

# **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

| <b>ADMIN</b> |
|--------------|
| ID           |
| FULLNAME     |
| ADMINEMAIL   |
| USERNAME     |
| PASSWORD     |
| UPDATIONDATE |

| <b>TBLEISSUEDBOOKDETAILS</b> |
|------------------------------|
| ID                           |
| BOOKID                       |
| STUDENTID                    |
| ISSUESDATE                   |
| RETURNDATE                   |
| RETURNSTATUS                 |
| FINE                         |

| <b>TBLAUTHORS</b> |
|-------------------|
| ID                |
| AUTHORNAME        |
| CREATIONDATE      |
| UPDATIONDATE      |

---

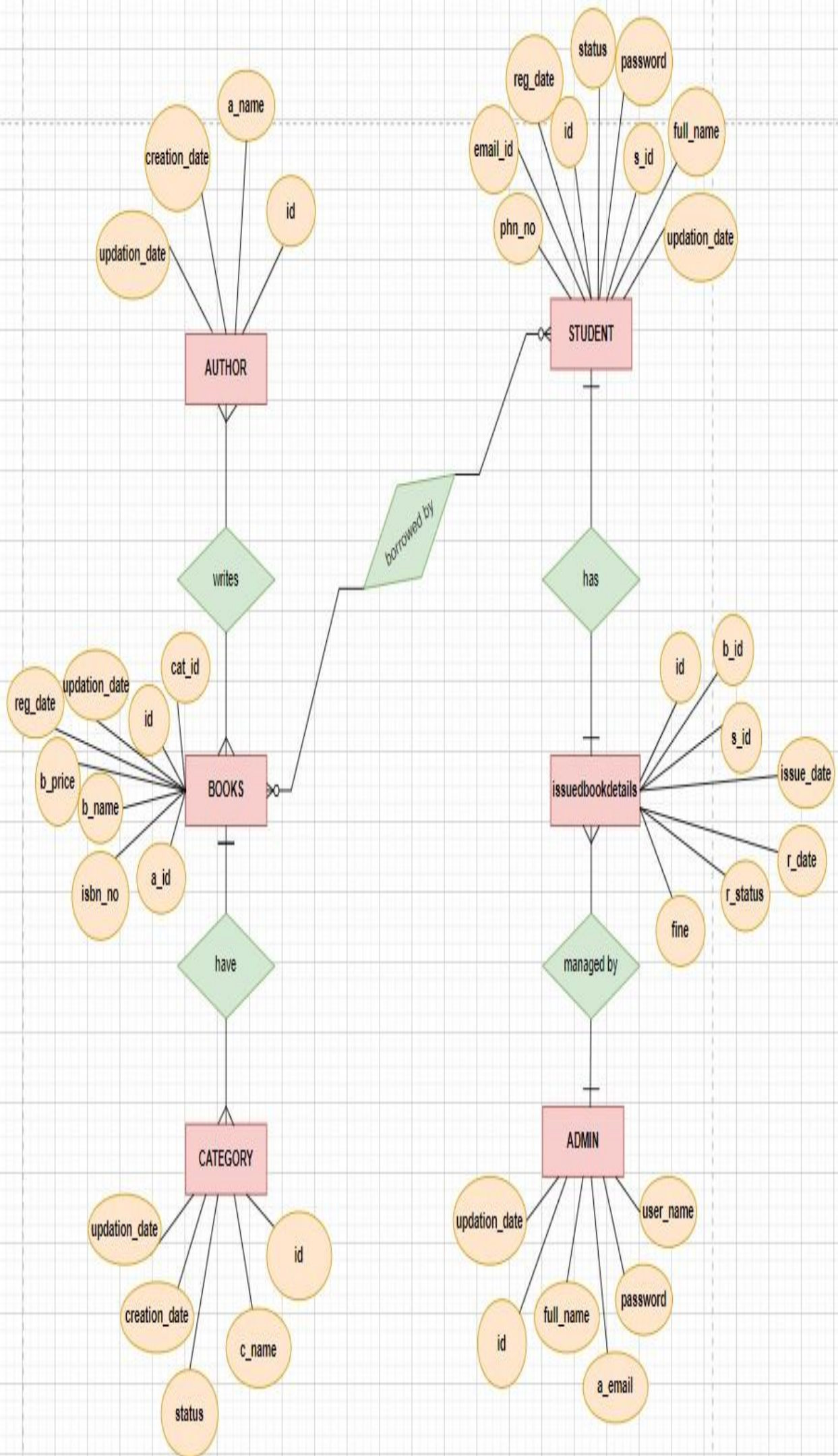
## **Attributes Of Each Entity**

---

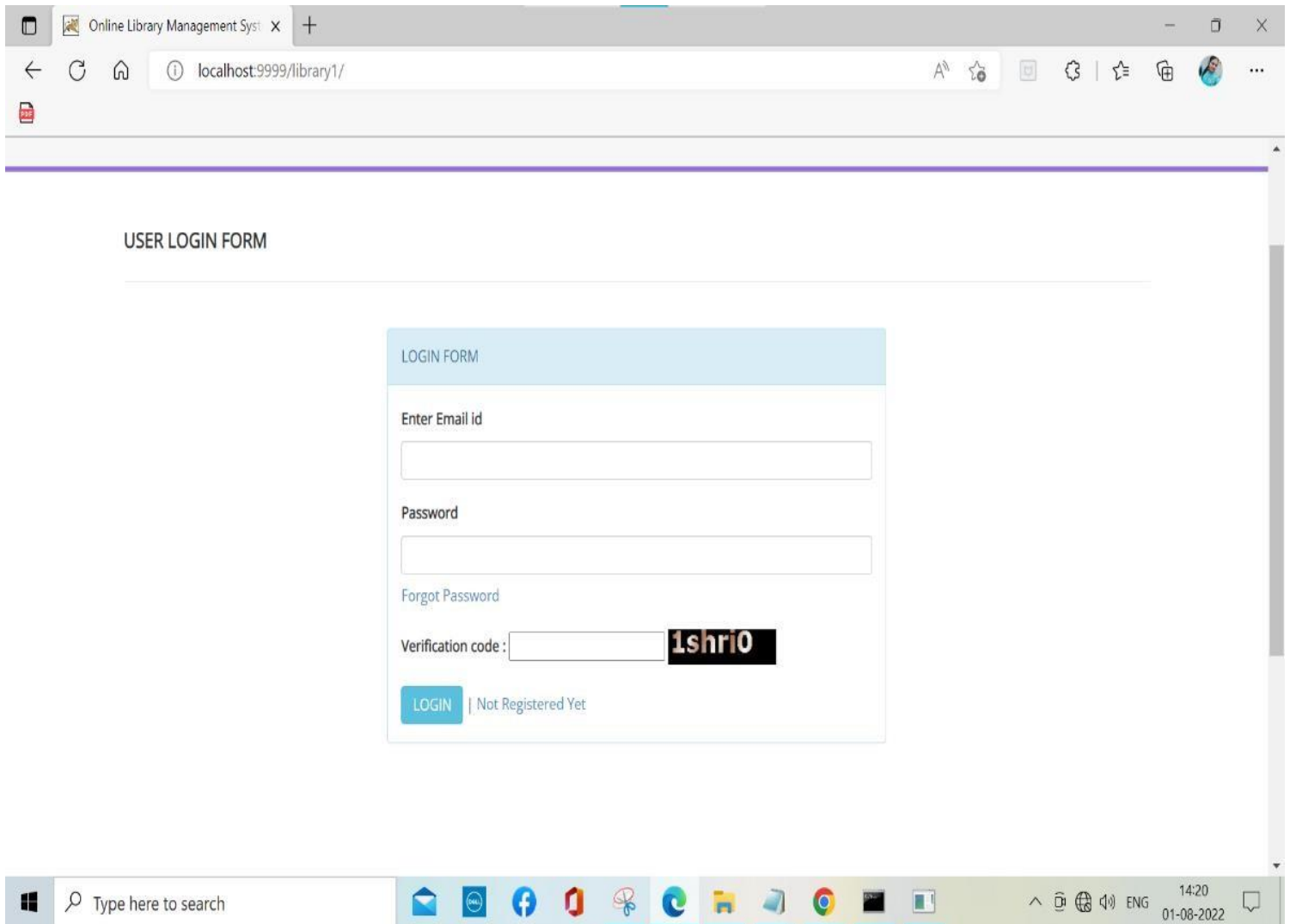
| <b>TBLSTUDENTS</b> |
|--------------------|
| ID                 |
| STUDENTID          |
| FULLNAME           |
| EMAILID            |
| MOBILENUMBER       |
| PASSWORD           |
| STATUS             |
| REGDATE            |
| UPDATIONDATE       |

| <b>TBLBOOKS</b> |
|-----------------|
| ID              |
| BOOKNAME        |
| CATID           |
| AUTHORID        |
| ISBNNUMBER      |
| BOOKPRICE       |
| REGDATE         |
| UPDATIONDATE    |

