

TITLE OF THE PROJECT:

LIBRARY MANAGEMENT SYSTEM

❖Introduction:

Library management system is a computerized system which helps user to manage the library daily activity in electronic format. It reduces the risk of paper work such as file lost, file damage, and time consuming. It can help user to manage the transaction or record more effectively and time saving.

❖ Problem Definition:

The problem occurred before having computerized system includes:

- **File lost:**

When computerized system is not implemented file is always lost because of human environment. Sometimes due to some human error there may be a loss of records.

- **File damaged:**

When a computerized system is not their file is always lost due to some accident like spilling of water by some member on file accidentally.

Besides some natural disaster like floods or fires may also damage the files.

- **Difficult to search record:**

When there is no computerized system there is always a difficulty in searching of records if the records are large in number.

- **Space consuming:**

After the number of records become large the space for physical storage of file and records also increases if no computerized system is implemented.

- **Cost consuming:**

As there is no computerized system the to add each record paper will be needed which will increase the cost for the management of library.

❖ **Primary reasons for choosing the topic:**

A college Library management is a project that manages and stores books information electronically according to students need. The system helps both student and library manager to keep a constant track of all the books available in the library.

It removes manual process of issuing books and simplifies the way of issuing book to save time and effort.

❖ Main Objective of the project:

Improvement in control and performance. The system is developed to cope up with the current issues and problems of library. The system can add user, validate user and is also bug free.

- **Save cost:**

After computerized system is implemented less human force will be required to maintain the library thus reducing the overall cost.

- **Save time:**

Librarian is able to search record by using few clicks of mouse and few search keywords thus saving his valuable time.

- **Option of online Notice board:**

Librarian will be able to provide a detailed description of workshops going in the college as well as in nearby colleges

- **Lecture Notes:**

Teacher have a facility to upload lectures notes in a pdf file having size not more than 10mb.

❖Scope of the project:

- The system generates types of information that can be used for various purposes.
- Create distinct product users based on their roles and permissions.
- Authenticate users at their login.
- Facility to reserve books that are available.
- A status page for all users to view books reserved by them.
- Facility to cancel the reservation for a book made earlier.
- A status page for all users to view books borrowed by them, their individual due dates and their individual penalties if any.
- An interface to view and edit the own profile.
- Provide method for adjusting account settings such as passwords.
- Mechanism to reset the password in case user forgets it.
- Providing interface to add or delete books to staffs.

❖ **Hardware specifications:**

- **Operating System:** Windows 10
- **Hard Disk:** 10GB
- **Ram:** 4GB
- **Processor:** Ryzen3 / Intel core i3

❖ **Software specifications:**

- JSP
- CSS
- JAVA
- ORACLE DATABASE
- JDBC

❖ Working Methodology:

➤ DFD:

The DFD (Data Flow Diagram) is a simple graphical formalization, for **library management system** describes the overall flow of data on the project. It is used to document the transformation of data (input/output) for project development.

➤ LEVEL 0 DFD:



- The **importance of dfd for library management system** is to show the developers the actual happenings in the system.
- The **library management system** is an extensive database; the **entity-relationship diagram** helps to show the relations between different entities and attributes. This helps in **streaming** the things that are required for a particular library management system.

Number of Entities-

- **TBLBOOKS**
- **TBLSTUDENT**
- **TBLAUTHORS**
- **Admin**
- **TBLCATAGORY**
- **TBLISSUEBOOKS DETAILS**

❖ Table Schemas

- **Books** (ID numeric (10), BookName char (40), AuthorID numeric (10), CatID numeric (10), IssueNumber numeric (10), BookPrice numeric (10), RegDate numeric (10), UpdationDate numeric (10))
- **Students** (ID numeric (10), StudentID numeric (10), FullName char (30), Email ID char (30), MobileNumber numeric (10), Password text (10), Status numeric (10), RegDate numeric (10), UpdationDate text (10))
- **Author** (ID numeric (10), AuthorName char (10), CreationDate text (10), Updating Date text (10))
- **Admin** (ID numeric (10), FullName char (30), AdminMail text (20), UserName char (30), Password text (10), UpdationDate text (10))
- **Category** (ID numeric (10), CategoryName char (30), Status numeric (10), CreationDate text (10), UpdationDate text (10))
- **IssueBook Details** (ID numeric (10), BookID numeric (10), Student ID numeric (10), IssueDate text (10), ReturnDate text (10), ReturnStatus text (10), Fine numeric (10))

Attributes of each entity

ADMIN
ID
FULLNAME
ADMINEMAIL
USERNAME
PASSWORD
UPDATIONDATE

TBLEISSUEDBOOKDETAILS
ID
BOOKID
STUDENTID
ISSUESDATE
RETURNDATE
RETURNSTATUS
FINE

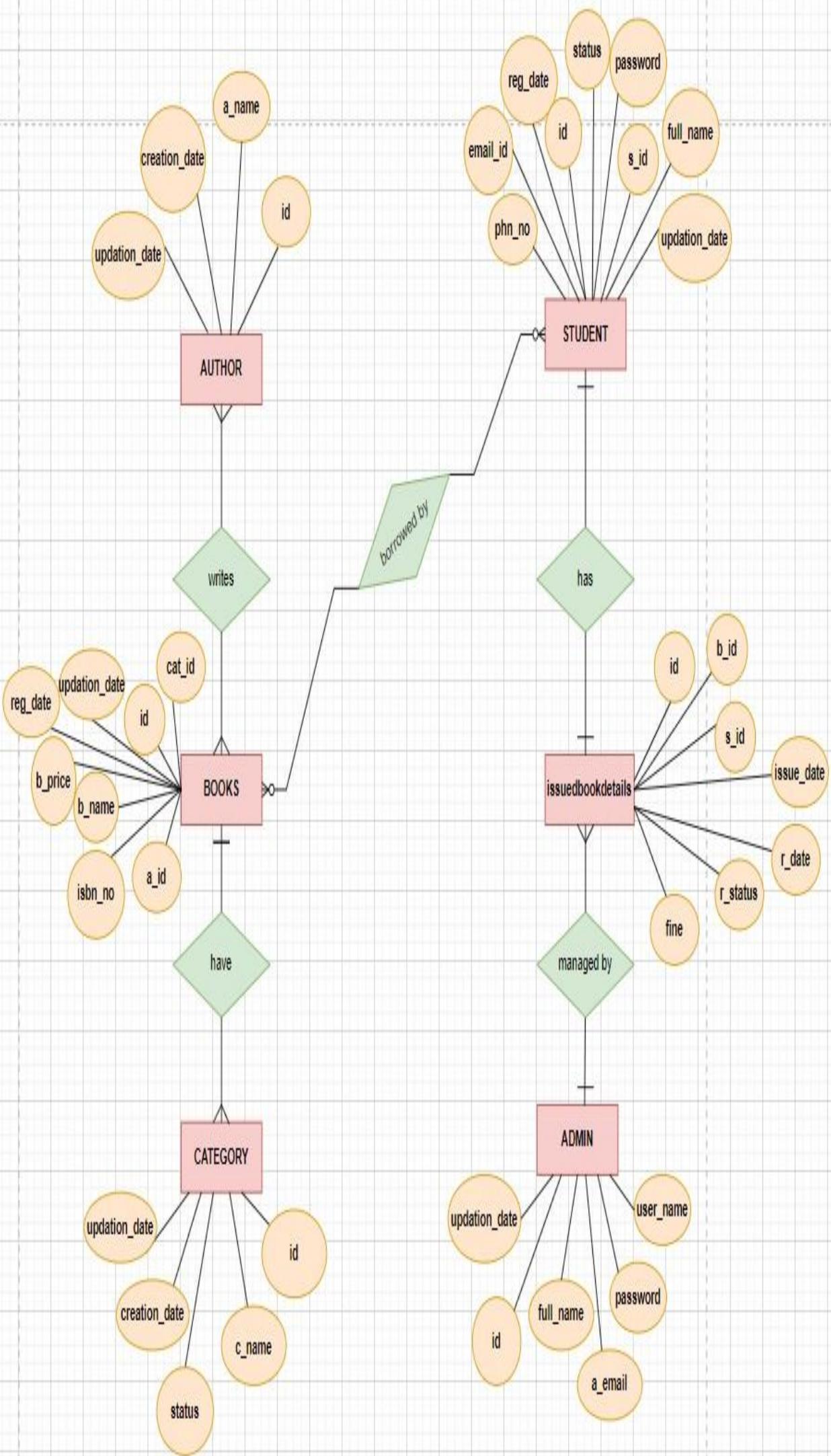
TBLAUTHORS
ID
AUTHORNAME
CREATIONDATE
UPDATIONDATE

Attributes Of Each Entity

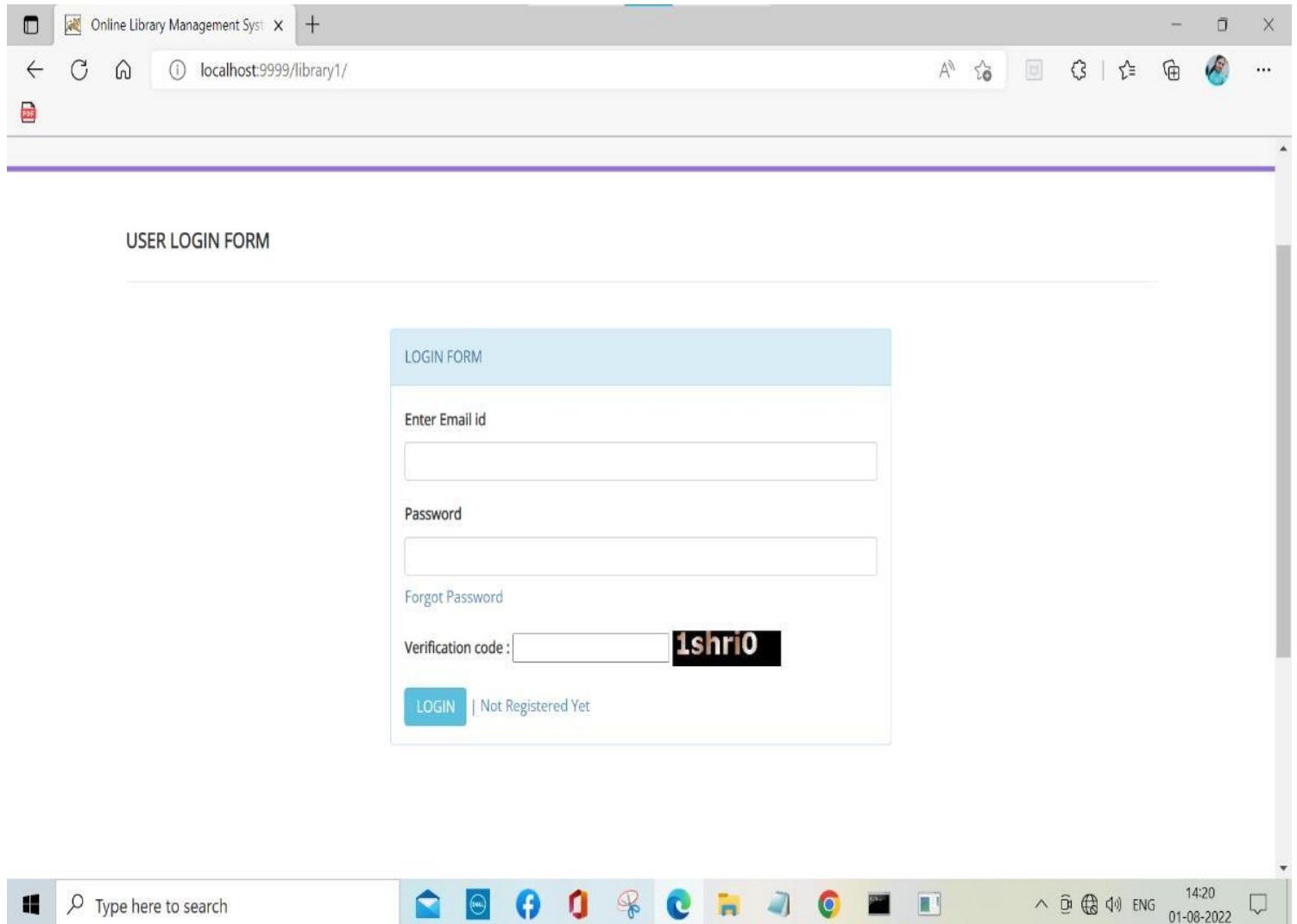
TBLSTUDENTS
ID
STUDENTID
FULLNAME
EMAILID
MOBILENUMBER
PASSWORD
STATUS
REGDATE
UPDATIONDATE

TBLBOOKS
ID
BOOKNAME
CATID
AUTHORID
ISBNNUMBER
BOOKPRICE
REGDATE
UPDATIONDATE

TBLCATEGORY
ID
CATEGORYNAME
STATUS
CREATIONDATE
UPDATIONDATE



User login Form:



Admin Login Form:

The screenshot shows a Microsoft Edge browser window displaying an 'ADMIN LOGIN FORM'. The URL in the address bar is 'localhost:9999/library1/adminlogin.jsp'. The page contains a 'LOGIN FORM' section with fields for 'Enter Username' and 'Password', and a 'Verification code' field containing 'hryilw'. A 'LOGIN' button is at the bottom. The browser's taskbar at the bottom includes a search bar, pinned icons for Mail, Dell, Facebook, OneDrive, and others, and system status indicators.

