

Library Management System

A THESIS

Submitted in partial fulfilment of the requirements for the award of the degree

Of

Bachelor of Technology

by

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(2018BCS-018)**



**ABV INDIAN INSTITUTE OF INFORMATION
TECHNOLOGY AND MANAGEMENT
GWALIOR-474 010 2019**

2020

CANDIDATES DECLARATION

I hereby certify that the work, which is being presented in the report/thesis , entitled **Library Management Project**, in partial fulfilment of the requirement for the award of the Degree of **Bachelor of Technology** and submitted to the institution is an authentic record of my/our own work carried out during the period July-2020 to Aug-2020 under the supervision of **Dr. Arun Kumar**. I/we also cited the reference about the text(s)/figure(s)/table(s) from where they have been taken.

The matter presented in this thesis as not been submitted elsewhere for the award of any other degree of diploma from any Institutions. (This is only application only for B.Tech.)

Date:

Signature of the Candidate

This is to certify that the above statement made by the candidate is correct to the best of my /our knowledge.

Date:

Signature(s) of the Research Supervisor (s)

ABSTRACT

A library is a collection of books, newspapers, magazines, videos, recordings, audio tapes and my other rich resources from which one can learn and understand concepts. Handling a library manually is very tedious and clumsy. So to manage library I decide to make a web application using which will manage the library in well-structured way which will lessen physical labour. This will also solve the problem when there is a non-computerized system then there is a chance of loss of books, member record and many other things. All these problems easily solve by the computerized system as everything is present in the database.

There are many computerized systems which are present but mostly of them are not user-accessible. Most of the college need a library card for issue/return request. In my project I plan to include the existing features with some new features like user accessible, remove the burden of library card and many others. User accessible means after login they can see number of books available, number of books issued, issue date, return date and also the students can recommend good books to the librarian to add more copies if the books available if not then you can request him to add new books. Also, Message autoreply service added to this system through which user and admin can communicate. Users get reminder before return date of every book through message.

Finally concluding I made this project for the benefit of students and staff of library to manage the library in best possible way.

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CHAPTER 1 INTRODUCTION

1.1 Background of the study

A library is a collection of books, newspapers, magazines, videos, recordings, audio tapes and my other rich resources from which one can learn and understand concepts. It contains books related to different fields like academic books, economics, medical science, finance, mathematics, politics and many other different fields. There are different types of libraries: National libraries, Academic libraries, public lending libraries, Research libraries, Digital libraries, Reference libraries etc. In my project we will deal with Academic libraries. Academic libraries are the libraries which are present in college/universities which serve the faculty of that and students or for academic books and many other resources related to research work.

In old time, mostly academic libraries are maintained by a particular staff of an institute but now everywhere there is a computerized system present so i my project I made this this system more efficient and also add some more functionalities.

In present time, most of the institute have a computerized system but still there are 30% schools and institute which do not have a computerized system. Out of those schools/institute which have a computerized system 90% of them do not have user access system. In my project, I made a web application which admin (librarian) and user (students) both can access and interact with each other. In this web application user can access the website, see which books are present in the library and can send issue/return request. On other side, admin can accept the request. And also, there is message facility present in my system through which they can admin can send reminder request before the return date of books. There are many other functionalities which I added in my project.

1.2 Motivation

Problems in old system when there is no computerized system :-

- **Difficult to search books**

Academic libraries consist of large number of books. If there is no computerized system for users to see which books are present then this is a very tedious task.

- **File lost**

There is always a problem of file lost when there is no computerized system present. In the computerized system there is no such problem.

- **Space consuming**

Academic libraries contain large number of records therefore it needs a very large space to store each and every record. If the computerized system is present then we can easily store records in computer.

- **File damaged**

Files which contain records may lost due to some reasons like paper quality, spelling of water or due to some other natural disaster etc. But if we have computerized issue then there is no such issue.

- **Cost consuming**

As to store large number of records we also need huge amount of paper which can also effect our environment and also costly.

- **Not user friendly**

Some of the colleges have computerized library system but they are not allowed to access the website.

This problem is important to resolve all these issues Also most of the colleges which have computerized system but are not user friendly, students are not allow to visit the website to show fine and returned date etc.

Students have to visit from their hostels to see whether the books are available or not. To resolve this, they can see the details which books are available in the library.

I choose this problem because most of students in every college face this. No student wants to run from their hostel to check which books are available or not. To see the details of the books and also the details of all students is present on the website. So, they can visit the website to see all details.

1.3 Objectives

Efficiency

This system is made to increase efficiency by implanting more facilities like making it user friendly, issue/return request.

Save time

User(students) and admin (Librarian) can access the website to search books and records easily whether the required books are present in the library or not.

Message facility

Message facility is given to students and admins to interact with each other. Students can get reminder through message on user chat before returned date of every book.

User friendly

Students can visit website to see their details – all the books they issued, returned date and fine. Users can also view which books are available in library on website.

Book Recommendation

If the students find any book useful which can benefit others also then they can recommend that book for others.

No Need of library Card

Students can directly send requests issue/renew/request from the website only. There is no need to carry library card to issue them.

1.4 Literature survey

Before making this project, I read three recent important journals on Library management system. All three journals help a lot me in understanding the design and structure of the library management system.

[1] Implementation of Automated Library Management System in the School of Chemistry Bharathidasan University using Koha Open Source Software

Library automation refers to mechanization of library house keeping operations predominantly by computerization.

Objectives of this study: -

- To develop and updated database of Books and other Resources of the school of Chemistry Library, Bharathidasan University.
- To implement automated system using Koha Library Integrated Open Source Software.
- To carryout the charging and discharging functions of the circulation section more effectively.to provide various search options to know the availability of books in Library.
- To generate the list of books due by a particular member and also the overdue charges.