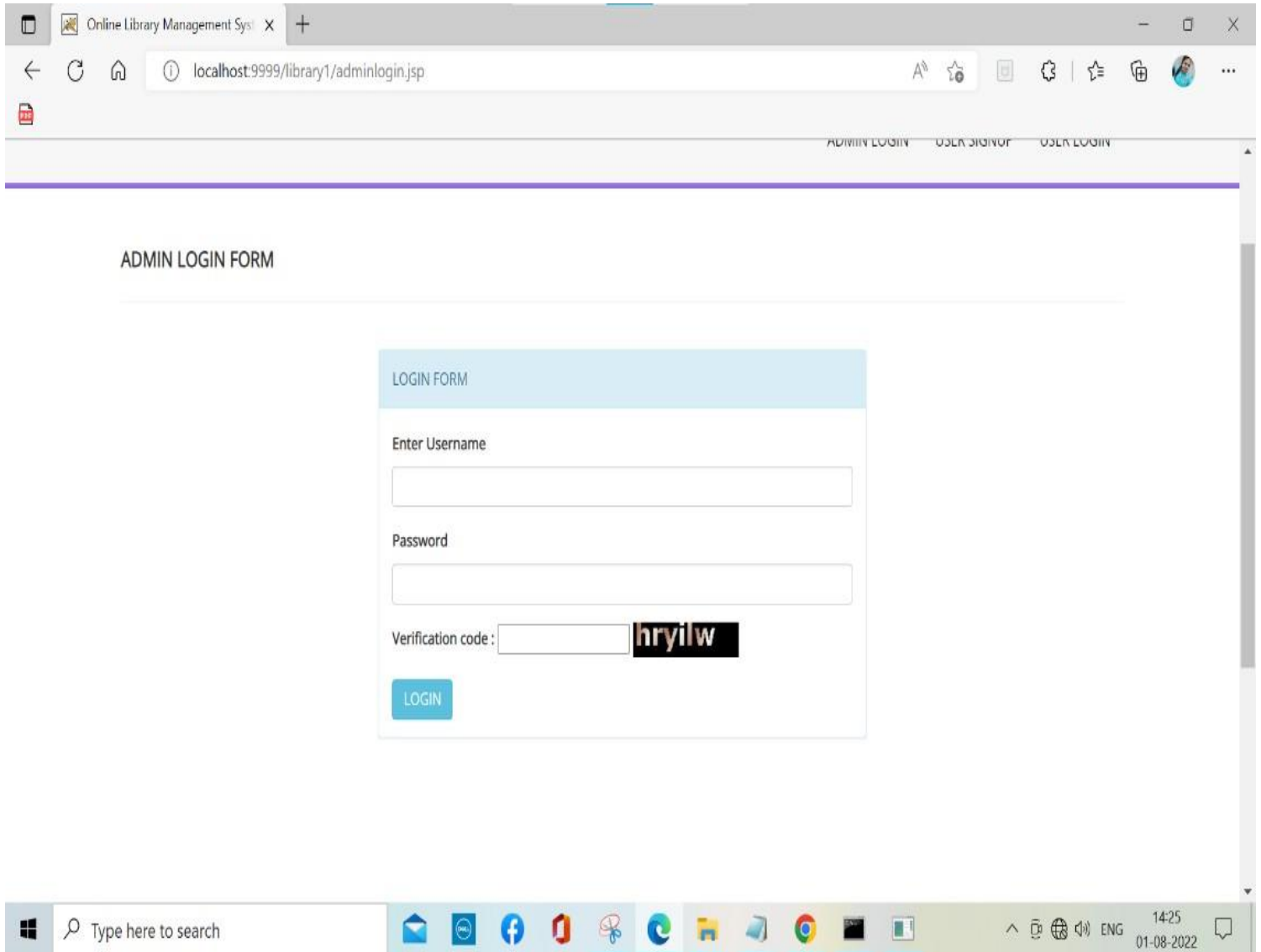
| <b>TBLCATEGORY</b> |
|--------------------|
| ID                 |
| CATEGORYNAME       |
| STATUS             |
| CREATIONDATE       |
| UPDATIONDATE       |



# User login Form:



# Admin Login Form:



# User Sign Up

Online Library Management Syst X

localhost:9999/library1/signup.jsp

## 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



Online Library Management Syst X +

localhost:9999/library1/dashboard.jsp

 **Library Management System** [LOG ME OUT](#)

DASHBOARD ACCOUNT ISSUED BOOKS

USER DASHBOARD

|   |  |
|---|--|
| <br>3<br>Book Issued | <br>1<br>Books Not Returned Yet |
|---|--|


Type here to search

14:27  
01-08-2022

# Manage Issue Book

Online Library Management Sys: x

localhost:9999/library1/issued-books.jsp

 **Library Management System** [LOG ME OUT](#)

DASHBOARD ACCOUNT **ISSUED BOOKS**

### MANAGE ISSUED BOOKS

Issued Books

10 records per page Search:

| # | 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            |

Showing 1 to 3 of 3 entries

Previous **1** Next

localhost:9999/library1/issued-books.jsp#

Type here to search

14:27 01-08-2022

# Admin Dashboard

The screenshot displays the Admin Dashboard of an Online Library Management System. The browser address bar shows the URL `localhost:9999/library1/admin/dashboard.jsp`. The dashboard features a header with the system name and a navigation menu. The main content area contains six data cards representing various library metrics.

| Metric                       | Value |
|------------------------------|-------|
| Books Listed                 | 3     |
| Times Book Issued            | 6     |
| Times Books Returned         | 2     |
| Registered Users             | 6     |
| Other Metric (Person Icon)   | 7     |
| Other Metric (Document Icon) | 6     |

The navigation menu includes: DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, and CHANGE PASSWORD. A 'LOG ME OUT' button is located in the top right corner.



# Manage Register Student

Online Library Management System

localhost:9999/library1/admin/reg-students.jsp

## Library Management System

LOG ME OUT

DASHBOARD CATEGORIES ▾ AUTHORS ▾ BOOKS ▾ ISSUE BOOKS ▾ REG STUDENTS CHANGE PASSWORD

### MANAGE REG STUDENTS

Reg Students

10 records per page Search:

| # | 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 |

Type here to search

14:29 01-08-2022

# Manage Issue Book

Online Library Management System

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

## MANAGE ISSUED BOOK

Issued Books

10 records per page

Search:

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

Showing 1 to 5 of 5 entries

Previous 1 Next

Type here to search

14:30 01-08-2022

## ❖ 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-**

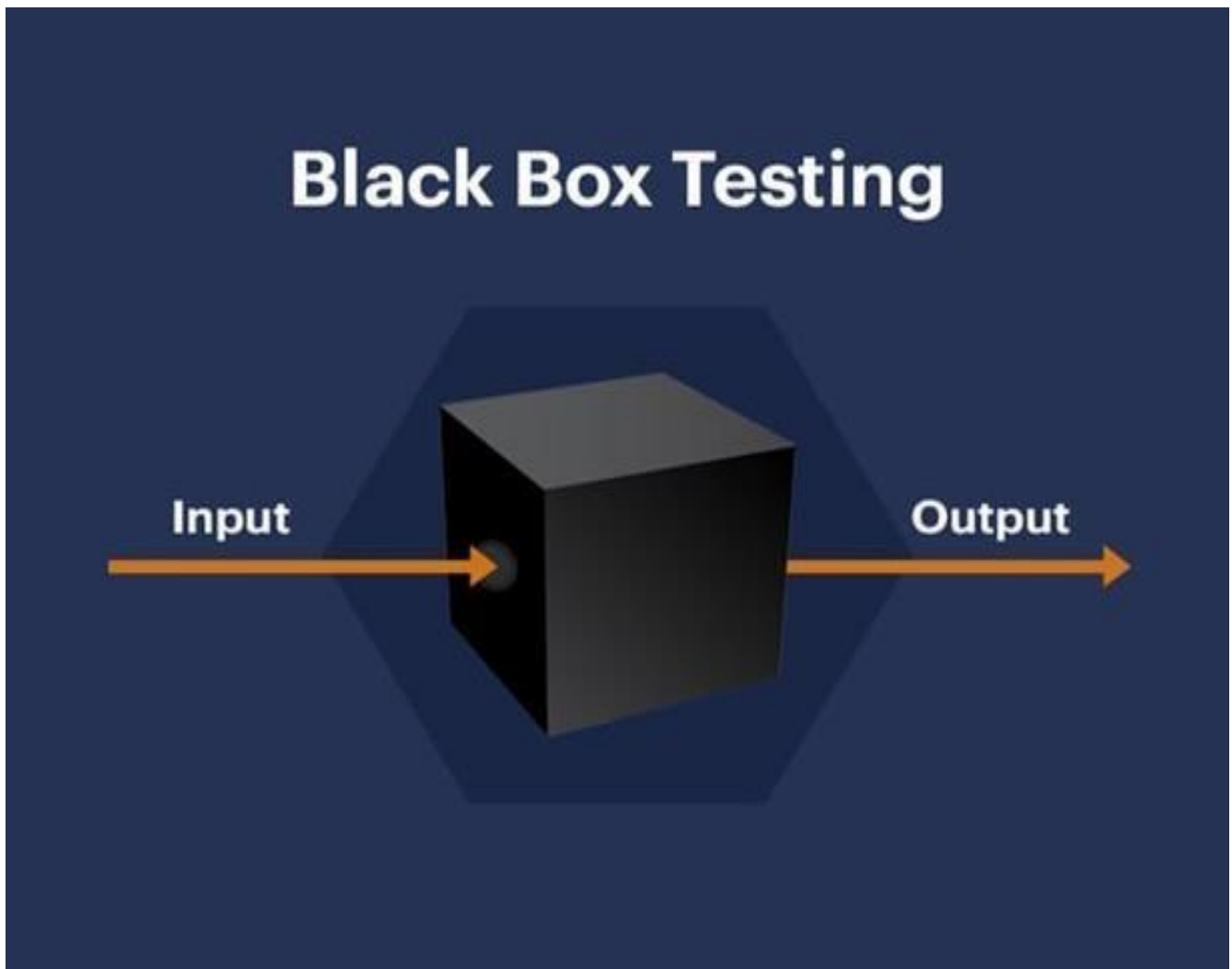
**Here we apply two kind of testing**

➤ 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.