ADMIN LOGIN FORM

LOGIN FORM

Enter Username

Password

Verification code : hryilw

LOGIN

Type here to search

14:25 01-08-2022

User Sign Up

The screenshot shows a Microsoft Edge browser window with the title bar "Online Library Management Syst" and the address bar "localhost:9999/library1/signup.jsp". The main content area displays a "USER SIGNUP" page with a "SINGUP FORM" header. The form contains fields for "Enter Full Name", "Mobile Number:", "Enter Email", "Enter Password", "Confirm Password", and a "Verification code:" field containing "vdjqfm". A red "Register Now" button is at the bottom left. The taskbar at the bottom includes icons for Mail, Dell, Facebook, OneDrive, Edge, File Explorer, Task View, Google Chrome, and File Explorer, along with a search bar and system status indicators.

USER SIGNUP

SINGUP FORM

Enter Full Name

Mobile Number :

Enter Email

Enter Password

Confirm Password

Verification code : vdjqfm

Register Now

Type here to search

14:25
01-08-2022

User Dashboard

The screenshot shows a Microsoft Edge browser window with the following details:

- Title Bar:** Online Library Management Syst... (partially visible) - localhost:9999/library1/dashboard.jsp
- Address Bar:** localhost:9999/library1/dashboard.jsp
- Toolbar:** Back, Forward, Stop, Refresh, Home, Favorites, Search, and other standard browser icons.
- Content Area:**
 - Header:** Library Management System (with a bookshelf icon) and LOG ME OUT button.
 - Navigation:** DASHBOARD, ACCOUNT ▾, ISSUED BOOKS.
 - Section:** USER DASHBOARD
 - Widgets:**
 - Icon: Three horizontal bars (blue) - Value: 3 - Label: Book Issued
 - Icon: Recycle symbol (brown) - Value: 1 - Label: Books Not Returned Yet
 - Bottom Bar:** Type here to search (with a magnifying glass icon), pinned application icons (Email, Dell, Facebook, OneDrive, File Explorer, Microsoft Edge, Google Chrome, Task View, File Explorer), and system status (14:27, ENG, 01-08-2022).

Manage Issue Book

The screenshot shows a web browser window titled "Online Library Management Syst". The address bar displays "localhost:9999/library1/issued-books.jsp". The main content area is titled "Library Management System" with a bookshelf icon. It features a navigation bar with "LOG ME OUT", "DASHBOARD", "ACCOUNT", and "ISSUED BOOKS". Below this is a section titled "MANAGE ISSUED BOOKS" with a table titled "Issued Books". The table has columns for "#", "Book Name", "ISBN", "Issued Date", "Return Date", and "Fine in(USD)". It contains three entries:

#	Book Name	ISBN	Issued Date	Return Date	Fine in(USD)
1	Physics	1111	7-aug-2021	5-aug-2021	2
2	Physics	1111	7-aug-2021	Not Return Yet	null
3	PHP And MySql programming	222333	10-aug-2021	5-Oct-2021	6

At the bottom, it says "Showing 1 to 3 of 3 entries" with buttons for "Previous", "1", and "Next". The browser's taskbar at the bottom shows the URL "localhost:9999/library1/issued-books.jsp#".

Admin Dashboard

The screenshot shows a Microsoft Edge browser window displaying the Admin Dashboard of the Online Library Management System. The title bar reads "Online Library Management System". The address bar shows the URL "localhost:9999/library1/admin/dashboard.jsp". The dashboard header features a bookshelf icon and the text "Library Management System". On the right is a red "LOG ME OUT" button. Below the header is a navigation menu with links: DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, and CHANGE PASSWORD. The main content area is titled "ADMIN DASHBOARD" and contains six data cards:

Icon	Value	Description
Books icon	3	Books Listed
Equal bars icon	6	Times Book Issued
Recycling symbol icon	2	Times Books Returned
User group icon	6	Registered Users
User profile icon	7	(No description provided)
Document with water drop icon	6	(No description provided)

At the bottom, there is a taskbar with icons for Mail, Task View, Facebook, OneDrive, File Explorer, Edge, Google Chrome, File Manager, and Task Manager. A search bar says "Type here to search". The system status bar at the bottom right shows "14:28", "01-08-2022", and "ENG".

Manage Register Student

The screenshot shows a Microsoft Edge browser window with the title bar "Online Library Management Syst" and the address bar "localhost:9999/library1/admin/reg-students.jsp". The page content includes:

- Library Management System** logo and **LOG ME OUT** button.
- NAVIGATION MENU:** DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, CHANGE PASSWORD.
- SECTION TITLE:** MANAGE REG STUDENTS.
- Table:** Reg Students

#	Student ID	Student Name	Email id	Mobile Number	Reg Date	Status	Action
1	SID005	John Roberts	john@yahoo.com	8569710025	5-aug-2021	Active	Inactive
2	SID011	Clide Louie	CLIDE@gmail.com	4672423754	5-aug-2021	Active	Inactive
3	SID013	ashish mishra	ashish@gmail.com	9874523656	22-Oct-2021	Active	Inactive
4	SID002	Andrew Braza	andrew1@gmail.com	9865472554	5-aug-2021	Active	Inactive

- Bottom Taskbar:** Includes a search bar "Type here to search", pinned icons for Mail, Dell, Facebook, Microsoft Office, Brainly, Microsoft Edge, File Explorer, Google Chrome, Task View, and File Explorer, and system status indicators for battery, signal, and date/time (14:29, 01-08-2022).

Manage Issue Book

Online Library Management Syst x +

localhost:9999/library1/admin/manage-issued-books.jsp

MANAGE ISSUED BOOK

Issued Books

#	Student Name	Book Name	ISBN	Issued Date	Return Date	Action
1	John Roberts	let us c	2121	9-Oct-2021	Not Return Yet	<input checked="" type="button"/> Edit
2	Clide Louie	Physics	1111	8-aug-2021	Not Return Yet	<input checked="" type="button"/> Edit
3	Andrew Braza	Physics	1111	7-aug-2021	5-aug-2021	<input checked="" type="button"/> Edit
4	Andrew Braza	Physics	1111	7-aug-2021	Not Return Yet	<input checked="" type="button"/> Edit
5	Andrew Braza	PHP And MySql programming	222333	10-aug-2021	5-Oct-2021	<input checked="" type="button"/> Edit

Showing 1 to 5 of 5 entries

Previous 1 Next

Type here to search

14:30 01-08-2022 ENG

❖ Limitations

- The data stored is prone to cyber hacks. Opting for a reliable online system eliminates the risk
- Costly and Expensive
- Complicated to operate
- Online Systems require high-speed internet connectivity
- Risk of computer virus
- The automation feature is not available in offline/ open-source systems thus, requires manual action to perform operations.
- Unlike online systems that utilize cloud computing, Open-source systems store data on a computer hard drive. This increases the risk of data loss.

❖ **TESTING:**

The test cases for library Management System is an application that explains the test cases for library management system. Software testing is a critical part that is involved in the overall development of the application.

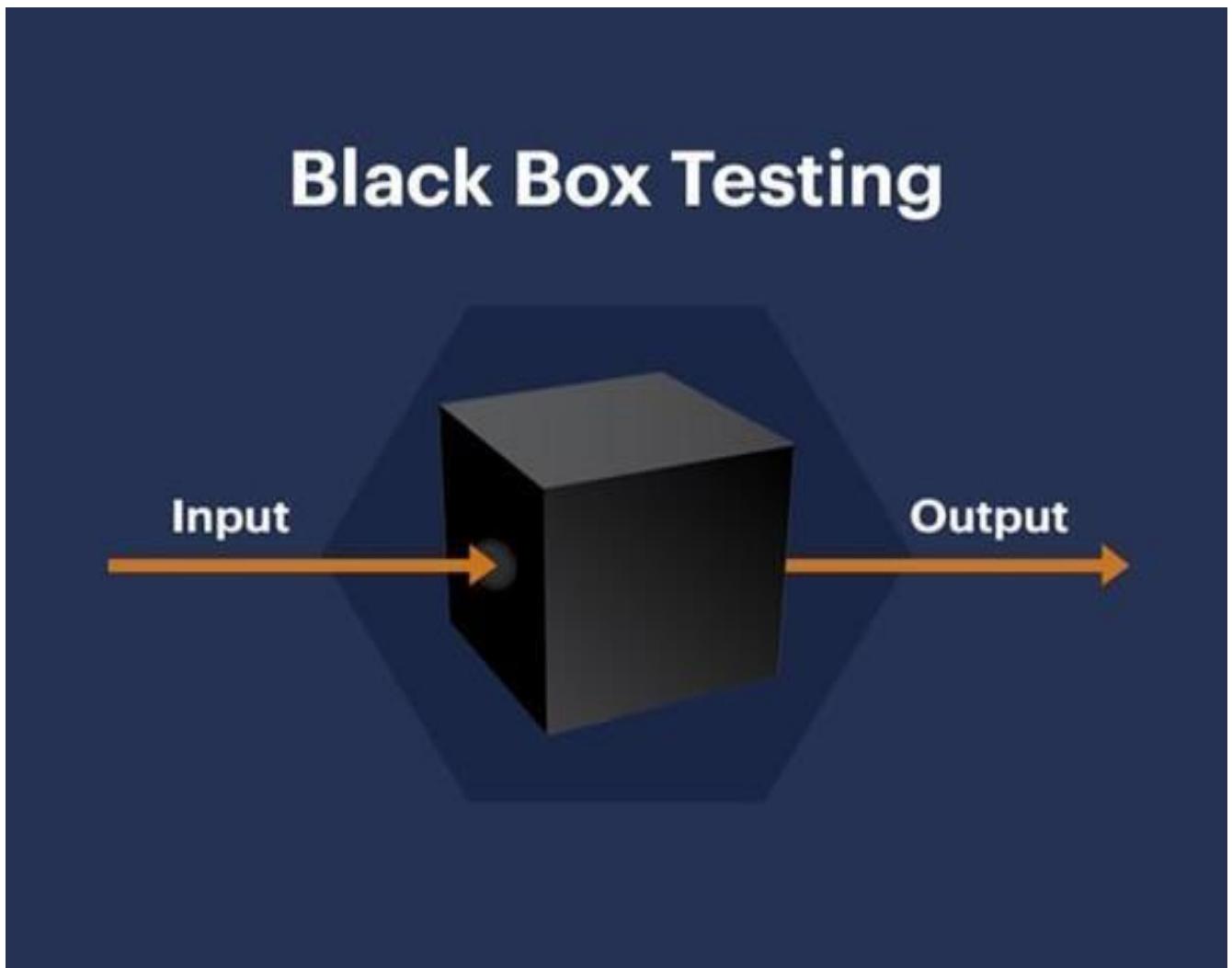
we have used the following testing method-

Here we apply two kind of testing

- Black box testing
- White box testing

- **Black box testing:**

In black box testing, test cases are designed from an examination of the input/output values only and no knowledge of design or code is required.

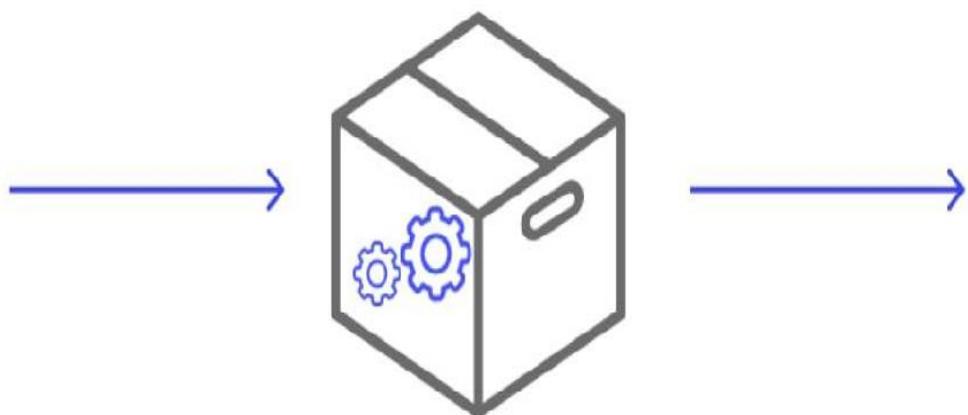


- **White box testing:**

White box testing is an important type of testing. A large number of white box testing strategies exists. Each testing strategy essentially designs test cases best on analysis of some aspect of source code and based on some heuristic.