[2] Ashutosh Tripathi & Ashish Srivastava / IOSR Journal of Engineering

The purpose of the application is automation of library, it provide facilities to student required books and it allows the administrator or librarian to Issue & return books to librarian to Issue & return books to students and can create & delete membership of students. The software Library Management System has four main modules.

- Insertion to Database Module - User friendly input screen
- Extracting from Database module – Attractive Output Screen
- Report Generation module - borrowed book list & Available book list
- Search Facility system - search for books and members

[3] International Journal of Creative Research Thoughts (IJCRT) ENHANCED LIBRARY MANAGEMENT SYSTEM.

The ELMS project is developing a computerized system in library management. As the modern organizations are computerized, This ELMS helps become essential for human being, commodity and computers in modern organization. An ELMS is an application which refers to library systems are generally small/medium in size. It helps the librarian to manage the library with the computerized system, by use of this system he can record various transaction like issue of books, return of books, adding of new student and adding of new student and more. Books and student maintenance modules are included in the system which keep track of the student using library and also describe about the books in library. Use of these ELMS there is no loss of book record/ member record, which generally happens when a noncomputerized system is used.

CHAPTER 2 METHODOLOGY

2.1 System Architecture

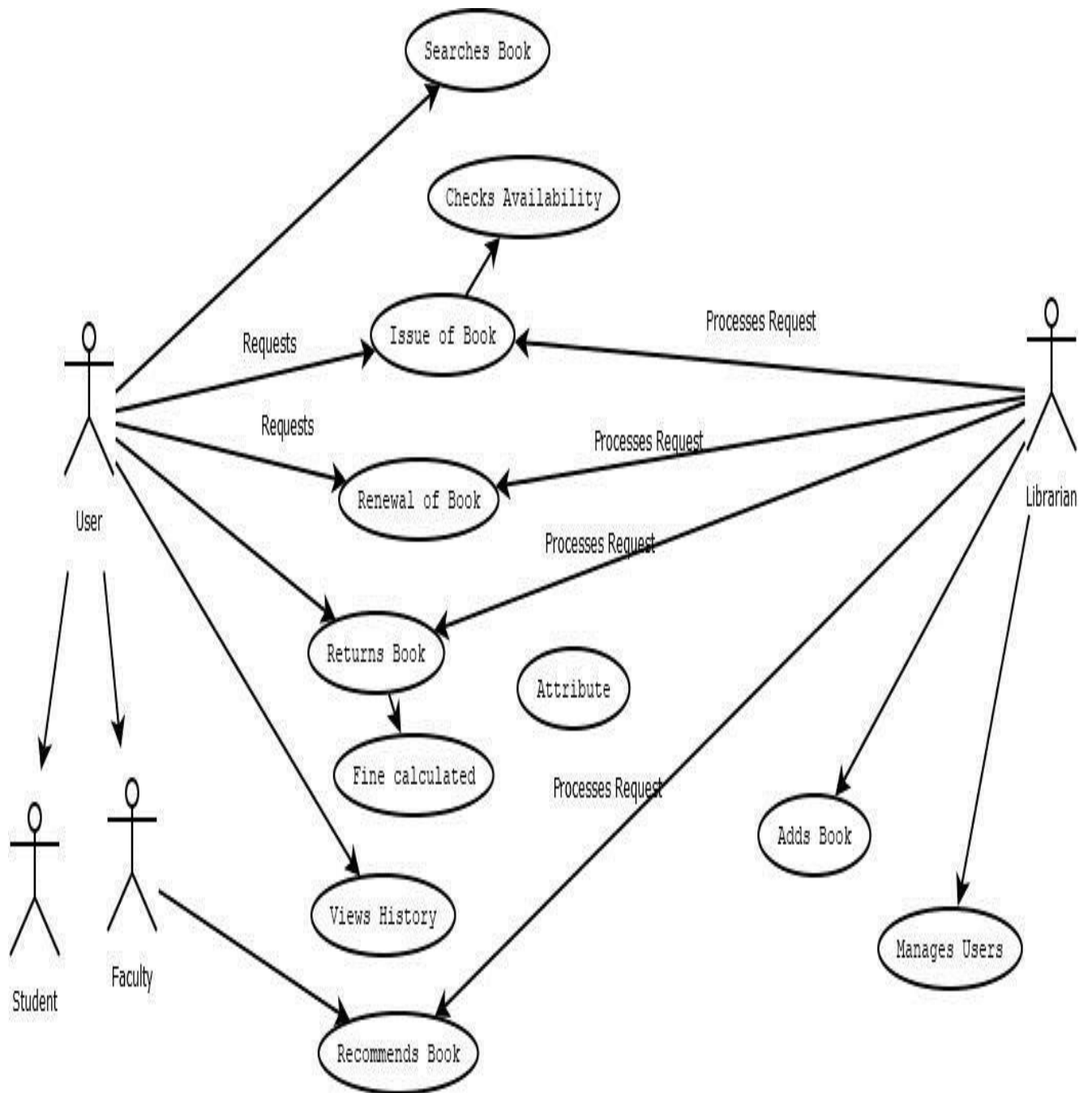
Mainly there are two main actors in my system – User and librarian. User can be students and faculty both.