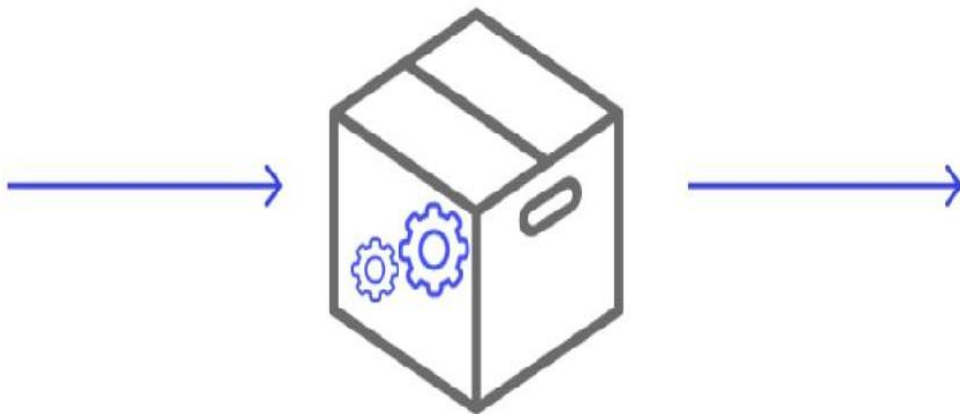


- **White box testing:**

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](http://www.studentdocu.com)
- [www.academia.edu](http://www.academia.edu)
- [www.researchgate.net](http://www.researchgate.net)
- [www.youtube.com](http://www.youtube.com)
- [www.tutorialpoint.com](http://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







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# 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.

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



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  - 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

ORACLE®



MySQL

## Software specifications:

- HTML
- My SQL
- PHP
- ORACLE DATABASE

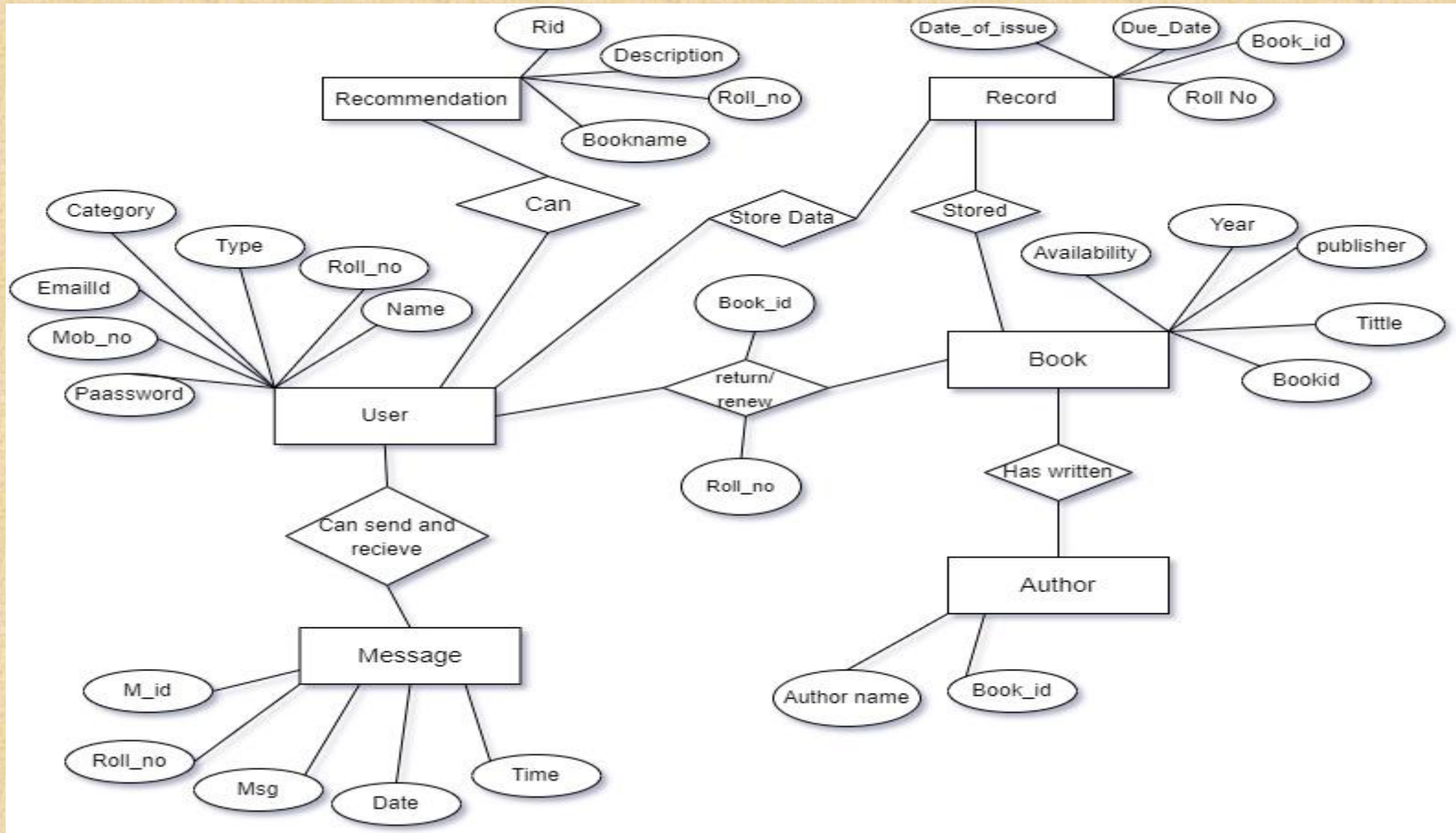


## □ Working Methodology:

- LEVEL 0 DFD:



# E R DIAGRAM

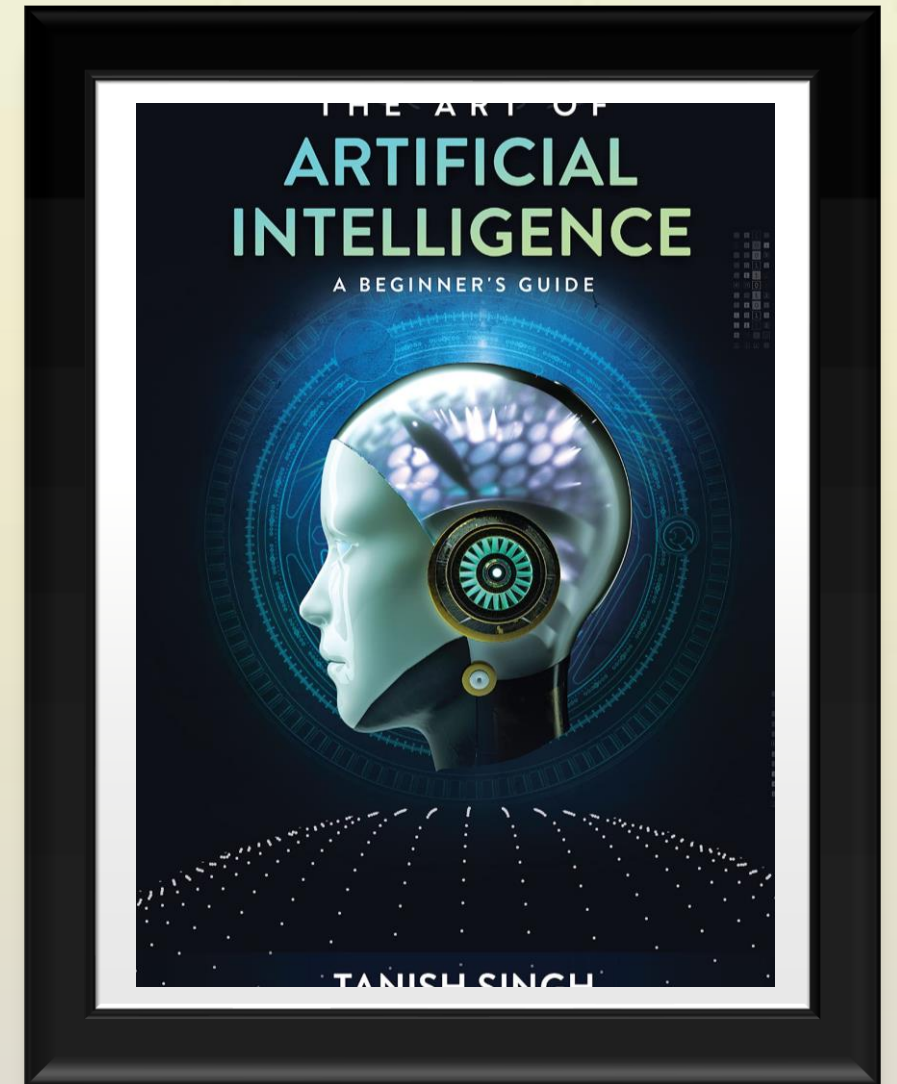






# MODULES

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



# DWC COMPUTER SCIENCE DEPARTMENT LIBRARY

## Sign In

RollNo

Password

Sign In

## Sign Up

Name

Email

Password

Phone Number

Roll Number

General

Sign Up

# LMS



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

Search:

Search

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



- 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](#)



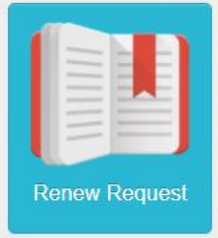
# LMS



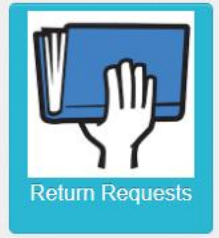
- Home
- Messages
- Manage Students
- All Books
- Add Books
- Issue/Return Requests
- Book Recommendations
- Currently Issued Books
- Logout



Issue Requests



Renew Request



Return Requests



## □ Bibliography:

- [www.java.sun.com/docs/books/tutorial](http://www.java.sun.com/docs/books/tutorial)
- Wrox professional java
- [www.javatoint.com](http://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](mailto: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 :-** 2<sup>nd</sup> year

**Submission date :-**



## Group Profile

**Project name: Website For Online Medical System**

**Course Name: Web Programming**

**Course Code: BSCHCOSSE402**

| Sl no. | Name                | Reg No.        |
|--------|---------------------|----------------|
| 1      | Pritilata Das Modak | KNU20106001254 |
| 2      | Sudipta Pobi        | KNU20106001404 |
| 3      | Swati Gorai         | KNU20106001334 |

# INDEX



1. Problem introduction
2. Primary reason to choose the topic
3. Main object
4. Scope of the project
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6. Design
  - Entity table
  - DFD (Data Flow Diagram)
  - ER Diagram
7. TESTING
8. LIMITATION
9. BIBLIOGRAPHY
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 TOPPIC

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 Canter**, 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 REQUIRTMENT

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)

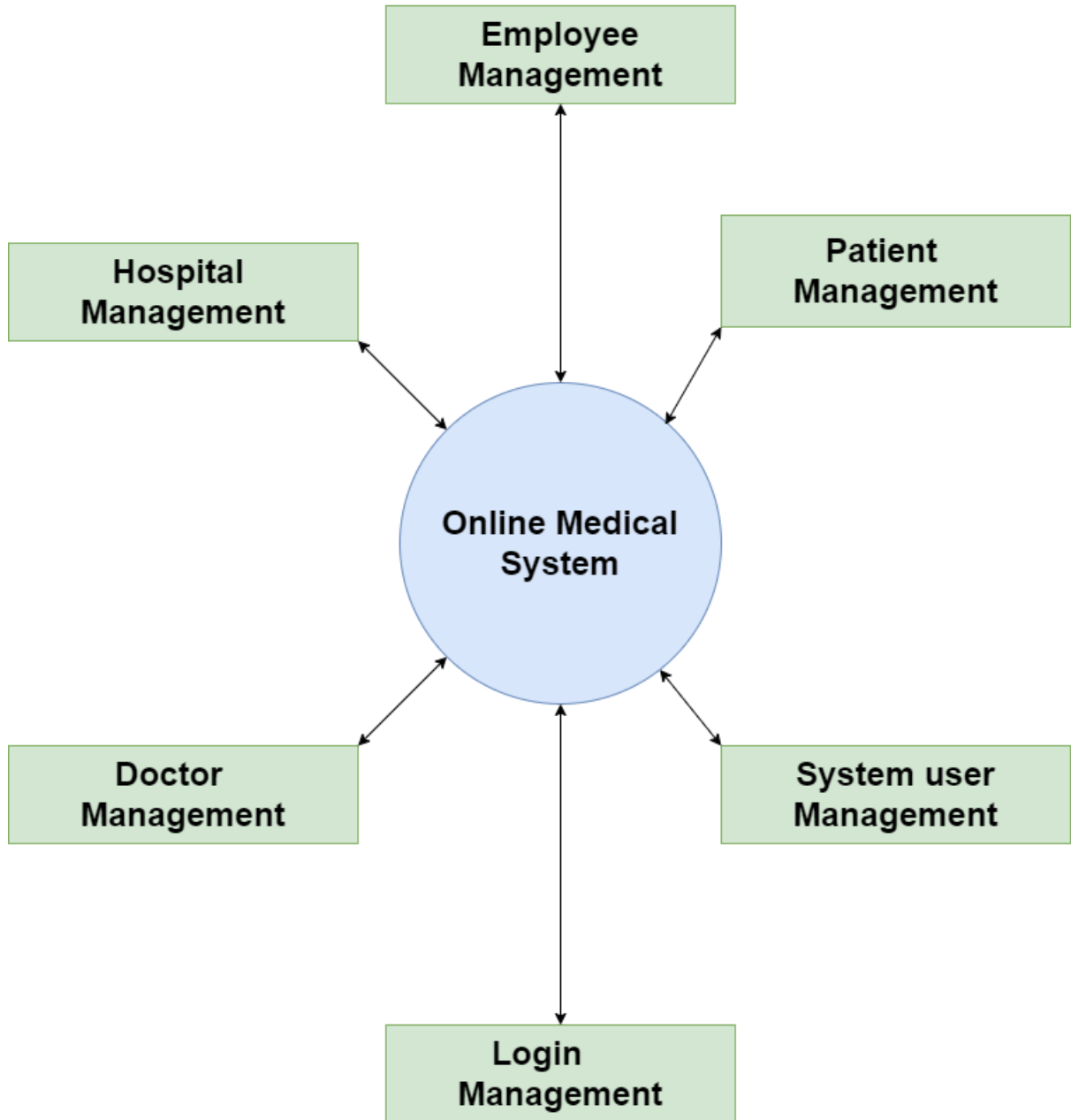
Doctor(doc.id,doc.name,doc.qualification,doc.fees,doc.emailid,doc.add)

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)

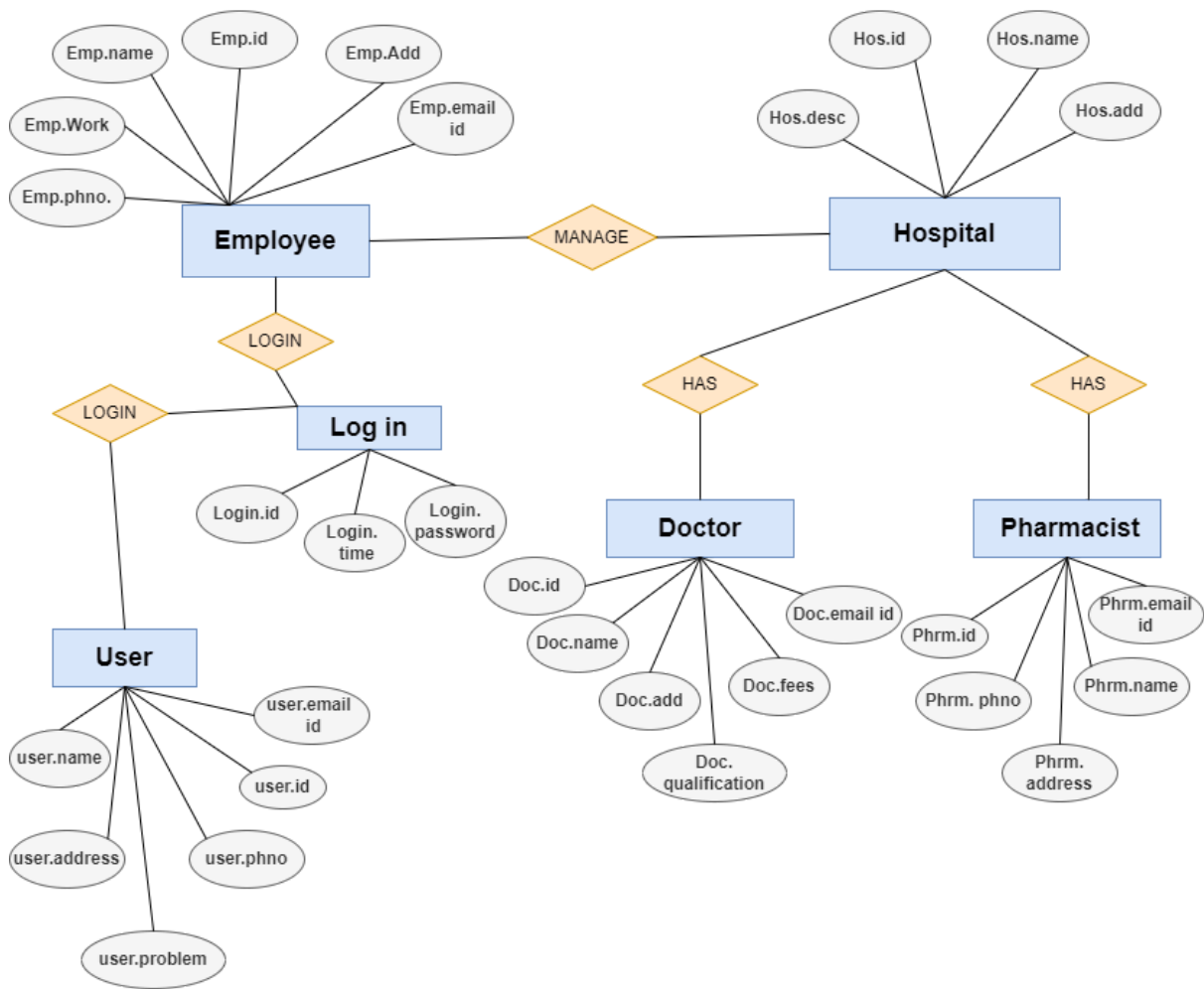
## DFD(DATA FLOW DAIGRAM



**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 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 is developed unable to fulfill client's requirements. So, this project also has some limitations.