White Box Testing



❖ **Bibliography:**

- Software Engineering by **Rajib Mall**
- Database Management System by **Er. Rajiv Chopra**
- Database Management System by **Avi Silberschatz . Henry F. Korth**
- www.studentdocu.com
- www.academia.edu
- www.researchgate.net
- www.youtube.com
- www.tutorialpoint.com

❖ **Group Members:**

- **Arpita Chakraborty**
- **Maitreye Das**
- **Jhulan Karmakar**

❖Conclusion:

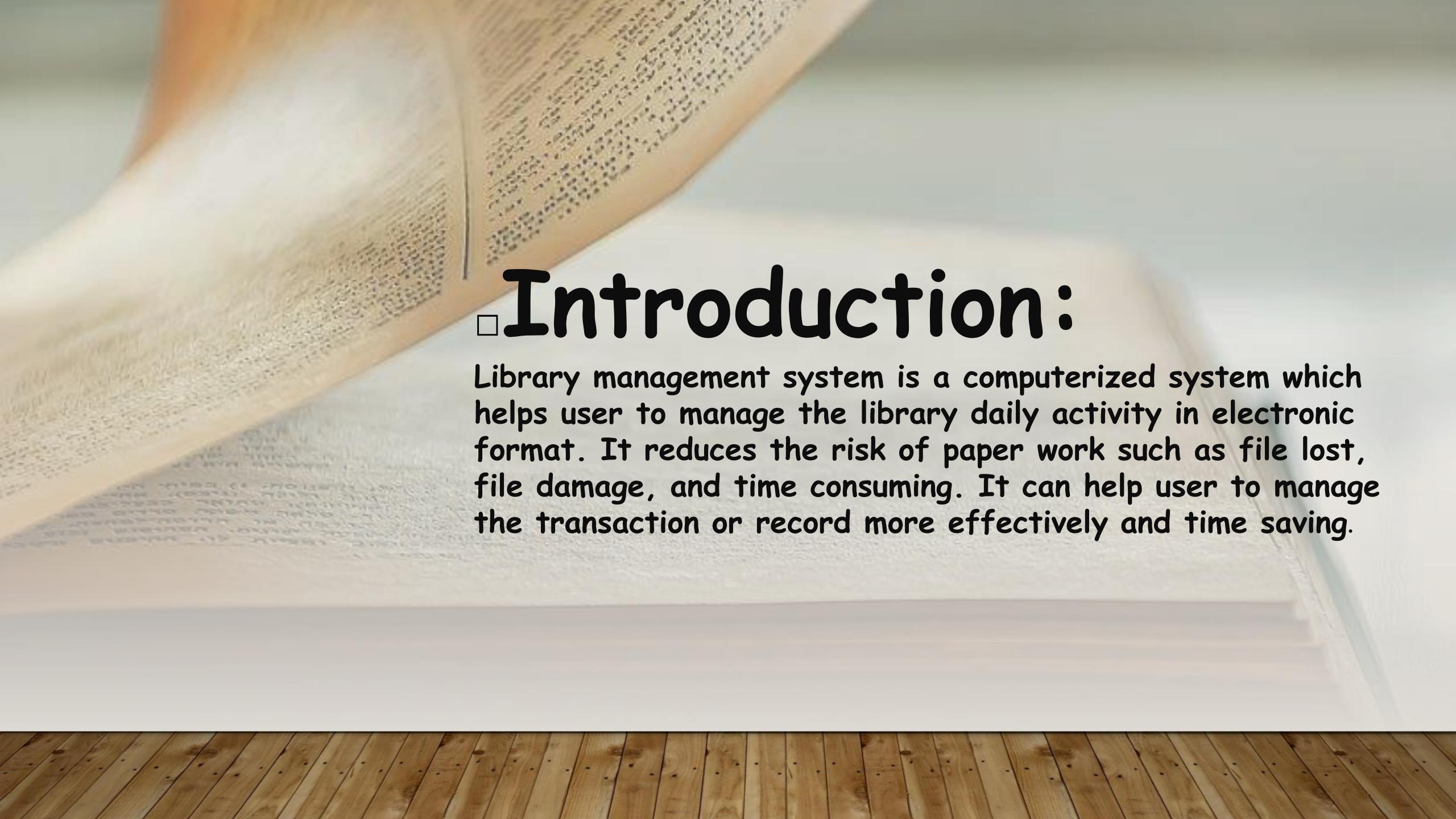
This website provides a computerized version of library management system which will benefit the students as well as the staff of the library. It makes entire process online where student can search books, staff can generate reports and do book transactions. It also has a facility for student login where student can login and can see status of books issued as well request for book or give some suggestions. It has a facility of teacher's login where teachers can add lectures notes and also give necessary suggestion to library and also add info about workshops or events happening in our college or nearby college in the online notice board.

THANK
YOU

LIBRARY MANAGEMENT SYSTEM

Complete and Automated library management system





□Introduction:

Library management system is a computerized system which helps user to manage the library daily activity in electronic format. It reduces the risk of paper work such as file lost, file damage, and time consuming. It can help user to manage the transaction or record more effectively and time saving.



Problem Definition:

The problem occurred before having computerized system includes:

1. **File lost:** When computerized system is not implemented file is always lost because of human environment. Sometimes due to some human error there may be a loss of records.

2. **File damaged:** When a computerized system is not their file is always lost due to some accident like spilling of water by some member on file accidentally. Besides some natural disaster like floods or fires may also damage the files.

- 
3. Difficult to search record: When there is no computerized system there is always a difficulty in searching of records if the records are large in number.
 4. Space consuming: After the number of records become large the space for physical storage of file and records also increases if no computerized system is implemented.
 5. Cost consuming: As there is no computerized system the to add each record paper will be needed which will increase the cost for the management of library.



Primary reasons for choosing the topic

A college Library management is a project that manages and stores books information electronically according to students need. The system helps both student and library manager to keep a constant track of all the books available in the library.

It removes manual process of issuing books and simplifies the way of issuing book to save time and effort.



Main Objective of the project:

Improvement in control and performance. The system is developed to cope up with the current issues and problems of library. The system can add user, validate user and is also bug free.

||Save cost:

After computerized system is implemented less human force will be required to maintain the library thus reducing the overall cost.

||Save time:

Librarian is able to search record by using few clicks of mouse and few search keywords thus saving his valuable time.

||Option of online Notice board:

Librarian will be able to provide a detailed description of workshops going in the college as well as in nearby colleges

||Lecture Notes:

Teacher have a facility to upload lectures notes in a pdf file having size not more than 10mb.



Scope of the project:

- The system generates types of information that can be used for various purposes.
- Create distinct product users based on their roles and permissions.
 - Authenticate users at their login.
 - Facility to reserve books that are available.
 - A status page for all users to view books reserved by them.
 - Facility to cancel the reservation for a book made earlier.
 - A status page for all users to view books borrowed by them, their individual due dates and their individual penalties if any.
 - An interface to view and edit the own profile.
 - Provide method for adjusting account settings such as passwords.
 - Mechanism to reset the password in case user forgets it.
 - Providing interface to add or delete books to staffs.



Hardware specifications:

Operating System: Windows 10

Hard Disk: 1TB

Ram: 4GB

Processor: Intel core i3



Software specifications:

- **HTML**
- **My SQL**
- **PHP**
- **ORACLE DATABASE**

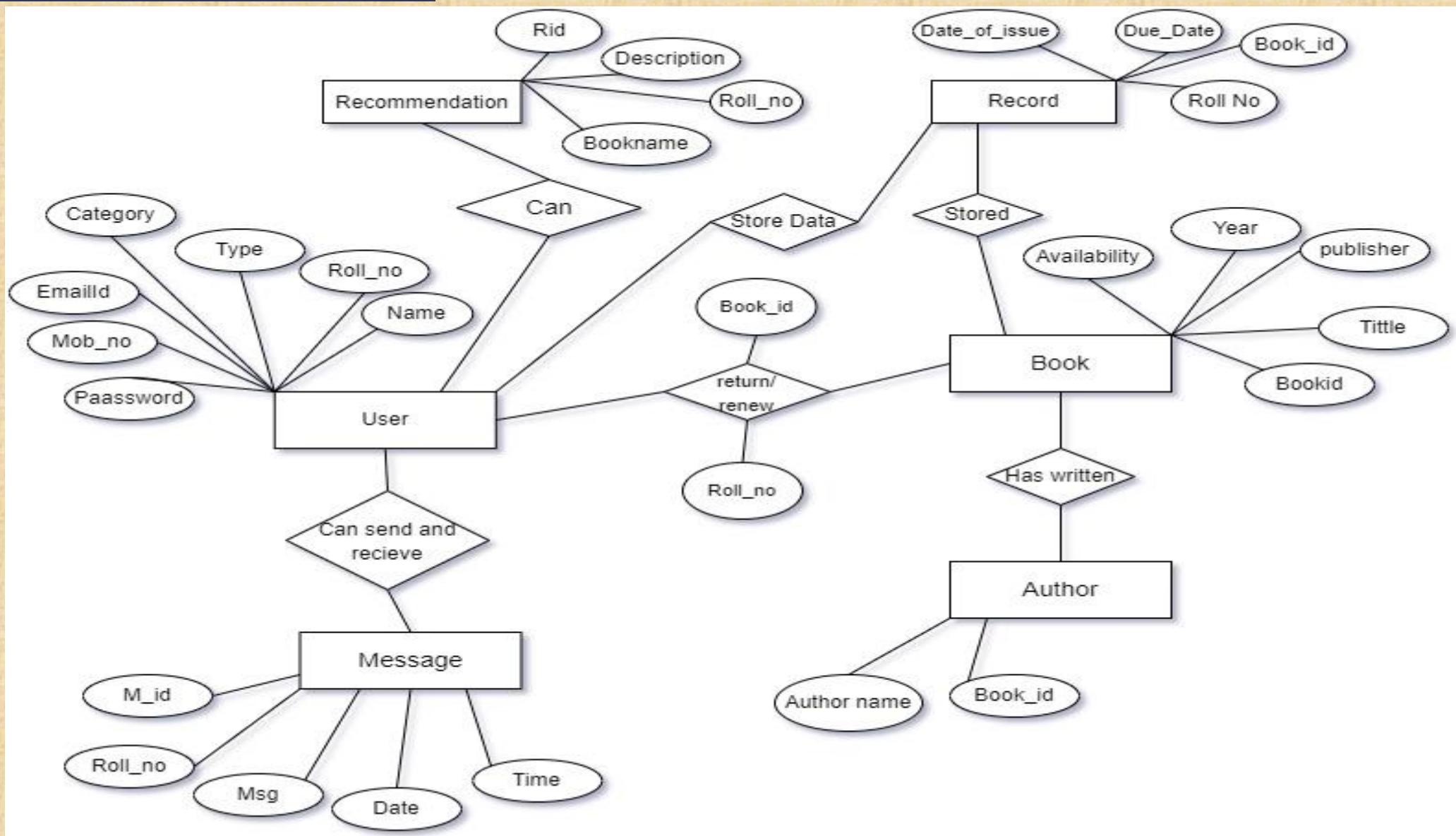


□ Working Methodology:

- LEVEL 0 DFD:



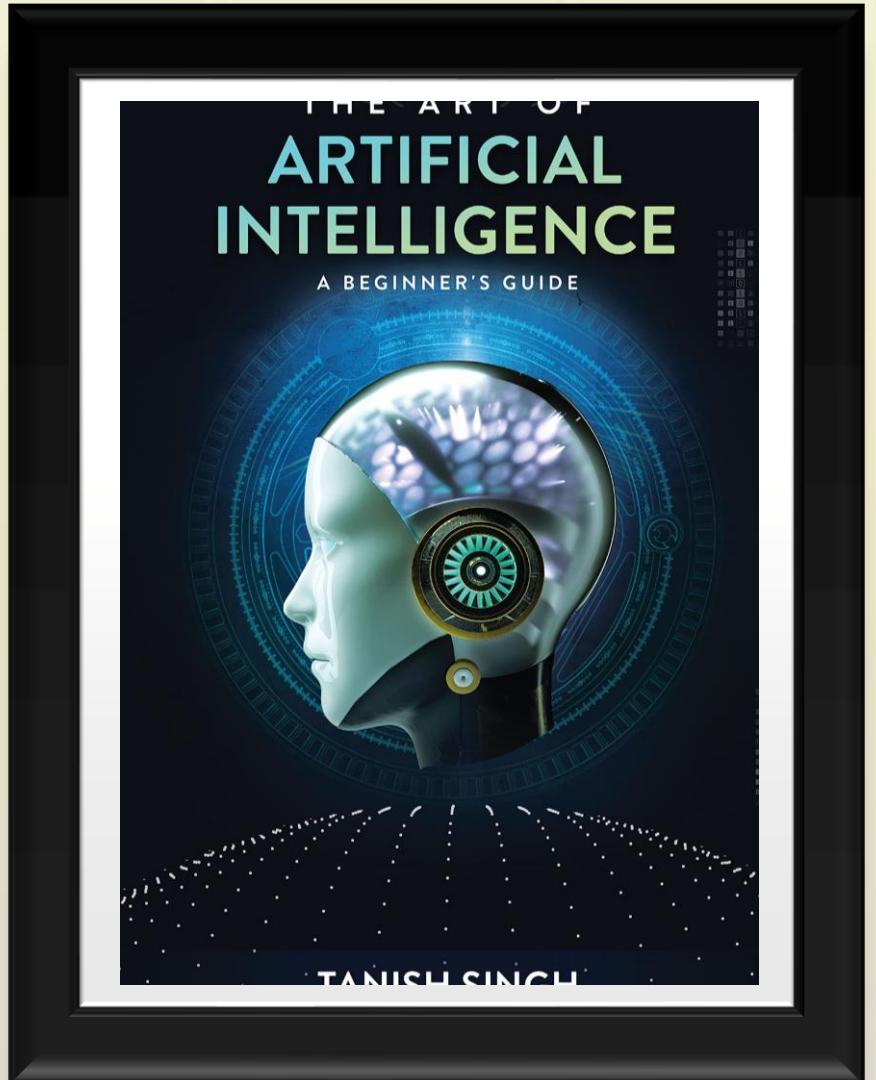
E R DIAGRAM

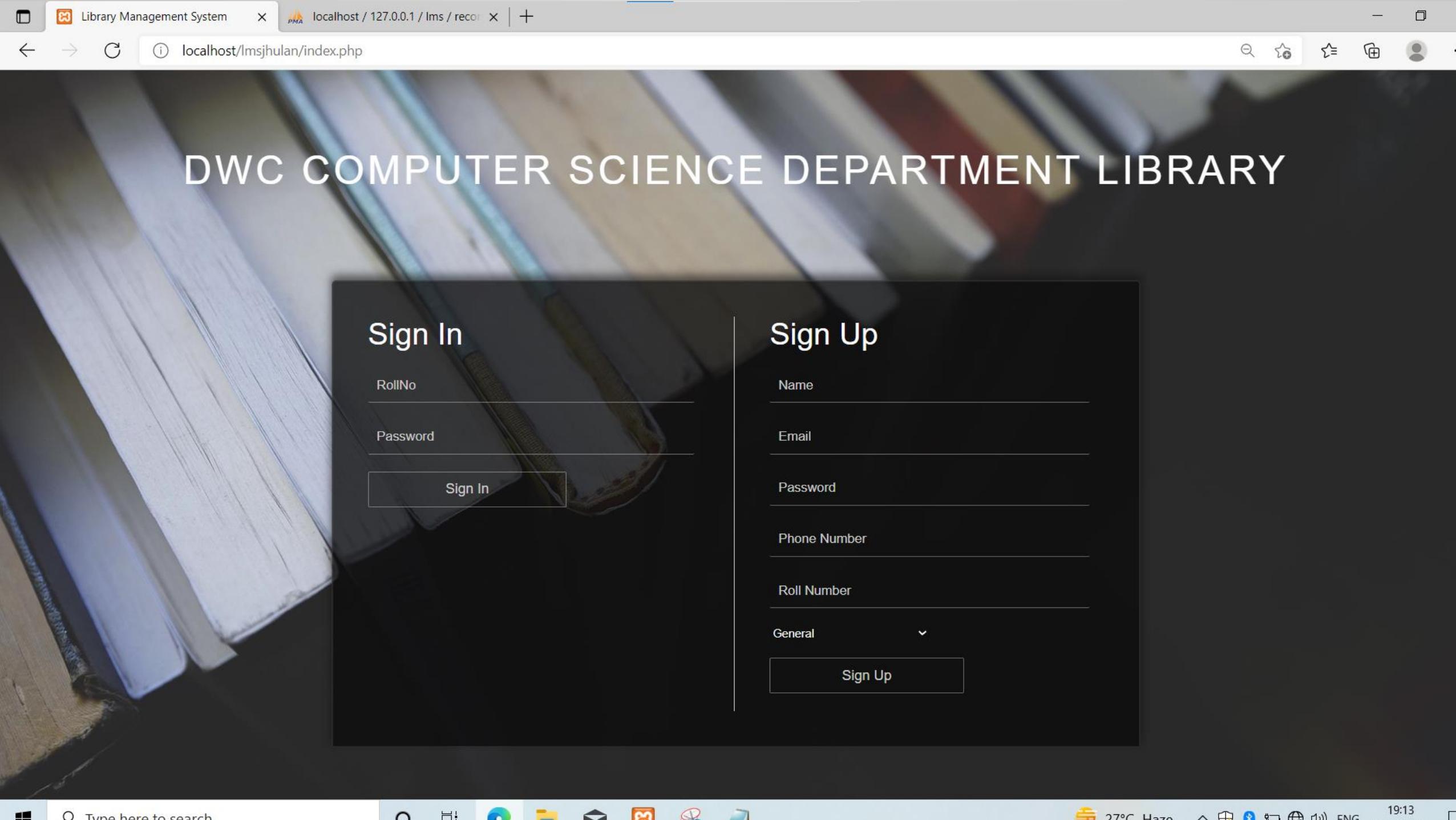




MODULES

- Admin books recommendation
- Admin manage students
- Admin requests page





LMS



- [!\[\]\(92473622ee867e0f40880c7f4c6547e7_img.jpg\) Home](#)
- [!\[\]\(0df579cc779febd3c97e29f479a93bfb_img.jpg\) Messages](#)
- [!\[\]\(506da6981b1b5c8bd92da424018ce103_img.jpg\) Manage Students](#)
- [!\[\]\(10a100c17a1d8bf6ac68b1902b849c36_img.jpg\) All Books](#)
- [!\[\]\(73f9c01bf6e06cca9c7fc192e98a2e81_img.jpg\) Add Books](#)
- [!\[\]\(c02a241b6e15cdf8b3c748c831947df6_img.jpg\) Issue/Return Requests](#)
- [!\[\]\(2dcbac502d31cf2bd6a448100ee21855_img.jpg\) Book Recommendations](#)
- [!\[\]\(9753599d8feff4f9c13b3ee61b7b30f5_img.jpg\) Currently Issued Books](#)
- [!\[\]\(85ece95aaea696ba1a7b02433405b5f8_img.jpg\) Logout](#)

Search:

Search

Name	Roll No.	Email id	
priya	b160001cs	priya@gmail.com	<button>Details</button>
Adya	b160002cs	adya@yahoo.com	<button>Details</button>
Aliya	b160003ch	aliya@hotmail.com	<button>Details</button>
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Ashnoor	b160009cs	ashnoor@yahoo.com	<button>Details</button>
Hanya	b160010cs	hanya@hotmail.com	<button>Details</button>
Gwen	b160011ch	gwen@yahoo.com	<button>Details</button>
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Misti	b160013ee	misti@email.com	<button>Details</button>



LMS

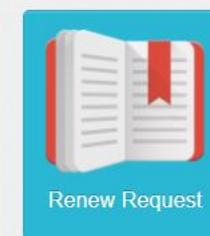
Book Name	Description	Recommended By
operating system	3rd_sem_ b.sc computer science	B160158CS
artificial intelligence	5th semester b.sc computer science	B160158CS
Operating System	An operating system (OS) is system software that manages computer hardware and software resources and provides common services for computer programs.	B160001CS
Networks	A computer network, or data network, is a digital telecommunications network which allows nodes to share resources. In computer networks, computing devices exchange data with each other using connections (data links) between nodes.	B160999CS
String Theory	In physics, string theory is a theoretical framework in which the point-like particles of particle physics are replaced by one-dimensional objects called strings. It describes how these strings propagate through space and interact with each other.	B160777CS
system security	fifth semester examination b.sc computer science	B160777CS

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LMS



- [!\[\]\(9f62649da8f74c98ffc0d5aa00312c3e_img.jpg\) Home](#)
- [!\[\]\(0fe8d7981b629422dab688b5a3b802c8_img.jpg\) Messages](#)
- [!\[\]\(66357d3e0b37007417ce05c5fdb4bdf9_img.jpg\) Manage Students](#)
- [!\[\]\(1c48b8a2f67807ff928ac65f47d7b301_img.jpg\) All Books](#)
- [!\[\]\(01bd41f70c740566b02b1ab56b0d5613_img.jpg\) Add Books](#)
- [!\[\]\(7a1bf02153fe2fe576293f0d76e3575a_img.jpg\) Issue/Return Requests](#)
- [!\[\]\(d7cb490eafe16bbb92829e9c6cd0b072_img.jpg\) Book Recommendations](#)
- [!\[\]\(9c485fc618ce2d40fd39d4c7b8cf6344_img.jpg\) Currently Issued Books](#)
- [!\[\]\(6428e34c3a186084b7704bb327e592da_img.jpg\) Logout](#)



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□ Bibliography:

- www.java.sun.com/docs/books/tutorial
- Wrox professional java
- www.javatoint.com



Limitations :

Problem 1: The data stored is prone to cyber hacks.
Opting for a reliable online system eliminates the risk

Problem 2: Costly and Expensive

Problem 3: Complicated to operate

Problem 4: Online Systems require high-speed internet connectivity

Problem 5: Risk of computer virus

Problem 6: The automation feature is not available in offline/ open-source systems thus, requires manual action to perform operations.

Problem 7: Unlike online systems that utilize cloud computing, Open-source systems store data on a computer hard drive. This increases the risk of data loss.



Conclusion:

This website provides a computerized version of library management system which will benefit the students as well as the staff of the library. It makes entire process online where student can search books, staff can generate reports and do book transactions. It also has a facility for student login where student can login and can see status of books issued as well request for book or give some suggestions. It has a facility of teachers login where teachers can add lectures notes and also give necessary suggestion to library and also add info about workshops or events happening in our college or nearby college in the online notice board.

DURGAPUR WOMENS' COLLEGE

PRESENTED BY

- **ARPITA CHAKRABORTY**
- **EMAIL.ID-carpita664@gmail.com**

THANKING YOU

DURGAPUR WOMEN'S COLLEGE



Department of Computer Science

KAZINAZRULUNIVERSITY

Project Report **Online Medical System**

Submitted to:

Sudip kumar Palit

Submitted by:

- Pritilata Das Modak
- Sudipta Pobi
- Swati Garai

Batch :- 2nd year

Submission date :-

Group Profile

Project name: Website For Online Medical System

Course Name: Web Programming

Course Code: BSCHCOSSE402

Sl no.	Name	Reg No.
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INDEX

1. Problem introduction
2. Primary reason to choose the topic
3. Main object
4. Scope of the project
5. Hardware and Software Specification
6. Design
 - Entity table
 - DFD (Data Flow Diagram)
 - ER Diagram
7. TESTING
8. LIMITATION
9. BIBLOGRAPHY
10. CONCLUSION

ABOUT PROBLEM

Let's first discuss, the problems, which are faced by **Patients and Medical Authority:**

- Hospital Authority faced many problems like managing doctors and managing patients.
- Hospital Authorities has Unstructured database allows data redundancy.
 - Not reliable i.e. error prone
- Patients have to wait for long appointments and emergency patients have issues.

So, to overcome such problems, the best thing is to use a Computerize system, that can maintain all data structured, can allow multiple level of users to store, retrieve information properly.

PRIMARY REASON TO CHOOSE THE TOPIC

We often see that; hospitals and small or medium nursing homes have an issue with lack of management. And It actually leads to a chaos and the patients have to face the more.

That's why we created the **Online Medical Center**. This system is very handy for different levels of users.

Main objective

MAIN OBJECTIVE:

From searching a suitable doctor, to registering as a patient, End User can also use it to book an appointment.

Apart from booking and messaging, the main thing is management, which is done by an admin.

User can search about the doctor and doctor and doctor 'slot' .

Overall, the project demonstrates a real **Online Medical Center**, where the management gets easy and the communication between people get easier.

SCOOP OF THE PROJECT:

That's why our project is so helpful. It comes with the following advantages:

- First of all, Graphical User Interface (GUI) gives users a clean operational bench.
- Many users can use many time for check about doctor and doctor 'slot'.
- Patients can easily register and book an appointment
- Doctors can see their appointments and can make their schedule.

Overall, our project helps all levels of users by making the whole system so easy.

HARDWARE AND SOFTWARE SPECIFICATION

HARDWARE REQUIRTMENT

Intel CORE i5 11 Gen

32GB disk space

Monitor, Keyboard and Mouse to configure the server

SOFTWARE REQURTMENT

ORACLE,TOMCAT

N.B.: - Hardware and Software are chosen precisely, such that any vulnerabilities can be ignored.