Actor1 User (Student/Faculty):

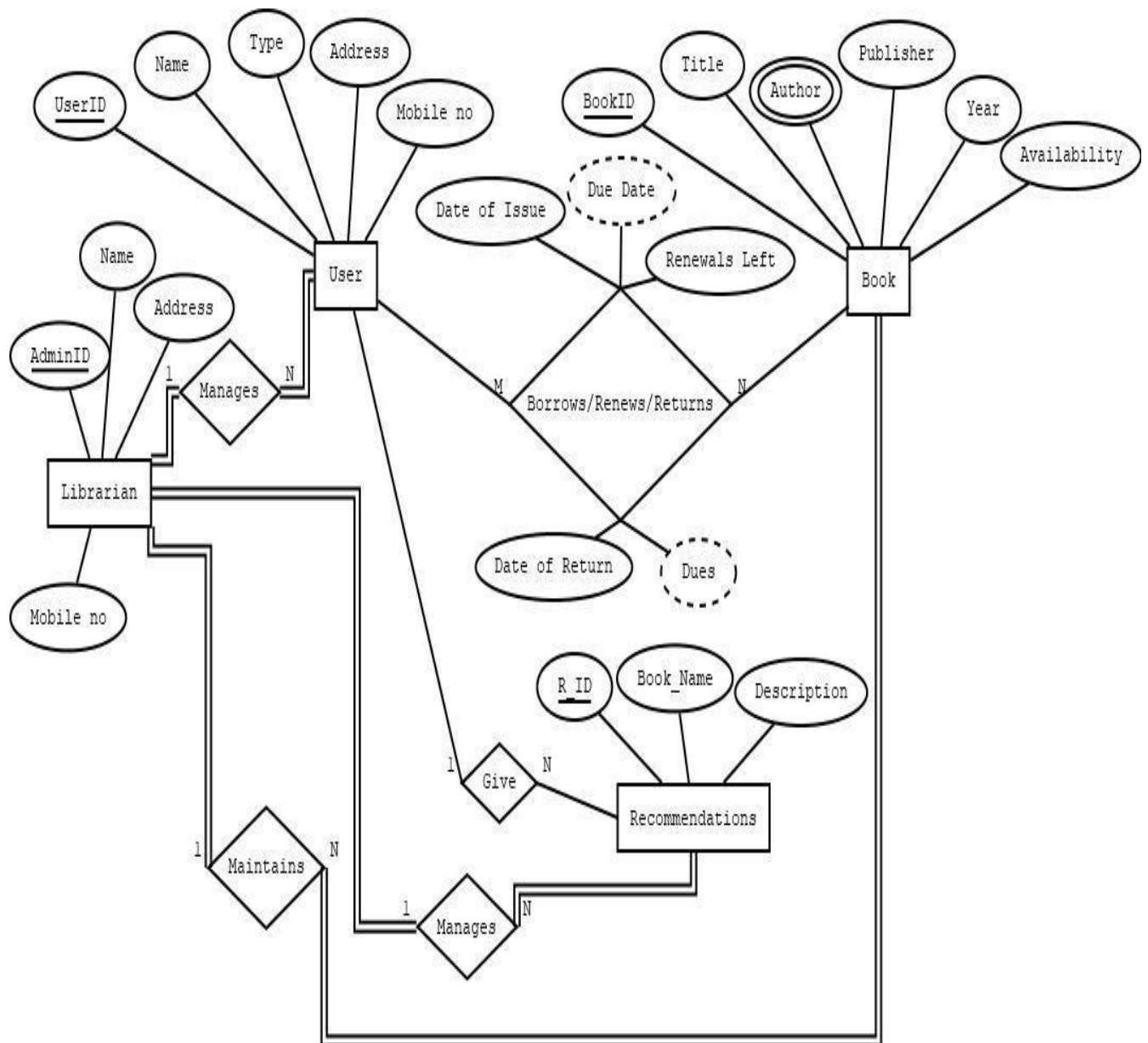
- User can search books in the library.
- Send issue/renew/return request of books.
- Issue also include check availability functionality.
- After returning book fine is calculated.
- User can see the history of the books he issued previously.
- If the user finds any book interesting /useful, he can recommend that book for other students.

Actor2 Admin (Librarian):

- Librarian processes issue, renew, and return requests that comes from the user.
- He can also process the requests for book recommendation.
- Librarian can add new books to the library.
- He can also manage all the users.



