-platform compatibility, and powerful security features. An LMS designed with the MERN stack is far more effective, efficient, and user-friendly than existed systems. To sum up, building an LMS utilizing the MERN stack is an innovative and beneficial way for libraries to successfully manage their operations, resources, and services in the digital age.



Thank
you