DESIGN

ENTITY

Hospital(hos.id,hos.name,hos.add,hos.desc)

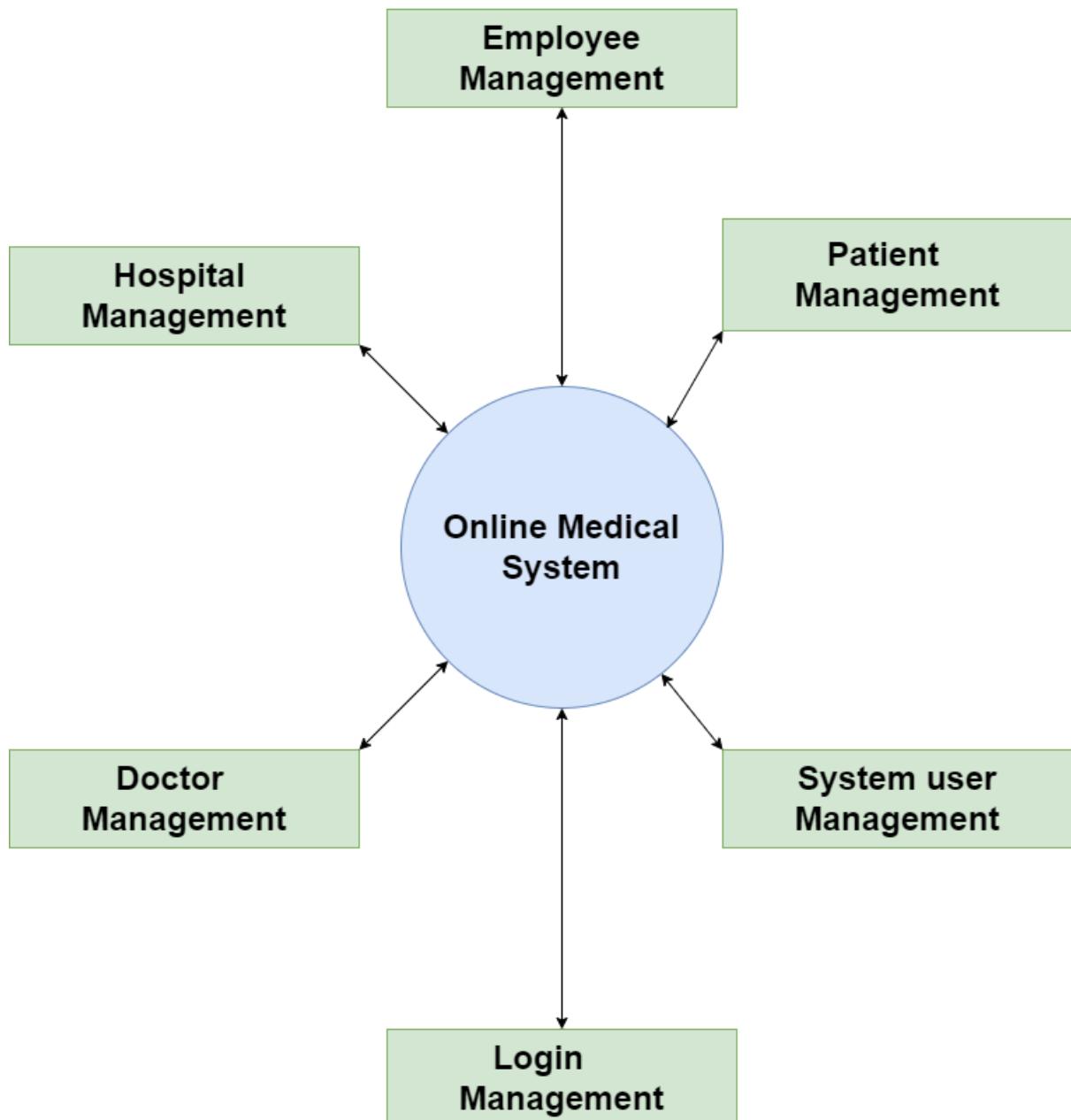
Doctor(doc.id,doc.name,doc.qualification,doc.fees,doc.emailid,doc.add)

Pharmacist(phrm.id,phrm.phno,phrm.name,phrm.add,phrm.emailid)

Log in(log.id,log.time,log.password)

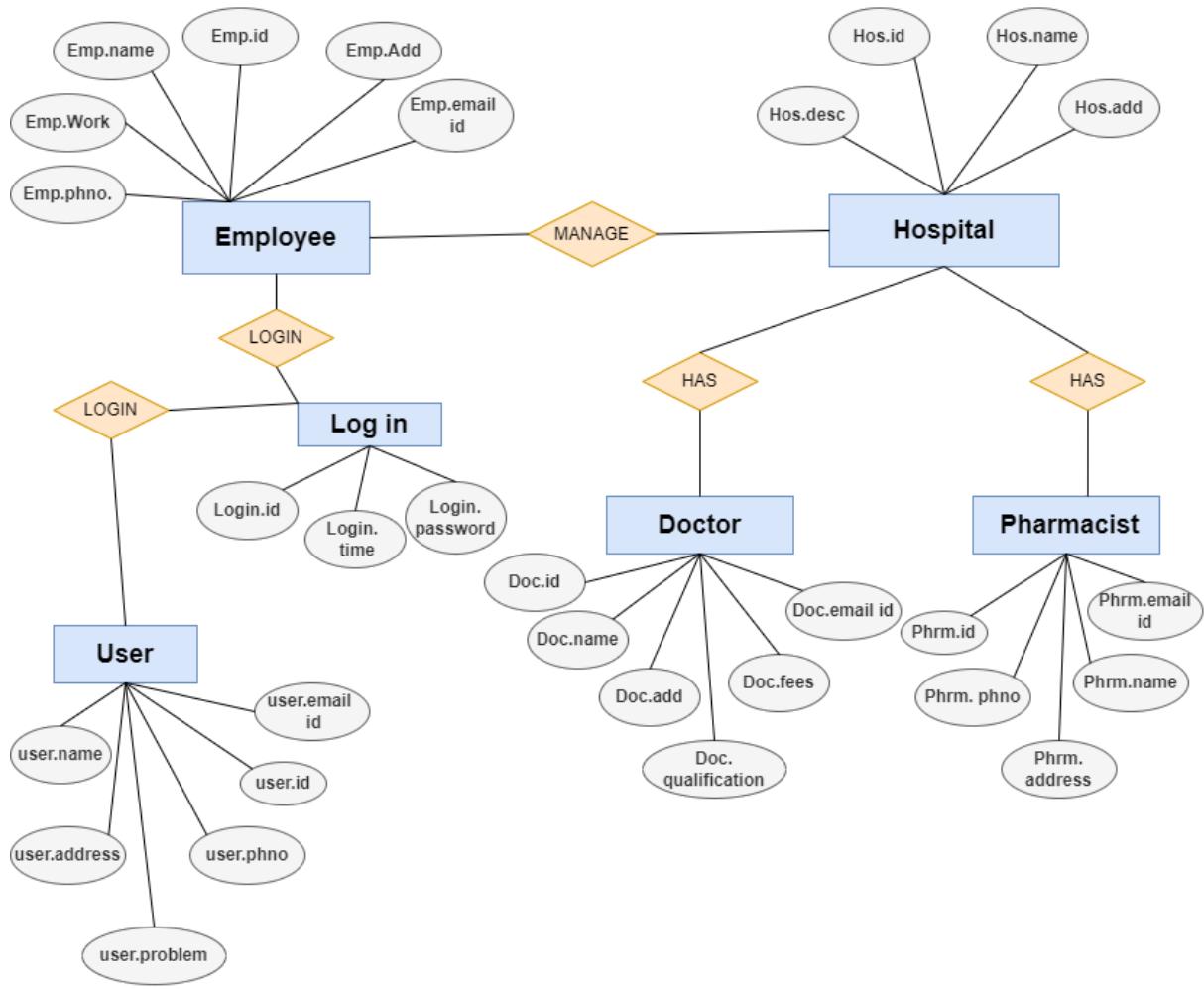
User(user.id,user.name,user.phno,user.add,user.problem,user.emailid)

DFD(DATA FLOW DAIGRAM



Zero Level DFD - Online Medical System

ENTITY RELATIONSHIP DAIGRAM



ENTITY RELATIONSHIP DIAGRAM - ONLINE MEDICAL SYSTEM

TESTING

The purpose of testing is to discover errors. Testing is the process of trying to discover every conceivable fault or weakness in a work product.

TYPES OF TESTING:

Integration testing:

Integration tests are designed to test integrated software components to determine if they actually run as one program.

System Test:

System testing ensures that the entire integrated software system meets requirements.

White Box Testing:

White Box Testing is a testing in which the software tester has knowledge of the inner workings, structure and language of the software, or at least its purpose.

Black Box Testing:

Black Box Testing is testing the software without any knowledge of the inner workings, structure or language of the module being tested.

Unit Testing:

Unit testing is usually conducted as part of a combined code and unit test phase of the software lifecycle, although it is not uncommon for coding and unit testing to be conducted as two

Test Results:

All the test cases mentioned above passed successfully. No defects encountered.

LIMITATIONS

It is commonly believed that the state of the art today is such that all websites that are developed are unable to fulfill client's requirements. So, this project also has some limitations.

BIBLIOGRAPHY

Web Reference:

- www.google.com
- www.w3schools.com
- www.wikipedia.com
- www.scribd.com

Book Reference:

- Database System concepts by Silberschatz Korth Sudaeshan
- Software engineering by Rajib Mall

CONCLUSION

Since we are entering details of the patients electronically in the "ONLINE MEDICAL SYSTEM", data will be secured. Using this application we can retrieve patient's history with a single click. Thus processing information will be faster. It guarantees accurate maintenance of Patient details. It easily reduces the book keeping task and thus reduces the human effort and increases accuracy speed.



LIBRARY MANAGEMENT SYSTEM

- PRITILATA DAS MODAK

LIBRARY MANAGEMENT SYSTEM

Presented by :

Name : Pritilata Das Modak

Roll No: SH20053

Registration No: KNU20106001254

Submitted to:

Computer Science Department



INDEX

- INTRODUCTION
- PROBLEM DEFINITION
- PRIMARY REASONS FOR CHOOSING THE TOPIC
- OBJECTIVE
- SCOPE OF THE PROJECT
- HARDWARE AND SOFTWARE SPECIFICATIONS
- DATA FLOW DIAGRAM
- ERD
- IMPLEMENTATION
- LIMITATIONS
- CONCLUSION



INTRODUCTION

- LIBRARY MANAGEMENT SYSTEM IS A COMPUTERIZED SYSTEM WHICH HELPS ADMIN TO MANAGE THE LIBRARY DAILY ACTIVITY IN ELECTRONIC FORMAT. IT REDUCES THE RISK OF PAPER WORK SUCH AS FILE LOST, FILE DAMAGE, AND TIME CONSUMING.
- THIS HELPS TO KEEP THE RECORDS OF WHOLE TRANSACTIONS OF THE BOOKS AVAILABLE IN THE LIBRARY.
- THE PROJECT “LIBRARY MANAGEMENT SYSTEM” WHICH IS VERY EASY TO USE AND FULFILLS ALL THE REQUIREMENT OF A ADMIN AND A USER.



PROBLEM DEFINITION

THE PROBLEM OCCURRED BEFORE HAVING COMPUTERIZED SYSTEM INCLUDES:

- FILE LOST: WHEN THERE IS NO COMPUTERIZED SYSTEM, IMPLEMENTED FILE WAS ALWAYS LOST BECAUSE OF HUMAN ENVIRONMENT. SOME TIMES DUE TO SOME HUMAN ERROR, THERE MAY BE A LOSS OF RECORDS.
- FILE DAMAGED: WHEN THERE IS NO COMPUTERIZED SYSTEM, FILE WAS ALWAYS LOST DUE TO SOME ACCIDENT LIKE SPILLING OF WATER BY SOME MEMBER ON FILE ACCIDENTALLY. BESIDES SOME NATURAL DISASTER LIKE FLOODS OR FIRES MAY ALSO DAMAGE THE FILES.
- DIFFICULT TO SEARCH RECORD: WHEN THERE IS NO COMPUTERIZED SYSTEM, THERE IS ALWAYS A DIFFICULTY IN SEARCHING OF RECORDS; IF THE RECORDS ARE LARGE IN NUMBER.
- COST CONSUMING: AS THERE IS NO COMPUTERIZED SYSTEM, THE TO ADD EACH RECORD PAPER WILL BE NEEDED WHICH WILL INCREASE THE COST FOR THE MANAGEMENT OF LIBRARY.

PRIMARY REASONS FOR CHOOSING THE TOPIC

- LIBRARY MANAGEMENT SYSTEM MANAGE AND STORES BOOKS INFORMATION ELECTRONICALLY.
- ACCORDING TO STUDENTS NEED THE SYSTEM HELPS BOTH STUDENT AND ADMIN TO KEEP A CONSTANT TRACK OF ALL THE BOOKS AVAILABLE IN THE LIBRARY.
- IT REMOVES MANUAL PROCESS OF ISSUING BOOKS AND SIMPLIFIES THE WAY OF ISSUING BOOK TO SAVE TIME AND EFFORT.



OBJECTIVE

- LIBRARY MANAGEMENT SYSTEM IS A COMPUTER-BASED SYSTEM THAT MANAGE THE CATALOGUE OF BOOKS IN LIBRARY.
- THE MAIN PURPOSE OF THIS SYSTEM IS TO MANAGE LIBRARY DAILY OPERATION EFFICIENTLY. THAT CAN RECEIVE INPUT FROM THE USERS AND GENERATE AUTOMATICALLY OUTPUT IN EASY WAY AND SHORT TIME.
- LIBRARIAN IS ABLE TO SEARCH RECORD BY USING FEW CLICKS OF MOUSE AND FEW SEARCH KEYWORDS THUS SAVING HIS VALUABLE TIME.
- THE SYSTEM IS DEVELOPED TO COPE UP WITH THE CURRENT ISSUES AND PROBLEMS OF LIBRARY.