Context flow Diagram for Library-Management system

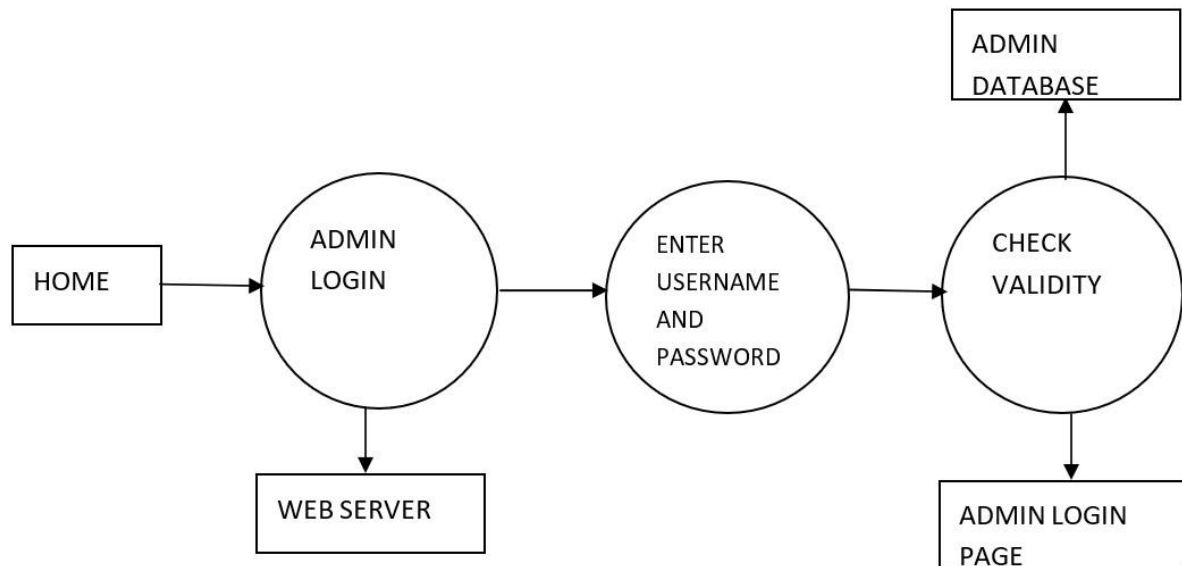


Entity Relationship Diagram

2.2 Block Diagram

2.2.1 Admin Sign-in

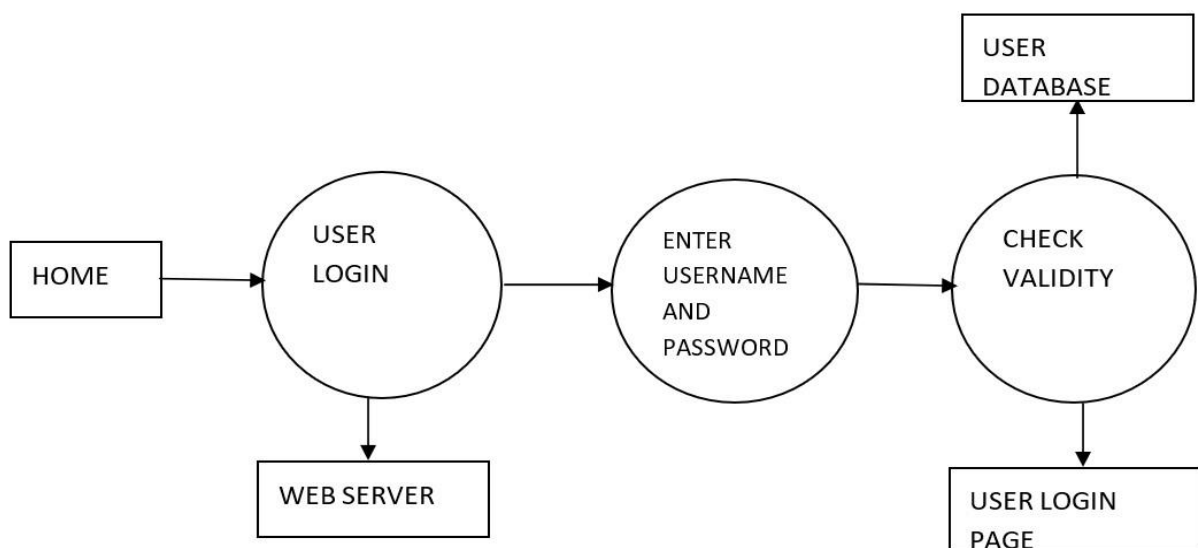
When the admin opens the first page of website, he has to enter his username and password to Sign-in. If he is valid user then he will enter to the admin home dashboard otherwise error message is displayed.



Dataflow diagram for admin Sign-in

2.2.2 User Sign-in

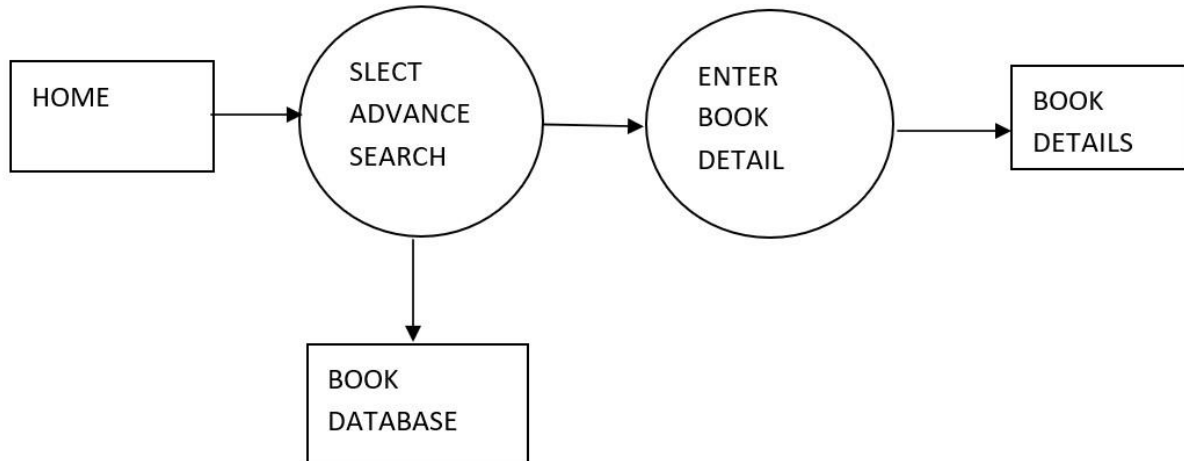
First the user has to sign-up for first time by entering all the required detail. Next time he can Sign-in using username and password that he enters at the time of sign-up.



Dataflow Diagrams for user Sign-in

2.2.3 Book search

When the user login through the home page there is an option of “All BOOKS” present in library. User can search book by entering its details like author of the book, publication or name of the book.



Dataflow diagram for book search

2.3 Methodology

The whole project is divided into three sections: Home page, User dashboard, Admin Dashboard.

Home page:

First, I create the home page. This home page consists of sign-up/sign-in sections. First time the user has to sign-up by filling all the details (Name, Email, Password, Phone no., Roll number, category)

Then the admin and user next time can login with Roll no. and Password. If any of them entered is wrong then dialogue box appears with Incorrect Roll no. and password.

Admin Dashboard

Home: After login using admin roll no. and password Admin home page appears where admin details is visible, he/she can update details using button Edit details.

Message: Admin can send message to user for reminding before the return date of book

or for any other information.

Mange Students: Admin can see the details of all its users in mange student section.

All Books: This section contain all books present in the library. There is also an option for admin to update details.

Add Books: Student can add new books to library by filling book title, author, Publisher, Publication year and a number of copies.

Issue/Return request: It contain three sections issue requests, renew requests and return requests. Issue request contains all the requests made by the user to issue the book. Renew requests contain all the requests made by the user to renew books which they already issued. Return request contain all the requests made by the students to return the books.

Book Recommendation: This section contains all the books recommend by different students and its description and students Roll no.

Currently issued book: It contains all the books issued by students (Roll no., Book ID, Book name, Issue date, Due date, Dues).