## BIBRIOGRAPHY

### Web Reference:

- [www.google.com](http://www.google.com)
- [www.w3schools.com](http://www.w3schools.com)
- [www.wikipedia.com](http://www.wikipedia.com)
- [www.scribd.com](http://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
- Processer: Ryzen3 or Intel core i3

## SOFTWARE

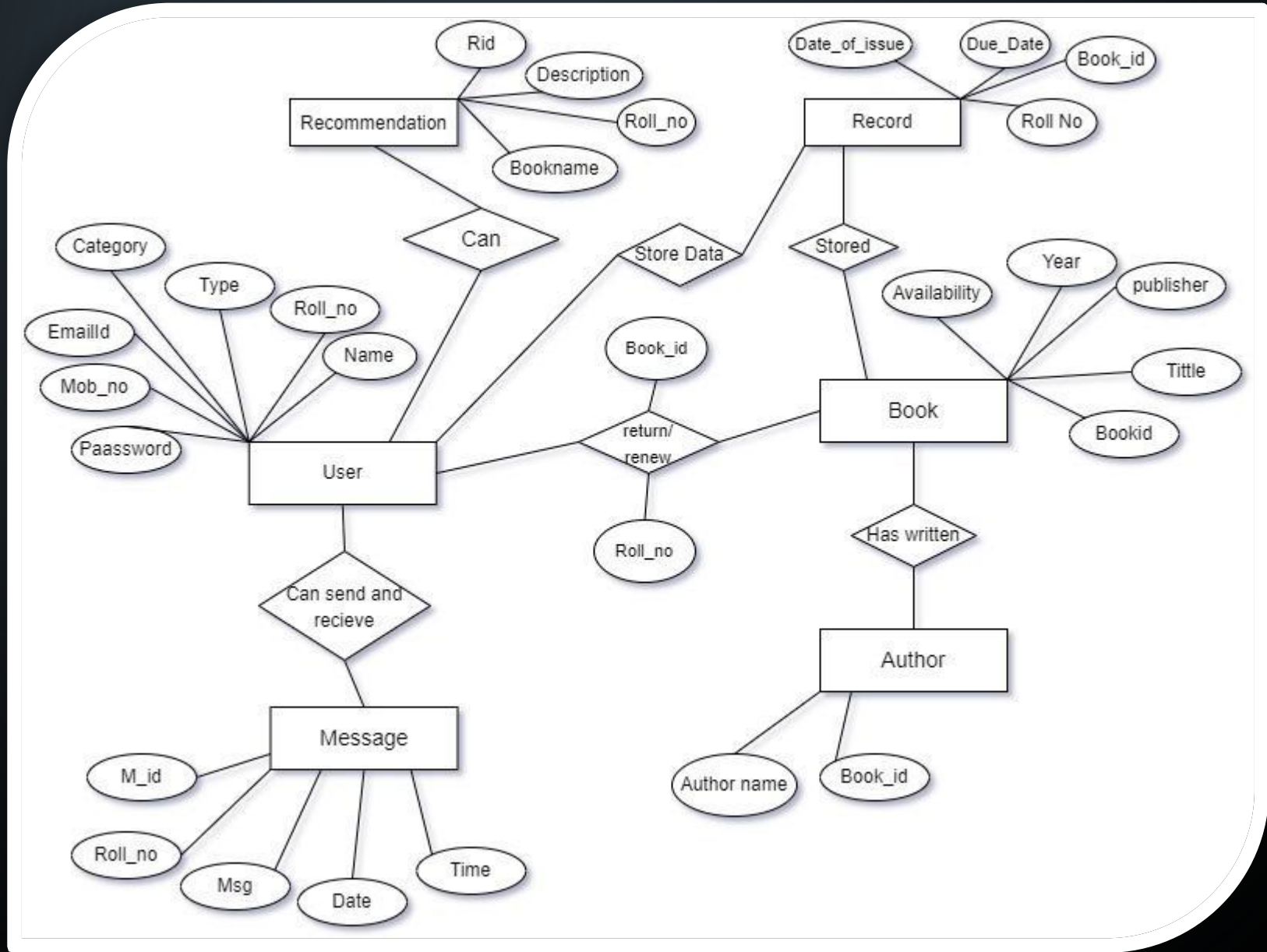
- Html
- Css
- JavaScript
- Php
- My Sql