HARDWARE AND SOFTWARE SPECIFICATIONS

HARDWARE

- Operating System: Windows 10
- Hard Disk: 1TB
- Ram: 4GB
- Processor: Ryzen3 or Intel core i3

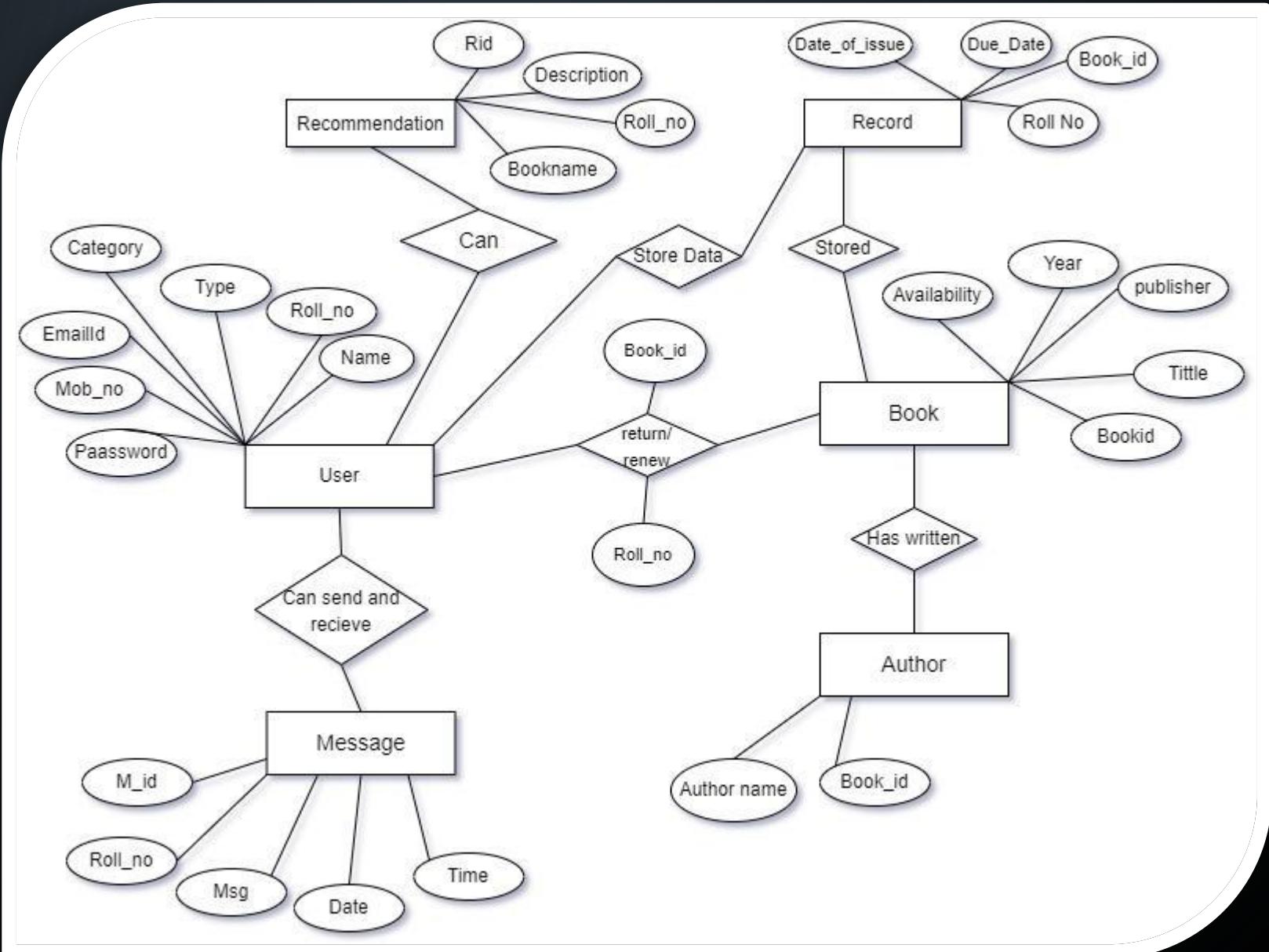
SOFTWARE

- Html
- Css
- JavaScript
- Php
- My Sql

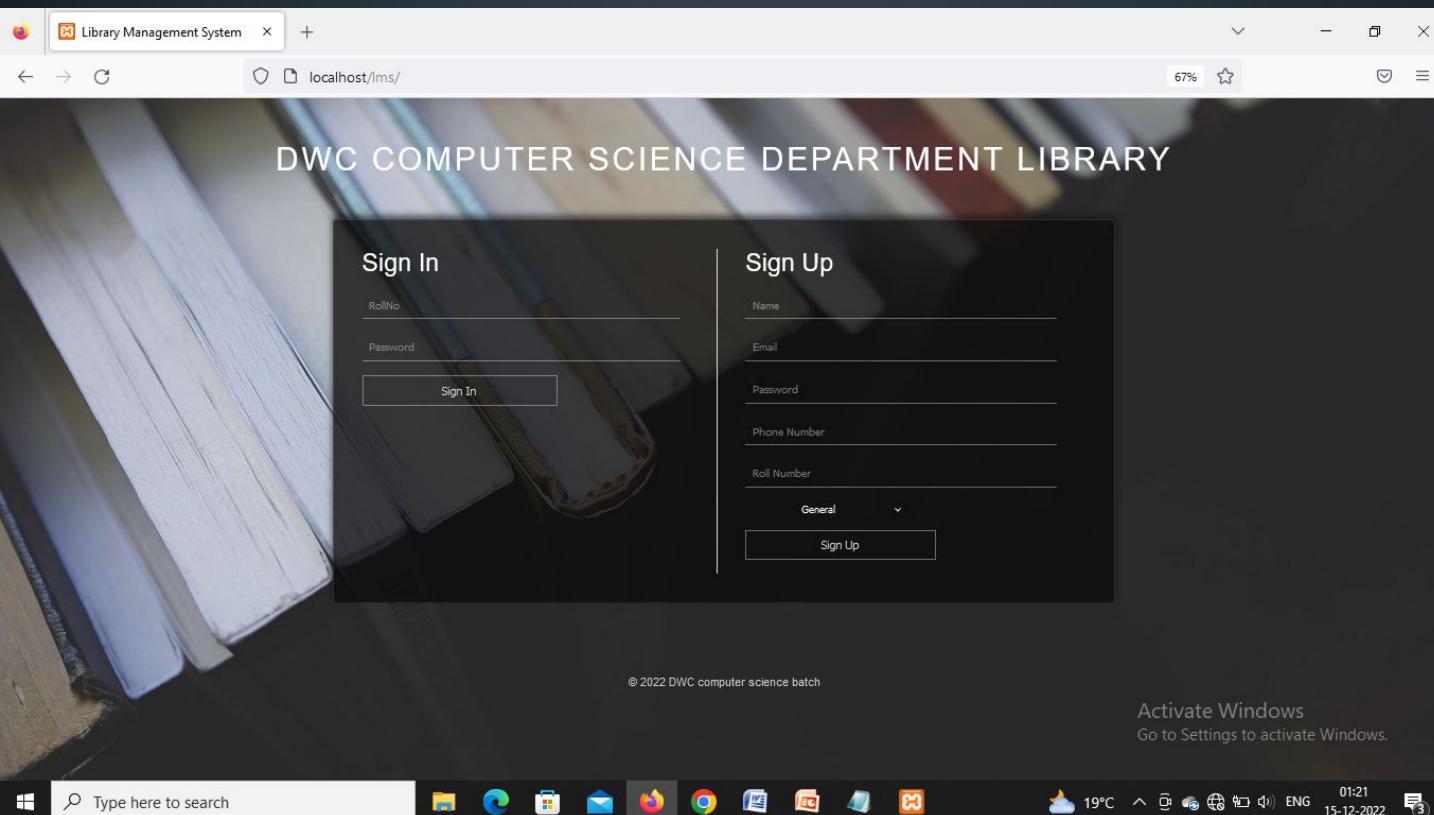
DATA FLOW DIAGRAM



ERD

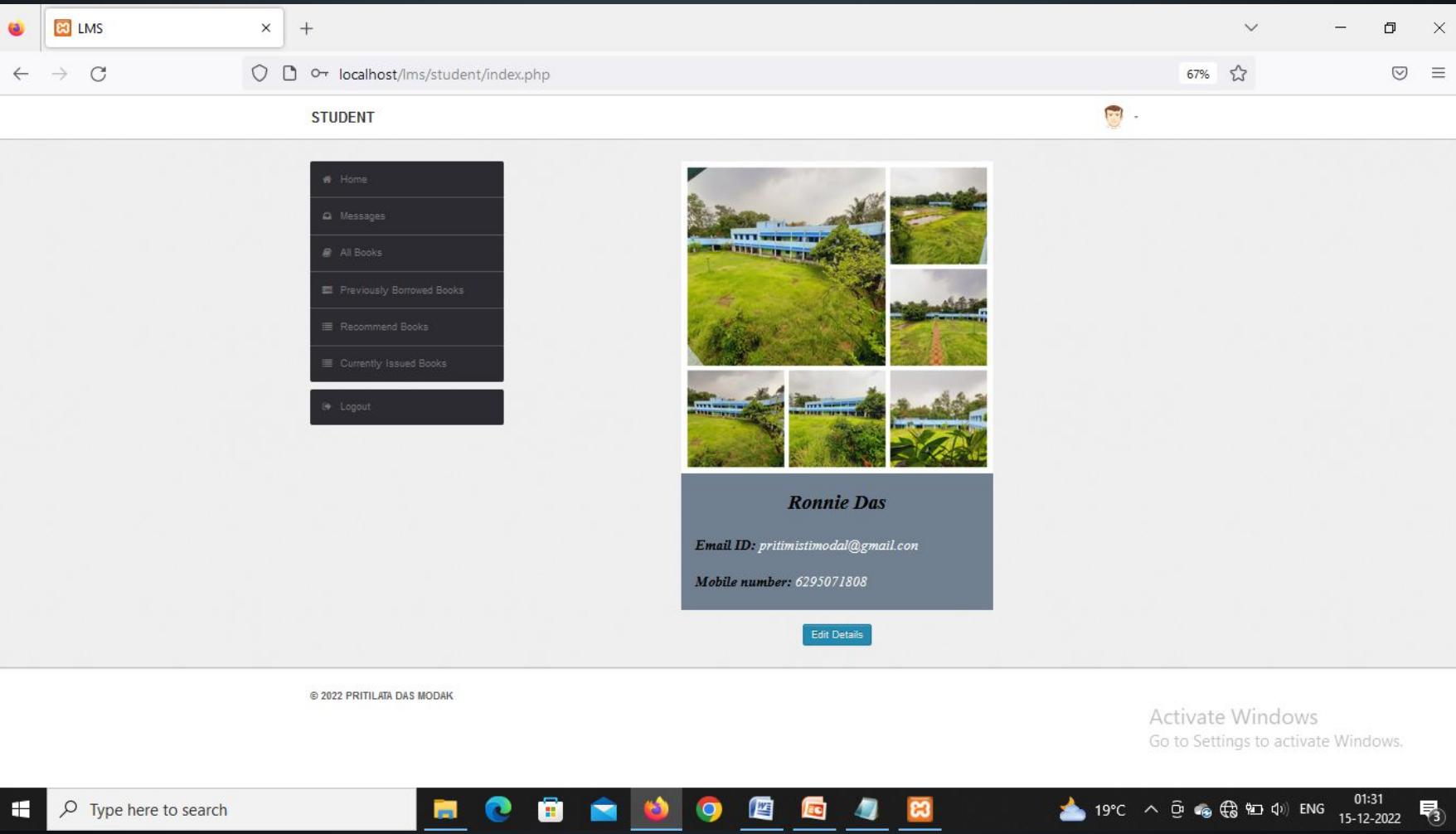


SYSTEM IMPLEMENTATION



LOGIN PAGE

This is the admin and user Login page . After signup the admin can login the system. If admin is not registered then he/she can easily sign up and fulfill the requirement then he/she use the system as user.



HOME PAGE

This is the Home Page of the project . Here different easy to use navigations are present like messages, all books, previously borrowed books, recommend books, currently issued books . All those button are play various role in this project.

LMS

localhost/lms/student/book.php

67%

Logout

Search: Enter Name/ID of Book

Book id Book name Availability Details Issue

Book id	Book name	Availability	Details	Issue
11	Atomic and Nuclear Systems	AVAILABLE		
18	Theory of Machines	AVAILABLE		
12	The PlayBook	AVAILABLE		
8	Database Processing	AVAILABLE		
7	Discrete Structures	AVAILABLE		
6	DSA	AVAILABLE		
14	Heat and Thermodynamics	AVAILABLE		
16	Nuclear Physics	AVAILABLE		
17	Operating System	AVAILABLE		
15	Machine Design	AVAILABLE		
13	General Theory of Relativity	AVAILABLE		
9	Computer System Architecture	AVAILABLE		
3	TOC	AVAILABLE		
10	C: How to program	AVAILABLE		
4	TOC	AVAILABLE		
5	DAA	NOT AVAILABLE		
2	DBMS	NOT AVAILABLE		

Activate Windows
Go to Settings to activate Windows.

Type here to search

19°C 01:37 15-12-2022

ALL BOOK

LMS

localhost/lms/student/book.php

67%

Logout

Search: Enter Name/ID of Book

Book id Book name Availability Details Issue

Book id	Book name	Availability	Details	Issue
11	Atomic and Nuclear Systems	AVAILABLE		
18	Theory of Machines	AVAILABLE		
12	The PlayBook	AVAILABLE		
8	Database Processing	AVAILABLE		
7	Discrete Structures	AVAILABLE		
6	DSA	AVAILABLE		
14	Heat and Thermodynamics	AVAILABLE		
16	Nuclear Physics	AVAILABLE		
17	Operating System	AVAILABLE		
15	Machine Design	AVAILABLE		
13	General Theory of Relativity	AVAILABLE		
9	Computer System Architecture	AVAILABLE		
3	TOC	AVAILABLE		
10	C: How to program	AVAILABLE		
4	TOC	AVAILABLE		
5	DAA	NOT AVAILABLE		
2	DBMS	NOT AVAILABLE		

Activate Windows
Go to Settings to activate Windows.

Type here to search

19°C 01:37 15-12-2022

ALL BOOK

LMS

Search: Enter Book Name/Book Id.