Logout: From here admin can return to the Home page.

User Dashboard

Home: After login using user roll no. and password Admin home page appears where admin details is visible, he/she can update details using button Edit details.

Message: User will get the message if his issue/renew/return request get accepted. User can also get reminder for before return date of every book.

All books: User can see all books present in the library and their details. If he wants to issue, he/she can issue books by clicking on issue button.

Previously Borrowed books: It contains the history of all the books that the user issued previously.

Recommend Books: Students can recommend books to other students if they find useful using book title and description.

Currently issued book: It contains all the books currently issued by that user.

Logout: From here user can return to the home page.

2.4 Implementation Details – setup & tools used

2.4.1 Software Requirements

OPERATING SYSTEM: Window 10

NOTEPAD: Need for writing codes (HTML, CSS, JavaScript, PHP, MySQL)

PHPMYADMIN: Control panel from where we can manage the database that we have created.

XAMPP: XAMPP uses folders in htdocs to execute and run PHP sites. Xampp is used for php-database connectivity.

Front-end is designed using HTML, CSS, PHP, JavaScript.

Back-end is designed using MySQL which is used to design the Database.

HTML stands for Hyper Text Mark-up Language .HTML can be used for creating web pages which can be displayed in web browser. Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages.

CSS is a style sheet language used for describing the presentation of a document written in a mark-up language like HTML.

PHP stands for Hypertext Pre-processor. Basically PHP. PHP is a general-purpose scripting language that is used for server -side scripting.

JavaScript is a scripting or programming language that allows you to implement complex features on web pages — every time a web page does more than just sit there and display static information for you to look at — displaying timely content updates, interactive maps, animated 2D/3D graphics, scrolling video jukeboxes, etc.

2.5 Testing

Software Testing is done at the module level or at the phase level of SDLC (Software development Life cycle). Software Testing is the result of the software against requirement made by the user.

The testing is done manually by the developer himself. We have not opted for the automated testing tools as our software is not prepared at the industrial level.

The developer prepared the test cases for different sections and level of code. It took a bit of time for executing the test cases and find errors in the code. After the error was find its solution is prepared and implemented by the developer.

We have performed testing at three levels –

Unit Testing

Developer perform while coding performs some task on the individual unit of the system to check whether it is error free or not.

Integration Testing

If the units of software are working fine individually (error free), there is a need to check if the units if integrated together would also work working fine without errors.

System Testing

After integration testing, the software is compiled as product and then it is tested as a whole to check whether it is satisfying all the requirements or not. System Testing can be done by functionality testing (testing all functionalities as per the requirements) and its performance that is how efficiently the software is working.

After going through tests, it was proved that the system was free from errors, faults and failures. And it is ready to go live and help the schools/institutes in need

CHAPTER 3 RESULT AND DISCUSSION

3.1 (LMS)Database Tables

+ User

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	RollNo	varchar(50)	latin1_swedish_ci		No	None			Change Drop More
<input type="checkbox"/> 2	Name	varchar(50)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 3	Type	varchar(50)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 4	Category	varchar(50)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 5	EmailId	varchar(50)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 6	MobNo	bigint(11)			Yes	NULL			Change Drop More
<input type="checkbox"/> 7	Password	varchar(50)	latin1_swedish_ci		Yes	NULL			Change Drop More

+ Book

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	BookId	int(10)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/> 2	Title	varchar(50)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 3	Publisher	varchar(50)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 4	Year	varchar(50)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 5	Availability	int(5)			Yes	NULL			Change Drop More

+ Message

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	M_Id	int(10)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/> 2	RollNo	varchar(50)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 3	Msg	varchar(255)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 4	Date	date			Yes	NULL			Change Drop More
<input type="checkbox"/> 5	Time	time			Yes	NULL			Change Drop More















+ Author

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	BookId	int(10)			No	None			Change Drop More
<input type="checkbox"/> 2	Author	varchar(50)	latin1_swedish_ci		No	None			Change Drop More

Record

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	RollNo 	varchar(50)	latin1_swedish_ci		No	None			 Change  Drop  More
<input type="checkbox"/> 2	BookId  	int(10)			No	None			 Change  Drop  More
<input type="checkbox"/> 3	Date_of_Issue	date			Yes	NULL			 Change  Drop  More
<input type="checkbox"/> 4	Due_Date	date			Yes	NULL			 Change  Drop  More
<input type="checkbox"/> 5	Date_of_Return	date			Yes	NULL			 Change  Drop  More
<input type="checkbox"/> 6	Dues	int(10)			Yes	NULL			 Change  Drop  More
<input type="checkbox"/> 7	Renewals_left	int(10)			Yes	NULL			 Change  Drop  More
<input type="checkbox"/> 8	Time	time			Yes	NULL			 Change  Drop  More








Recommend

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	R_ID 	int(10)			No	None		AUTO_INCREMENT	 Change  Drop  More
<input type="checkbox"/> 2	Book_Name	varchar(50)	latin1_swedish_ci		Yes	NULL			 Change  Drop  More
<input type="checkbox"/> 3	Description	varchar(255)	latin1_swedish_ci		Yes	NULL			 Change  Drop  More
<input type="checkbox"/> 4	RollNo 	varchar(50)	latin1_swedish_ci		Yes	NULL			 Change  Drop  More

Renew

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	RollNo 	varchar(50)	latin1_swedish_ci		No	None			 Change  Drop  More
<input type="checkbox"/> 2	BookId  	int(10)			No	None			 Change  Drop  More