# DATA FLOW DIAGRAM

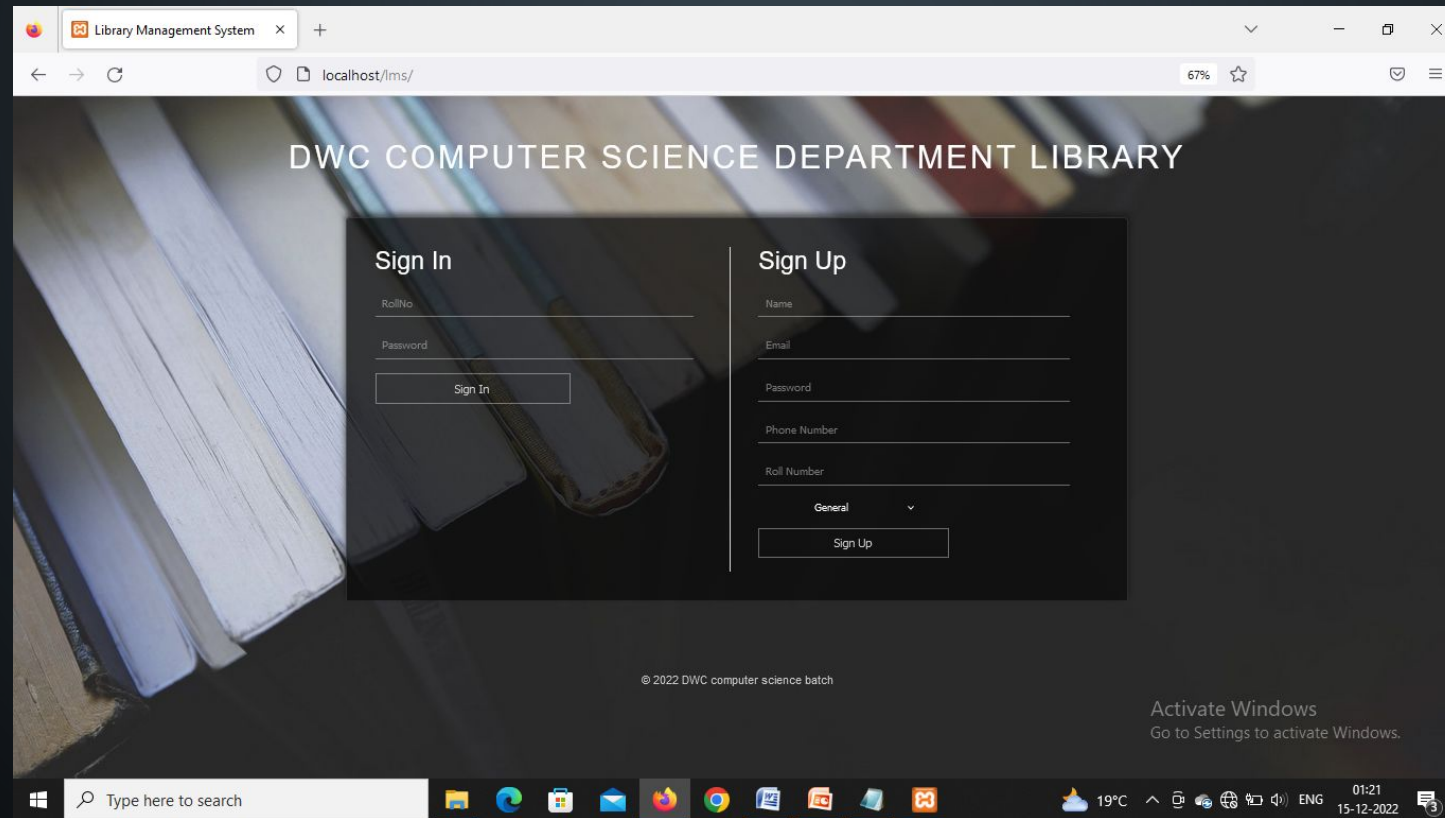




# ERD

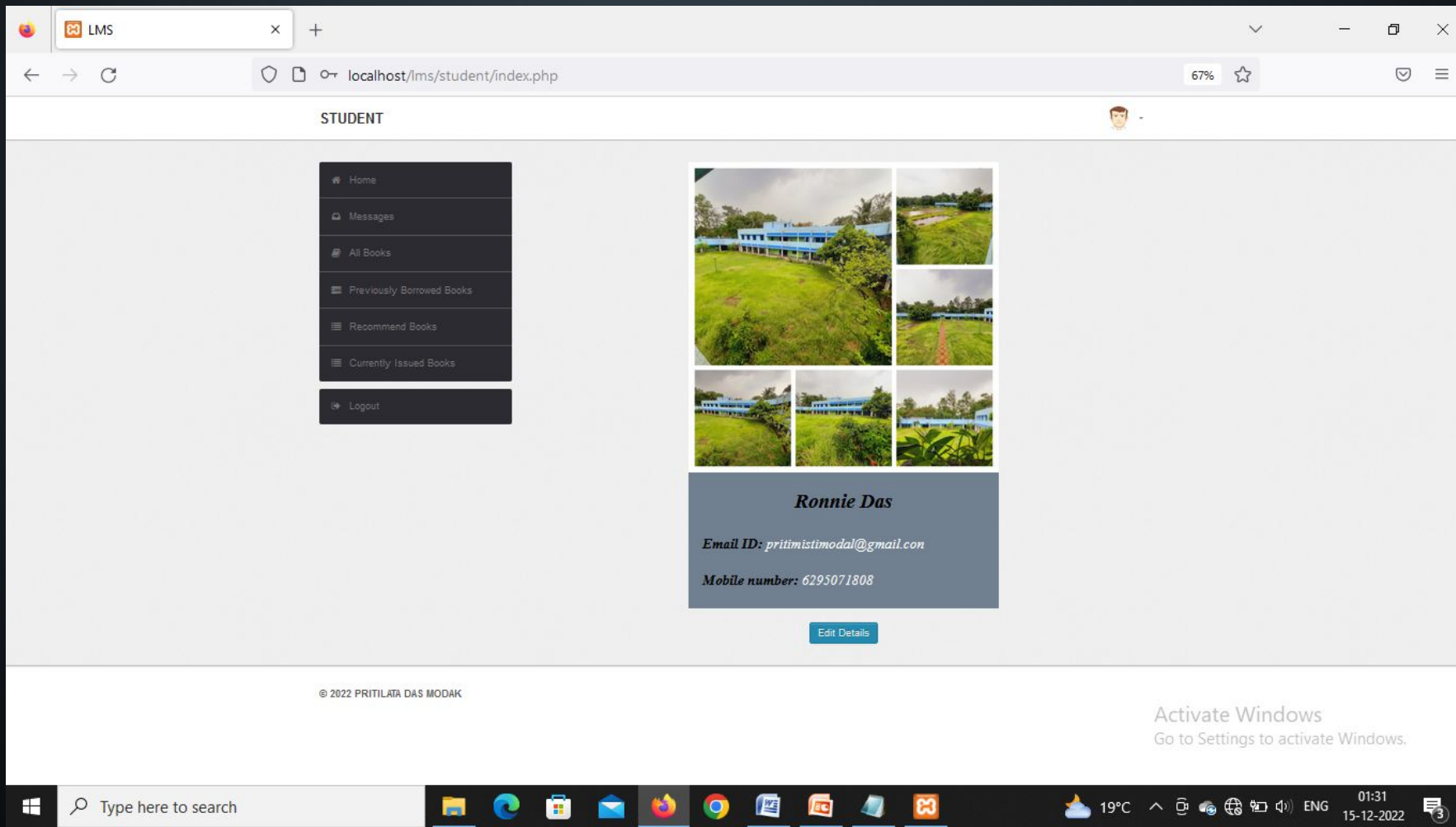


# SYSTEM IMPLEMENTATION



## 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%

LMS

Search: Enter Name/ID of Book Search

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

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

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/current.php

67%

LMS

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

Search:  Search

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

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localhost/lms/student/current.php

Activate Windows  
Go to Settings to activate Windows.

Type here to search

19°C 01:53 15-12-2022

# CURRENTLY ISSUE BOOK

LMS

Search:  Search

| 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.

**PRIVOUSLY BORROWED BOOK/HISTORY**

LMS

localhost/lms/student/message.php

LMS

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

| 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.

Type here to search

19°C 01:58 15-12-2022

# MESSAGES



The screenshot shows a web browser window with the following details:

- Browser Tabs:** localhost / 127.0.0.1 / lms / recc X, LMS
- Address Bar:** localhost/lms/student/recommendations.php
- Page Title:** LMS
- Navigation Menu (Left):**
  - Home
  - Messages
  - All Books
  - Previously Borrowed Books
  - Recommend Books
  - Currently Issued Books
  - Logout
- Form (Right):**
  - Reccomend a Book**
  - Book Title:**
  - Description:**
  -
- Footer:** © 2022 PRITILATA DAS MODAK
- System Tray (Bottom):** Windows logo, search bar (Type here to search), taskbar icons (File Explorer, Edge, Mail, Firefox, Chrome, Word, PowerPoint, OneDrive), system tray (19°C, network, volume, ENG, 02:06, 15-12-2022, notifications).
- Watermark:** Activate Windows. Go to Settings to activate Windows.

# 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.

A decorative graphic on the left side of the slide, consisting of a network of light blue lines and circles that resemble a circuit board or a data network. The lines are vertical and horizontal, with some branching out, and the circles are small and white, connected to the lines.

# 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.

The image features a dark blue background with white, stylized circuit board traces in the corners. These traces form various geometric shapes and paths, ending in small circles, resembling a network or data flow diagram. The central text is rendered in a clean, white, sans-serif font.

THANK YOU



# PROJECT REPORT

# On Library Management System

This project is developed by-

PRITILATA DASMOKAK  
ARPITA CHAKRABORTY  
JHULAN KARMAKAR  
MAITREYE DAS  
SUDIPTA POBI

Durgapur Women's College  
B.SC. 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

|                                       |   |
|---------------------------------------|---|
| <b>Save cost-</b>                     | After computerized system is implemented less human force will be required to maintain the library thus reducing the overall cost |
| <b>Save time-</b>                     | Librarian is able to search record by using few clicks of mouse and few search keywords thus saving his valuable time             |
| <b>Option of online Notice board-</b> | Librarian will be able to provide a detailed description of workshops going in the college as well as in nearby college           |
| <b>Lecture Notes-</b>                 | 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 MY SQL