Book id	Book name	Issue Date	Due date	
15	Machine Design	2022-12-15	2023-02-13	<input type="button" value="Renew"/> <input type="button" value="Return"/>
17	Operating System	2022-12-15	2023-02-13	<input type="button" value="Renew"/> <input type="button" value="Return"/>
18	Theory of Machines	2022-12-15	2023-02-13	<input type="button" value="Renew"/> <input type="button" value="Return"/>

Home
Messages
All Books
Previously Borrowed Books
Recommend Books
Currently Issued Books
Logout

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Activate Windows
Go to Settings to activate Windows.

localhost/lms/student/current.php

CURRENTLY ISSUE BOOK

LMS

Search: Enter Book Name/Book Id.

Book id	Book name	Issue Date	Return Date
11	Atomic and Nuclear Systems	2022-12-15	2022-12-15

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Activate Windows
Go to Settings to activate Windows.

Type here to search

PRIVOUSLY BORROWED BOOK/HISTORY

LMS

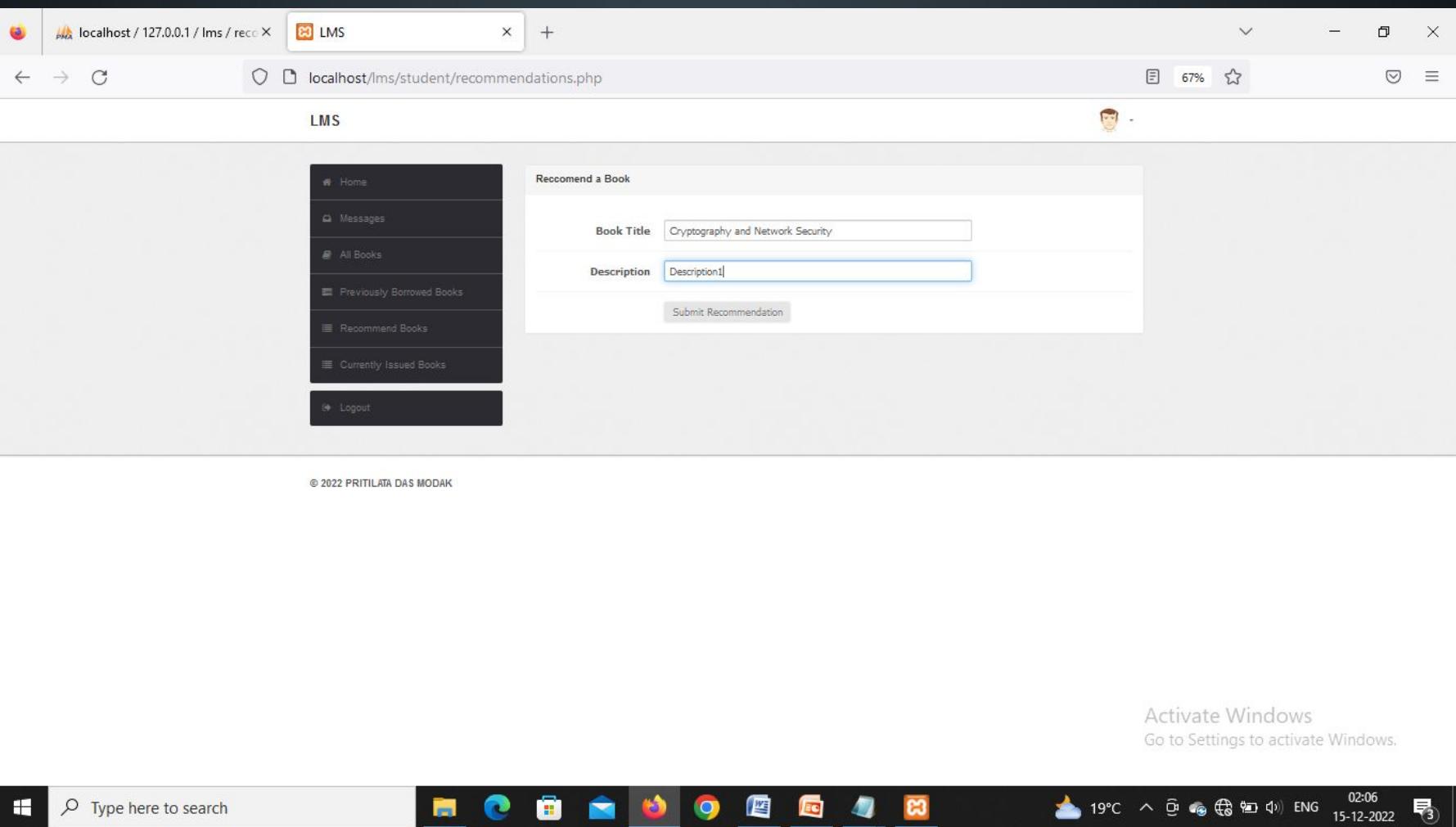
Message

Message	Date	Time
Your request for return of BookId: 11 has been accepted	2022-12-15	01:53:15
Your request for issue of BookId: 17 has been accepted	2022-12-15	01:53:06
Your request for issue of BookId: 18 has been accepted	2022-12-15	01:53:02
Your request for issue of BookId: 15 has been accepted	2022-12-15	01:50:44
Your request for issue of BookId: 11 has been accepted	2022-12-15	01:44:03

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Activate Windows
Go to Settings to activate Windows.

MESSAGES



BOOK RECOMMENDATION



LIMITATION

- No remember me (Password) option is available.
- No member login option.
- The whole system is not online base system.
- No email verification option.



CONCLUSION

The library management system needs to be computerized to reduce human efforts and to increase the efficiency. The main focus of this project is to less human efforts and keeping the record more efficiency.

THANK YOU



PROJECT REPORT

On Library Management System

This project is developed by-

PRITILATA DASMODAK
ARPITA CHAKRABORTY
JHULAN KARMAKAR
MAITREYE DAS
SUDIPTA POBI

Durgapur Women's College
B.S.C. COMPUTER SCIENCE DEPARTMENT

TITLE OF THE PROJECT

LIBRARY MANAGEMENT SYSTEM

INTRODUCTION-

Library management system is a computerized system which helps

User to manage the library daily activity in electronic format. It reduces the risk of paper work such as file lost, file damage, and time consuming. It can help user to manage the transaction or record more effectively and time saving.

PROBLEM DEFINITION-

The problem occurred before having computerized system includes

- **File lost**- When computerized system is not implemented file is always lost because of human environment. Sometimes due to some human error there may be a loss of records
- **File damaged**- When a computerized system is not their file is always lost due to some accident like spilling of water by some member on file accidentally. Besides some natural disaster like floods or fires may also damage the files.
- **Difficult to search record**- When there is no computerized system there is always a difficulty in searching of records if the records are large in number.
- **Space consuming**- After the number of records become large the space for physical storage of file and records also increases if no computerized system is implemented.
- **Cost consuming**- As there is no computerized system the to add each record paper will be needed which will increase the cost for the management of library.

PRIMARY REASONS FOR CHOOSING THE TOPIC-

A college Library management is a project that manages and stores books information electronically According to students need. The system helps both student and library manager to keep a constant track of all the books available in the library. It removes manual process of issuing books and simplifies the way of issuing book to save time and effort.

MAIN OBJECTIVE OF THE PROJECT-

Improvement in control and performance. The system is developed to cope up with the current issues and problems of library. The system can add user, validate user and is also bug free

Save cost-	After computerized system is implemented less human force will be required to maintain the library thus reducing the overall cost
Save time-	Librarian is able to search record by using few clicks of mouse and few search keywords thus saving his valuable time
Option of online Notice board-	Librarian will be able to provide a detailed description of workshops going in the college as well as in nearby college
Lecture Notes-	Teacher have a facility to upload lectures notes in a pdf file having size not more than 10mb

SCOPE OF THE PROJECT

- The system generates types of information that can be used for various purposes.
- Create distinct product users based on their roles and permissions.
- Authenticate users at their login.
- Facility to reserve books that are available.
- Facility to reserve books that are available.
- A status page for all users to view books reserved by them.
- Facility to cancel the reservation for a book made earlier.
- A status page for all users to view books borrowed by them, their individual due dates and their individual penalties if any.
- An interface to view and edit the own profile.
- Provide method for adjusting account settings such as passwords.
- Mechanism to reset the password in case user forgets it.
- Providing interface to add or delete books to staffs.

HARDWARE SPECIFICATIONS

Operating System- Windows 10
Ram- 4GB

Hard Disk- 250 MB
Processor- Ryzen3

SOFTWARE SPECIFICATIONS

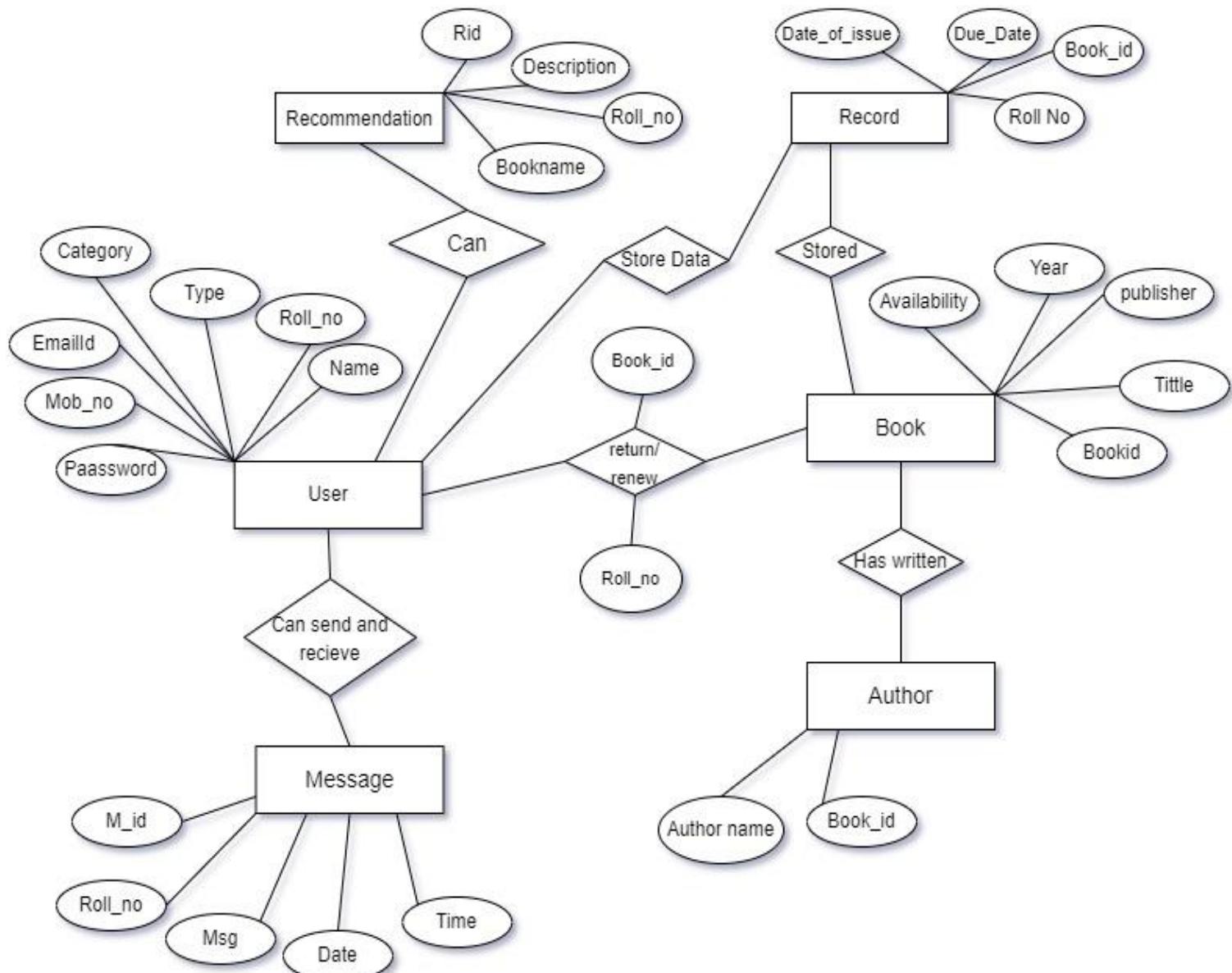
1. **HTML** 2. **CSS** 3 **JAVASCRIPT** 4. **PHP** 5. **PHP with MySQL**