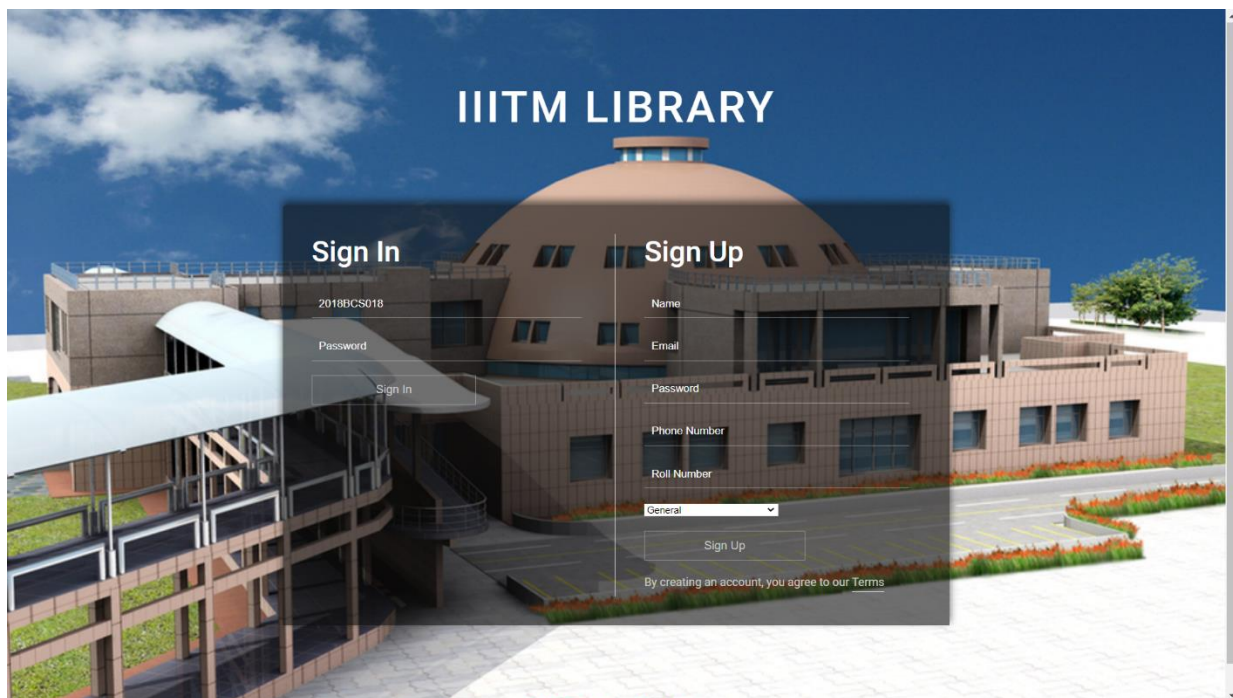
Return

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	RollNo 	varchar(50)	latin1_swedish_ci		No	None			 Change  Drop  More
2	BookId  	int(10)			No	None			 Change  Drop  More

3.2 Outputs/Results

SIGNIN And SIGNUP PAGE:

First New user (student) can sign-up by filling all their details name, email, password, phone no, roll no and category. Next time they can easily sign-in through their roll no and password.