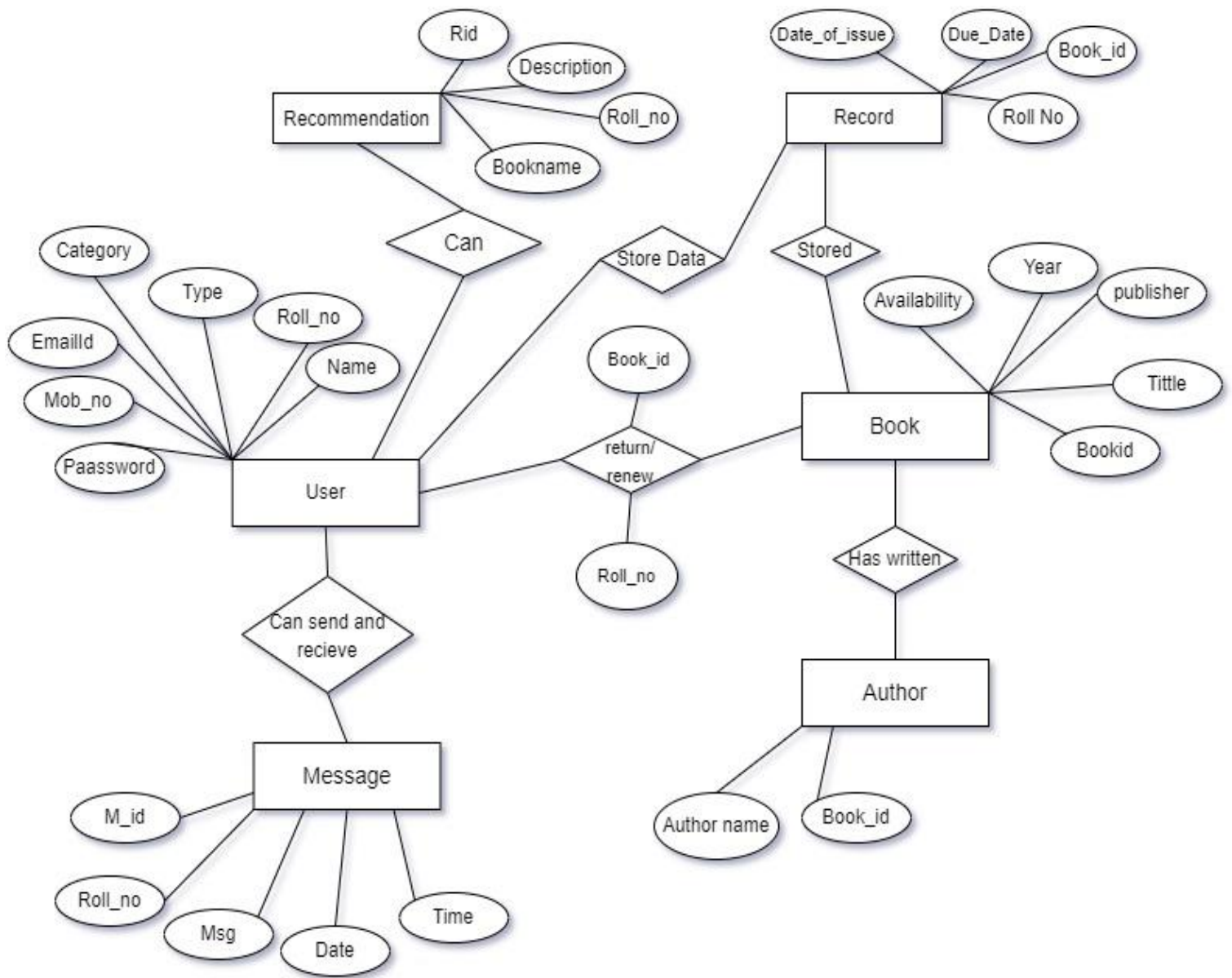
## WORKING METHODOLOGY

- LEVEL 0 DFD





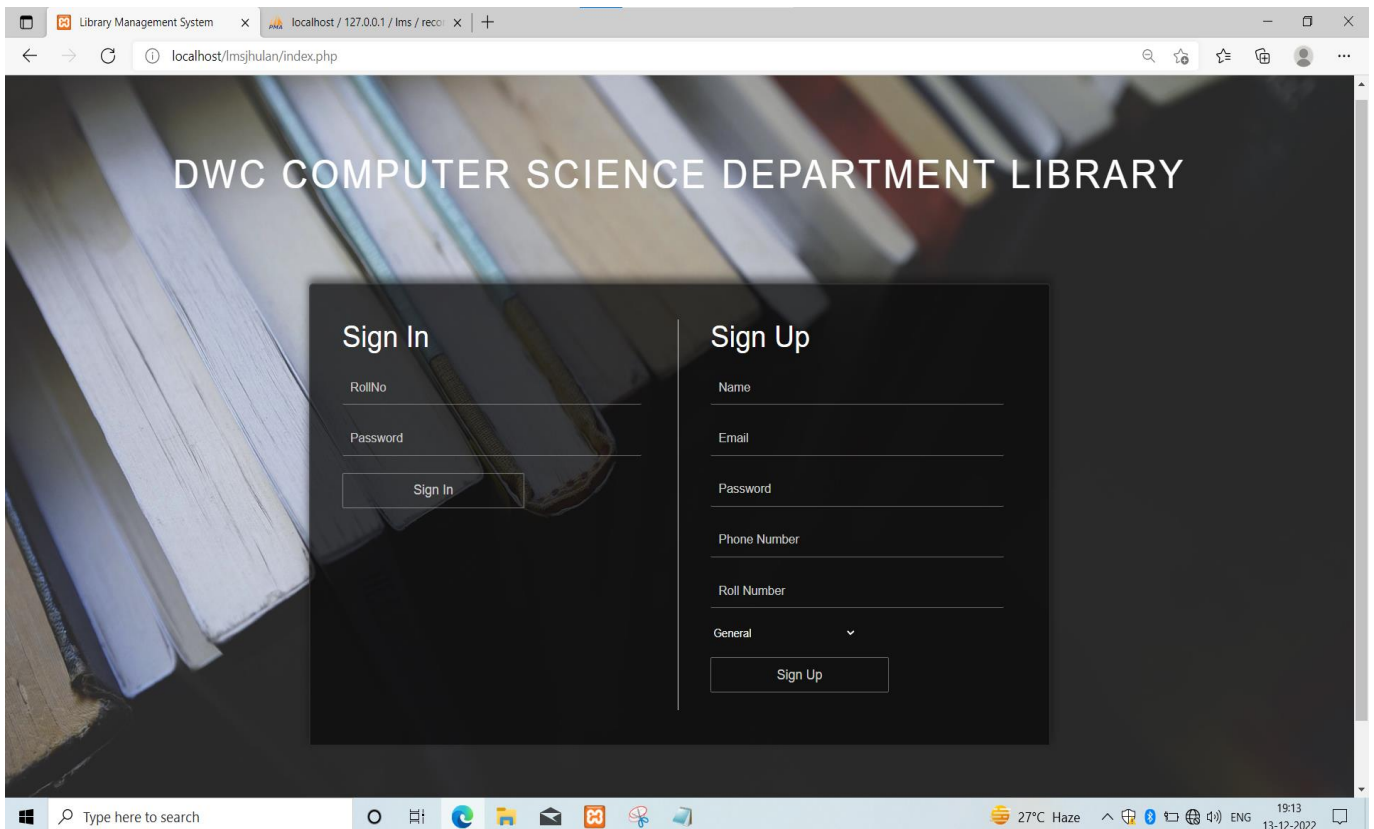
## ERD Diagram of the project:-



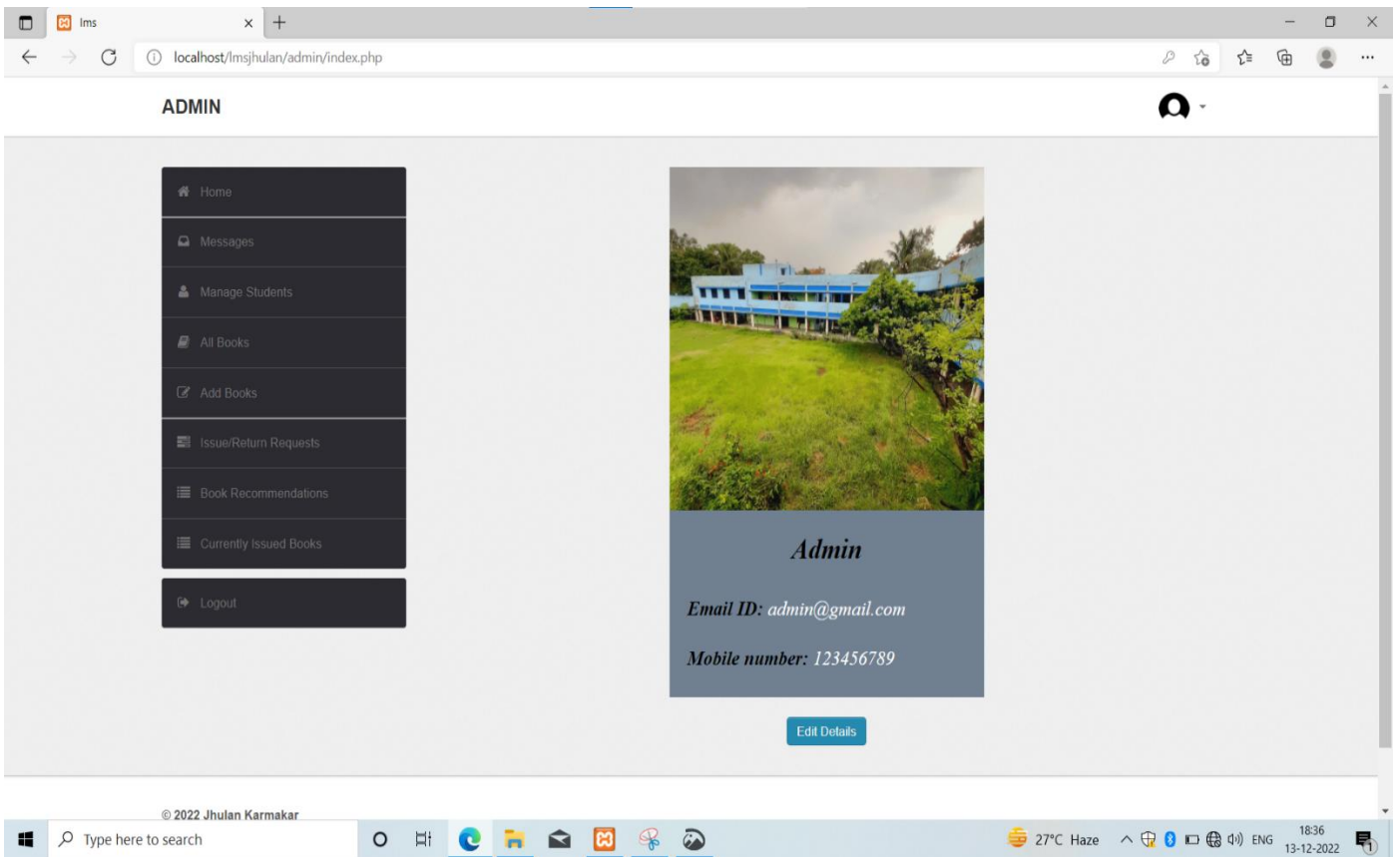
## LIMITATIONS :-

- **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.