WORKING METHODOLOGY

- LEVEL 0 DFD



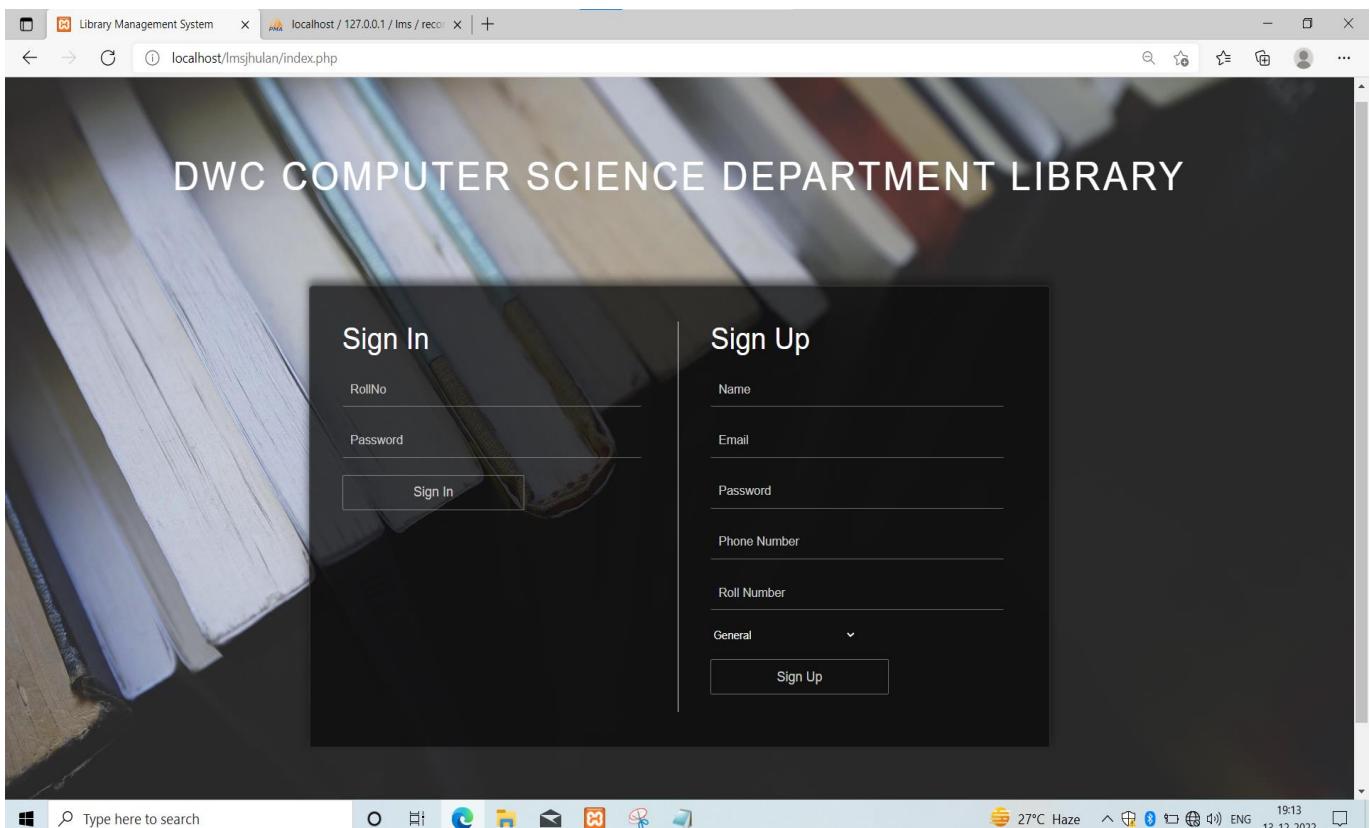
ERD Diagram of the project:-



LIMITATIONS :-

- **PROBLEM 1** The data stored is prone to cyber hacks. Opting for a reliable online system eliminates the risk
- **PROBLEM 2** Costly and Expensive
- **PROBLEM 3** Complicated to operate
- **PROBLEM 4** Online Systems require high-speed internet connectivity
- **PROBLEM 5** Risk of computer virus
- **PROBLEM 6** The automation feature is not available in offline/ open-source systems thus, requires manual action to perform operations.
- **PROBLEM 7** Unlike online systems that utilize cloud computing, Open-source systems store data on a computer hard drive. This increases the risk of data loss.

FIGURES OF THE PROJECT-



SIGN IN AND SIGN UP PAGE (HOME PAGE)

LMS x +

localhost/lmsjhulan/admin/index.php

ADMIN

Home
Messages
Manage Students
All Books
Add Books
Issue/Return Requests
Book Recommendations
Currently Issued Books
Logout

Admin

Email ID: admin@gmail.com

Mobile number: 123456789

Edit Details

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27°C Haze 18:36 13-12-2022

ADMIN HOME PAGE

LMS x +

localhost/lmsjhulan/admin/message.php

ADMIN

Home
Messages
Manage Students
All Books
Add Books
Issue/Return Requests
Book Recommendations
Currently Issued Books
Logout

Send a message

Receiver Roll No:

Message:

Add Message

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27°C Haze 18:38 13-12-2022

ADMIN MESSAGE SENDING PAGE

LMS

Search: Enter Name/ID of Book

Book Id	Book name	Availability	
1	OS	0	Details Edit
2	DBMS	0	Details Edit
3	TOC	4	Details Edit
4	TOC	1	Details Edit
5	DAA	0	Details Edit
6	DSA	10	Details Edit
7	Discrete Structures	8	Details Edit
8	Database Processing	12	Details Edit
9	Computer System Architecture	4	Details Edit
10	C: How to program	4	Details Edit
11	Atomic and Nuclear Systems	13	Details Edit
12	The PlayBook	12	Details Edit
13	General Theory of Relativity	6	Details Edit

Type here to search 27°C Haze ENG 13-12-2022 18:39

ADMIN ALL BOOKS PAGE

LMS

Add Book

Book Title	<input type="text" value="Title"/>
Author	<input type="text"/> <input type="text"/> <input type="text"/>
Publisher	<input type="text"/>
Year	<input type="text"/>
Number of Copies	<input type="text" value="Number of Copies"/>

[Add Book](#)

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Type here to search 27°C Haze ENG 13-12-2022 18:40

ADMIN ADD BOOKS PAGE

LMS



[Home](#)

[Messages](#)

[Manage Students](#)

[All Books](#)

[Add Books](#)

[Issue/Return Requests](#)

[Book Recommendations](#)

[Currently Issued Books](#)

[Logout](#)

Book Name	Description	Recommended By
operating system	3rd_sem_b.sc computer science	B160158CS
artificial intelligence	5th semester b.sc computer science	B160158CS
Operating System	An operating system (OS) is system software that manages computer hardware and software resources and provides common services for computer programs.	B160001CS
Networks	A computer network, or data network, is a digital telecommunications network which allows nodes to share resources. In computer networks, computing devices exchange data with each other using connections (data links) between nodes.	B160999CS
String Theory	In physics, string theory is a theoretical framework in which the point-like particles of particle physics are replaced by one-dimensional objects called strings. It describes how these strings propagate through space and interact with each other.	B160777CS
system security	fifth semester examination b.sc computer science	B160777CS

[Add a Book](#)

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ADMIN BOOK RECOMMENDATION PAGE

LMS



[Home](#)

[Messages](#)

[Manage Students](#)

[All Books](#)

[Add Books](#)

[Issue/Return Requests](#)

[Book Recommendations](#)

[Currently Issued Books](#)

[Logout](#)

Search:

Name	Roll No.	Email id	
priya	b160001cs	priya@gmail.com	Details
Adya	b160002cs	adya@yahoo.com	Details
Aliya	b160003ch	aliya@hotmail.com	Details
asha	b160004me	asha@gmail.com	Details
barun	b160005ce	barun@gmail.com	Details
Aparna	b160006cs	aparna@gmail.com	Details
Goli	b160007cs	goli@yahoo.com	Details
Ben	b160008cs	ben10@hotmail.com	Details
Ashnoor	b160009cs	ashnoor@yahoo.com	Details
Hanya	b160010cs	hanya@hotmail.com	Details
Gwen	b160011ch	gwen@yahoo.com	Details
Kartik	b160012me	kartik11@hotmail.com	Details
Misti	b160013ee	misti@mail.com	Details

Type here to search

27°C Haze 18:49 13-12-2022

ADMIN MANAGE STUDENT PAGE

LMS

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ADMIN REQUESTS PAGE

LMS

Issue Requests

Roll Number	Book Id	Book Name	Availability	
B160003CH	14	Heat and Thermodynamics	9	<button>Accept</button> <button>Reject</button>
B160001CS	12	The PlayBook	12	<button>Accept</button> <button>Reject</button>
B160511CS	7	Discrete Structures	8	<button>Accept</button> <button>Reject</button>
B160158CS	4	TOC	1	<button>Accept</button> <button>Reject</button>
B160158CS	3	TOC	4	<button>Accept</button> <button>Reject</button>
B160511CS	17	Operating System	7	<button>Accept</button> <button>Reject</button>
B160158CS	17	Operating System	7	<button>Accept</button> <button>Reject</button>
B160632CS	17	Operating System	7	<button>Accept</button> <button>Reject</button>
B160001CS	3	TOC	4	<button>Accept</button> <button>Reject</button>
SH20053	11	Atomic and Nuclear Systems	13	<button>Accept</button> <button>Reject</button>

ADMIN ISSUE REQUEST PAGE

LMS

localhost/lmsjhulan/admin/renew_requests.php

Renew Requests

Roll Number	Book Id	Book Name	Renewals Left	
B160001CS	11	Atomic and Nuclear Systems	1	<button>Accept</button> <button>Reject</button>
B160158CS	9	Computer System Architecture	1	<button>Accept</button> <button>Reject</button>
B160158CS	18	Theory of Machines	1	<button>Accept</button> <button>Reject</button>
SH20053	7	Discrete Structures	1	<button>Accept</button> <button>Reject</button>

Home
Messages
Manage Students
All Books
Add Books
Issue/Return Requests
Book Recommendations
Currently Issued Books
Logout

Issue Requests Renew Request Return Requests

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Windows Type here to search 27°C Haze 18:42 13-12-2022

ADMIN RENEW REQUEST PAGE

LMS

localhost/lmsjhulan/admin/renew_requests.php

Renew Requests

Roll Number	Book Id	Book Name	Dues	
B160003CH	9	Computer System Architecture	1450	<button>Accept</button>
B160158CS	1	OS	975	<button>Accept</button>
B160158CS	18	Theory of Machines	1450	<button>Accept</button>
B160511CS	11	Atomic and Nuclear Systems	1390	<button>Accept</button>
SH20053	7	Discrete Structures	0	<button>Accept</button>

Home
Messages
Manage Students
All Books
Add Books
Issue/Return Requests
Book Recommendations
Currently Issued Books
Logout

Issue Requests Renew Request Return Requests

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Windows Type here to search 27°C Haze 18:43 13-12-2022

ADMIN RETURN REQUEST PAGE

LMS

localhost / 127.0.0.1 / lms / record.php

LMS

Home

Messages

Manage Students

All Books

Add Books

Issue/Return Requests

Book Recommendations

Currently Issued Books

Logout

Search: Enter Roll No of Student/Book Name/Book Id.

Roll No	Book id	Book name	Issue Date	Due date
B160001CS	9	Computer System Architecture	2022-10-25	2022-12-24
B160001CS	11	Atomic and Nuclear Systems	2022-10-25	2022-12-24
B160003CH	9	Computer System Architecture	2022-10-25	2022-12-24
B160011CH	10	C: How to program	2022-10-25	2022-12-24
B160011CH	17	Operating System	2022-10-25	2022-12-24
B160158CS	7	Discrete Structures	2022-12-12	2023-02-10
B160632CS	15	Machine Design	2022-10-25	2022-12-24
SH20053	7	Discrete Structures	2022-12-12	2023-02-10

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localhost / lmsjhulan / admin / message.php

Type here to search

27°C Haze 19:11 13-12-2022

ADMIN CURRENTLY ISSUED BOOKS

LMS

localhost / 127.0.0.1 / lms / user

STUDENT

Home

Messages

All Books

Previously Borrowed Books

Recommend Books

Currently Issued Books

Logout

Ronnie Das

Email ID: pritimistimodal@gmail.com

Mobile number: 9475382630

Edit Details

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Type here to search

27°C Haze 19:14 13-12-2022

STUDENT_HOME_PAGE

LMS

Message

	Date	Time
Your request for Issue of BookId: 7 has been accepted	2022-12-12	13:08:36

Home
Messages
All Books
Previously Borrowed Books
Recommend Books
Currently Issued Books
Logout

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STUDENT MESSAGE PAGE

LMS

Reccomend a Book

Book Title

Description

Submit Recommendation

Home
Messages
All Books
Previously Borrowed Books
Recommend Books
Currently Issued Books
Logout

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STUDENT BOOK RECOMMENDATION PAGE

LMS

Search: Enter Name/ID of Book

Book id	Book name	Availability	
11	Atomic and Nuclear Systems	AVAILABLE	Details Issue
12	The Playbook	AVAILABLE	Details Issue
8	Database Processing	AVAILABLE	Details Issue
18	Theory of Machines	AVAILABLE	Details Issue
6	DSA	AVAILABLE	Details Issue
14	Heat and Thermodynamics	AVAILABLE	Details Issue
7	Discrete Structures	AVAILABLE	Details Issue
16	Nuclear Physics	AVAILABLE	Details Issue
17	Operating System	AVAILABLE	Details Issue
13	General Theory of Relativity	AVAILABLE	Details Issue
15	Machine Design	AVAILABLE	Details Issue
10	C: How to program	AVAILABLE	Details Issue
9	Computer System Architecture	AVAILABLE	Details Issue

Type here to search

27°C Haze 19:16 13-12-2022

STUDENT ALL BOOKS PAGE

LMS

Search: Enter Book Name/Book Id.

Book id	Book name	Issue Date	Due date	
7	Discrete Structures	2022-12-12	2023-02-10	Renew Return

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STUDENT CURRENT ISSUED BOOKS PAGE

CONCLUSION

This website provides a computerized version of library management system which will benefit the students as well as the staff of the library. It makes entire process online where student can search books, staff can generate reports and do book transactions. It also has a facility for student login where student can login and can see status of books issued as well