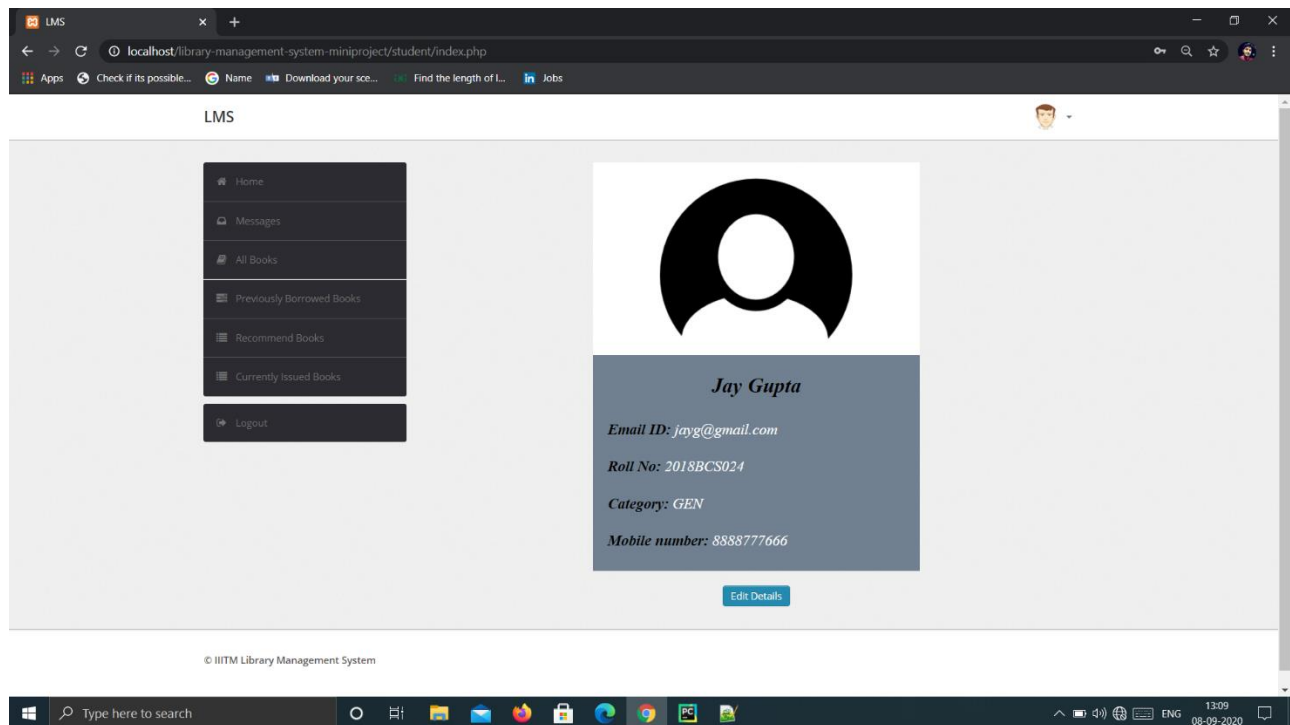


STUDENT SECTION

SIGNIN BY STUDENT

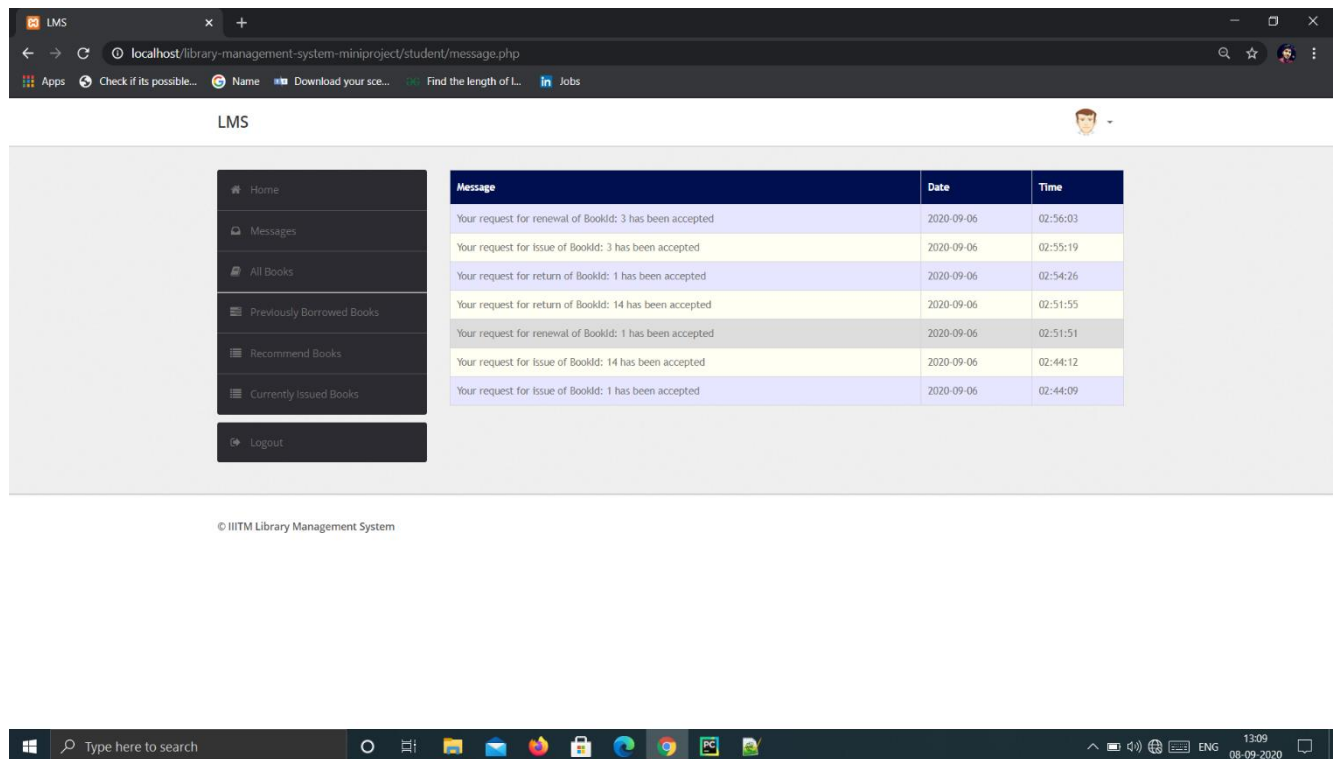
Home:

User(student) Home page contains all their details (Email-id, Roll-no, Category, Mobile no.) and they can also update their details by clicking on Edit details.



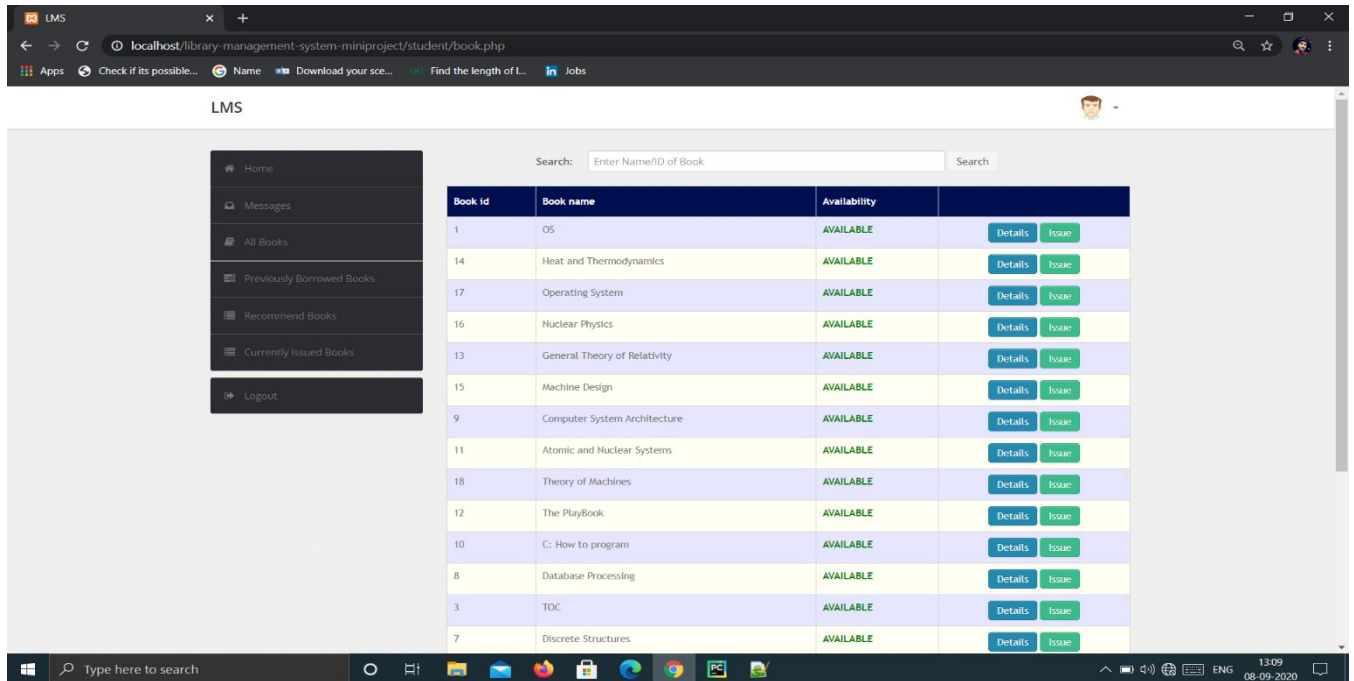
Messages:

User can see message send by the admin in the message section. Students will also get reminder for each book before return date through message.