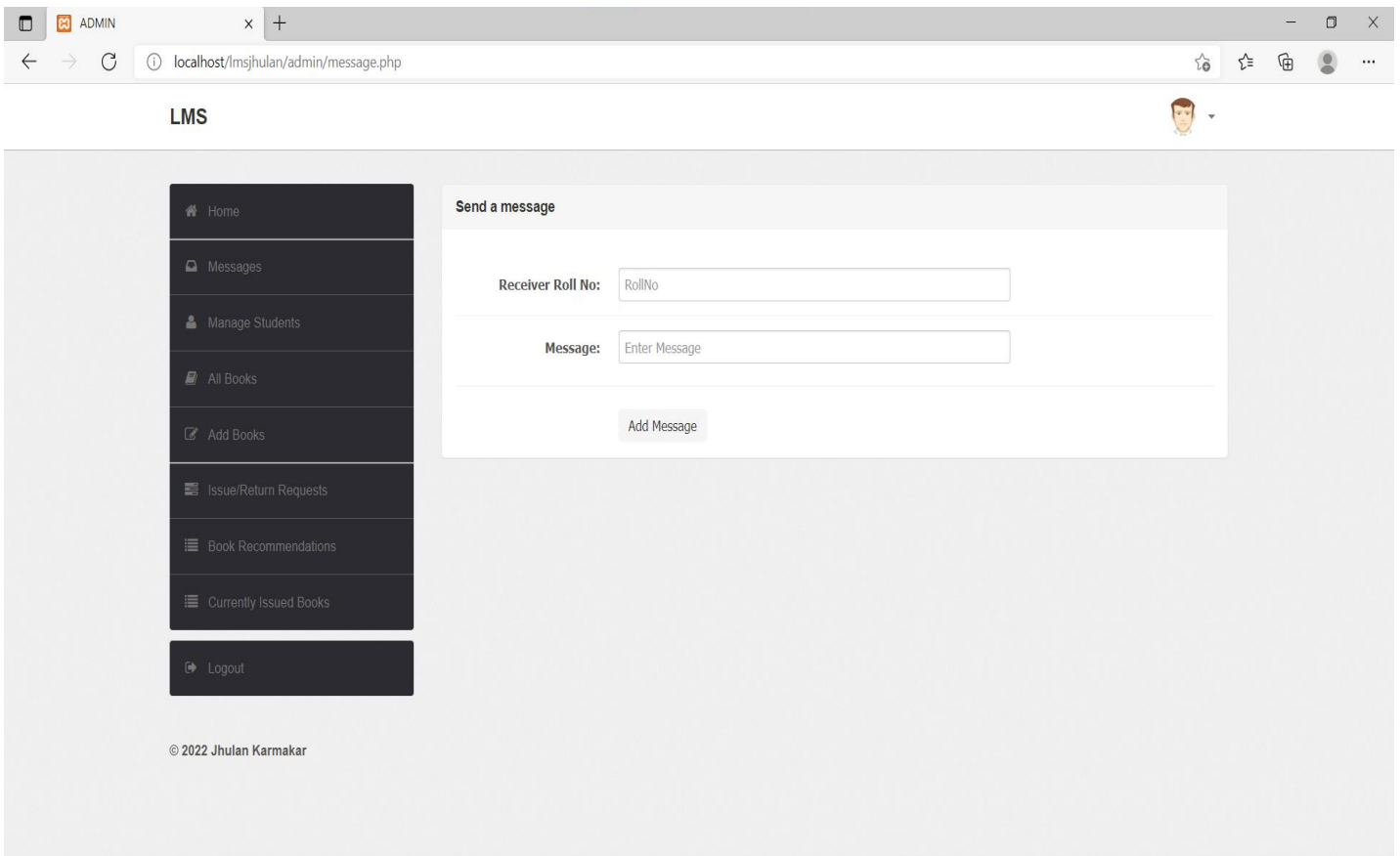
## FIGURES OF THE PROJECT-



SIGN IN AND SIGN UP PAGE (HOME PAGE)



ADMIN HOME PAGE



ADMIN MESSAGE SENDING PAGE

LMS

Search:  Search

| Book id | Book name                    | Availability |  |
|---------|------------------------------|--------------|--|
| 1       | OS                           | 0            | <a href="#">Details</a> <a href="#">Edit</a> |
| 2       | DBMS                         | 0            | <a href="#">Details</a> <a href="#">Edit</a> |
| 3       | TOC                          | 4            | <a href="#">Details</a> <a href="#">Edit</a> |
| 4       | TOC                          | 1            | <a href="#">Details</a> <a href="#">Edit</a> |
| 5       | DAA                          | 0            | <a href="#">Details</a> <a href="#">Edit</a> |
| 6       | DSA                          | 10           | <a href="#">Details</a> <a href="#">Edit</a> |
| 7       | Discrete Structures          | 8            | <a href="#">Details</a> <a href="#">Edit</a> |
| 8       | Database Processing          | 12           | <a href="#">Details</a> <a href="#">Edit</a> |
| 9       | Computer System Architecture | 4            | <a href="#">Details</a> <a href="#">Edit</a> |
| 10      | C: How to program            | 4            | <a href="#">Details</a> <a href="#">Edit</a> |
| 11      | Atomic and Nuclear Systems   | 13           | <a href="#">Details</a> <a href="#">Edit</a> |
| 12      | The PlayBook                 | 12           | <a href="#">Details</a> <a href="#">Edit</a> |
| 13      | General Theory of Relativity | 6            | <a href="#">Details</a> <a href="#">Edit</a> |

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## ADMIN ALL BOOKS PAGE

LMS

**Add Book**

**Book Title**

**Author**

**Publisher**

**Year**

**Number of Copies**

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## ADMIN ADD BOOKS PAGE

localhost / 127.0.0.1 / lms / reco

localhost/lmsjhulan/admin/recommendations.php

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

localhost/lmsjhulan/admin/student.php

LMS

Search:  Search

| Name    | Roll No.  | Email id             |                         |
|---------|-----------|----------------------|-------------------------|
| priya   | b160001cs | priya@gmail.com      | <a href="#">Details</a> |
| Adya    | b160002cs | adya@yahoo.com       | <a href="#">Details</a> |
| Aliya   | b160003ch | aliya@hotmail.com    | <a href="#">Details</a> |
| asha    | b160004me | asha@gmail.com       | <a href="#">Details</a> |
| barun   | b160005ce | barun@gmail.com      | <a href="#">Details</a> |
| Aparna  | b160006cs | aparna@gmail.com     | <a href="#">Details</a> |
| Goli    | b160007cs | goli@yahoo.com       | <a href="#">Details</a> |
| Ben     | b160008cs | ben10@hotmail.com    | <a href="#">Details</a> |
| Ashnoor | b160009cs | ashnoor@yahoo.com    | <a href="#">Details</a> |
| Hanya   | b160010cs | hanya@hotmail.com    | <a href="#">Details</a> |
| Gwen    | b160011ch | gwen@yahoo.com       | <a href="#">Details</a> |
| Kartik  | b160012me | kartik11@hotmail.com | <a href="#">Details</a> |
| Misti   | b160013pp | misti@gmail.com      | <a href="#">Details</a> |

ADMIN MANAGE STUDENT PAGE

localhost/lmsjulan/admin/requests.php

LMS

- 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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## ADMIN REQUESTS PAGE

localhost/lmsjulan/admin/issue\_requests.php

LMS

Issue Requests

Issue Requests   Renew Request   Return Requests

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

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## ADMIN ISSUE REQUEST PAGE



localhost/lmsjhuman/admin/renew\_requests.php

LMS

Issue Requests Renew Request Return Requests

### Renew Requests

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

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ADMIN RENEW REQUEST PAGE

localhost/lmsjhuman/admin/return\_requests.php

LMS

Issue Requests Renew Request Return Requests

### Return Requests

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

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ADMIN RETURN REQUEST PAGE



localhost / 127.0.0.1 / lms / reco x | +  
localhost/lmsjshulan/admin/current.php

### LMS

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

Search:  Search

| 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/lmsjshulan/admin/message.php

Type here to search


27°C Haze 19:11 13-12-2022

## ADMIN CURRENTLY ISSUED BOOKS

localhost / 127.0.0.1 / lms / user x | +  
localhost/lmsjshulan/student/index.php

### STUDENT

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



**Ronnie Das**

Email ID: [pritimistimodal@gmail.com](mailto: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

Screenshot of a web browser showing the LMS (Library Management System) interface. The browser address bar displays `localhost/lmsjhulan/student/message.php`. The page title is "LMS".

The interface features a sidebar menu on the left with the following options: Home, Messages, All Books, Previously Borrowed Books, Recommend Books, Currently Issued Books, and Logout.

The main content area displays a message table:

| Message   | Date       | Time     |
|---|------------|----------|
| Your request for issue of Bookid: 7 has been accepted | 2022-12-12 | 13:08:36 |

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## STUDENT MESSAGE\_PAGE

Screenshot of a web browser showing the LMS (Library Management System) interface. The browser address bar displays `localhost/lmsjhulan/student/recommendations.php`. The page title is "LMS".

The interface features a sidebar menu on the left with the following options: Home, Messages, All Books, Previously Borrowed Books, Recommend Books, Currently Issued Books, and Logout.

The main content area displays a "Reccomend a Book" form with the following fields:

- Book Title:
- Description:

Submit Recommendation

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## STUDENT BOOK RECOMMENDATION PAGE

LMS

Search:  Search

| Book id | Book name                    | Availability |   |
|---------|------------------------------|--------------|---|
| 11      | Atomic and Nuclear Systems   | AVAILABLE    | <a href="#">Details</a> <a href="#">Issue</a> |
| 12      | The PlayBook                 | AVAILABLE    | <a href="#">Details</a> <a href="#">Issue</a> |
| 8       | Database Processing          | AVAILABLE    | <a href="#">Details</a> <a href="#">Issue</a> |
| 18      | Theory of Machines           | AVAILABLE    | <a href="#">Details</a> <a href="#">Issue</a> |
| 6       | DSA                          | AVAILABLE    | <a href="#">Details</a> <a href="#">Issue</a> |
| 14      | Heat and Thermodynamics      | AVAILABLE    | <a href="#">Details</a> <a href="#">Issue</a> |
| 7       | Discrete Structures          | AVAILABLE    | <a href="#">Details</a> <a href="#">Issue</a> |
| 16      | Nuclear Physics              | AVAILABLE    | <a href="#">Details</a> <a href="#">Issue</a> |
| 17      | Operating System             | AVAILABLE    | <a href="#">Details</a> <a href="#">Issue</a> |
| 13      | General Theory of Relativity | AVAILABLE    | <a href="#">Details</a> <a href="#">Issue</a> |
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| 10      | C: How to program            | AVAILABLE    | <a href="#">Details</a> <a href="#">Issue</a> |
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## 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