All Books:

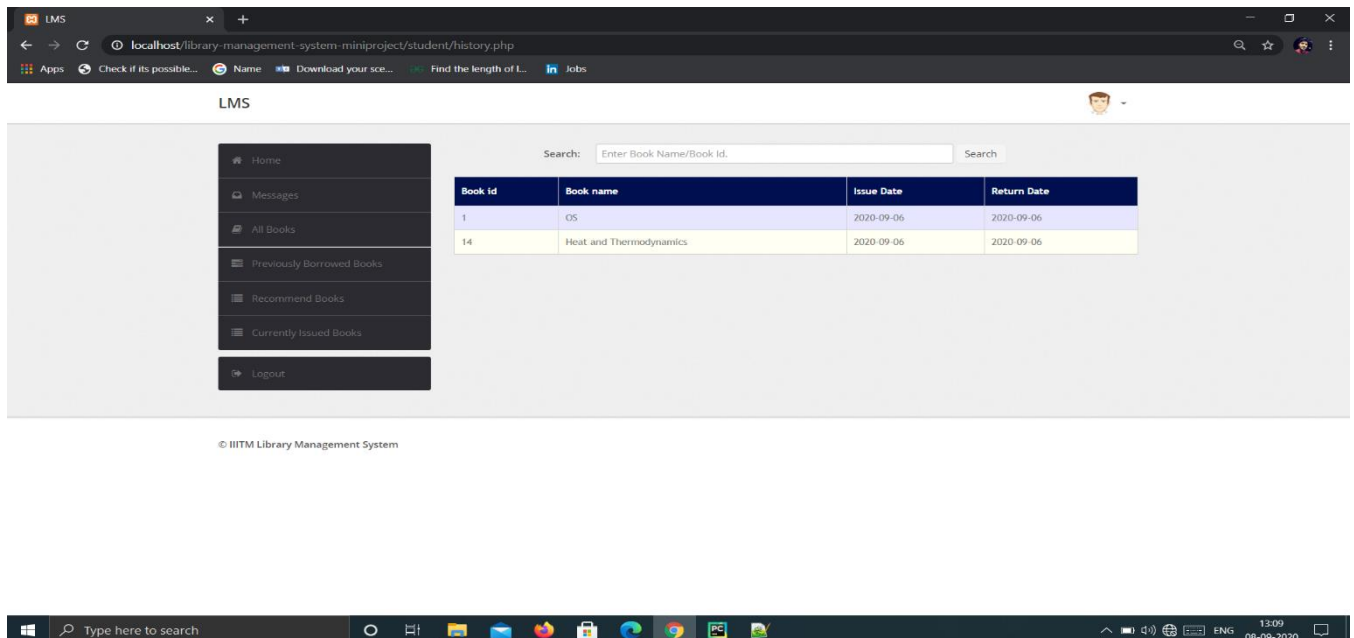
User can see all the books present in library in the 'All BOOKS' section. They can see books details by clicking on details and can send issue request to admins.



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

Previously Borrowed Books:

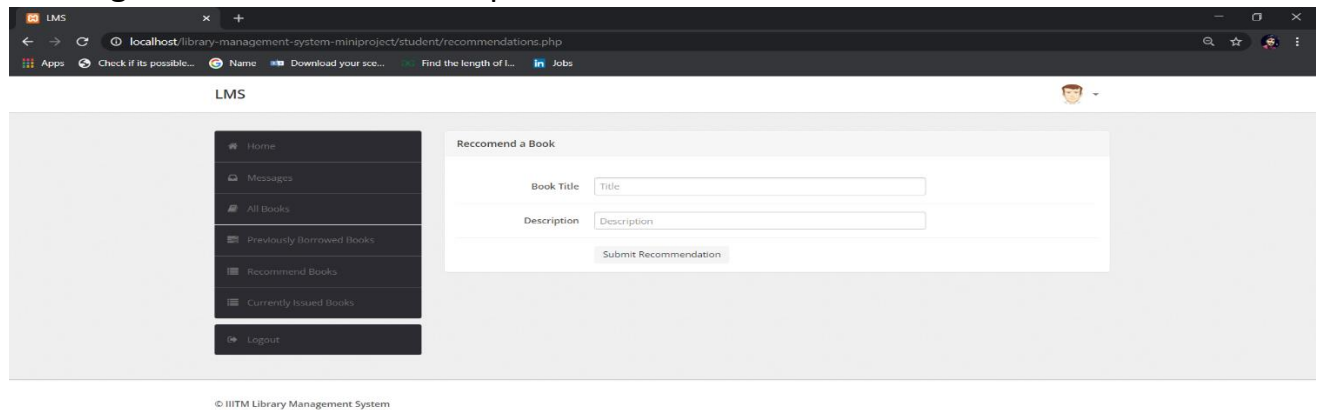
Users can see their previously issued books history in 'previously borrowed books' section.



Book id	Book name	Issue Date	Return Date
1	OS	2020-09-06	2020-09-06
14	Heat and Thermodynamics	2020-09-06	2020-09-06

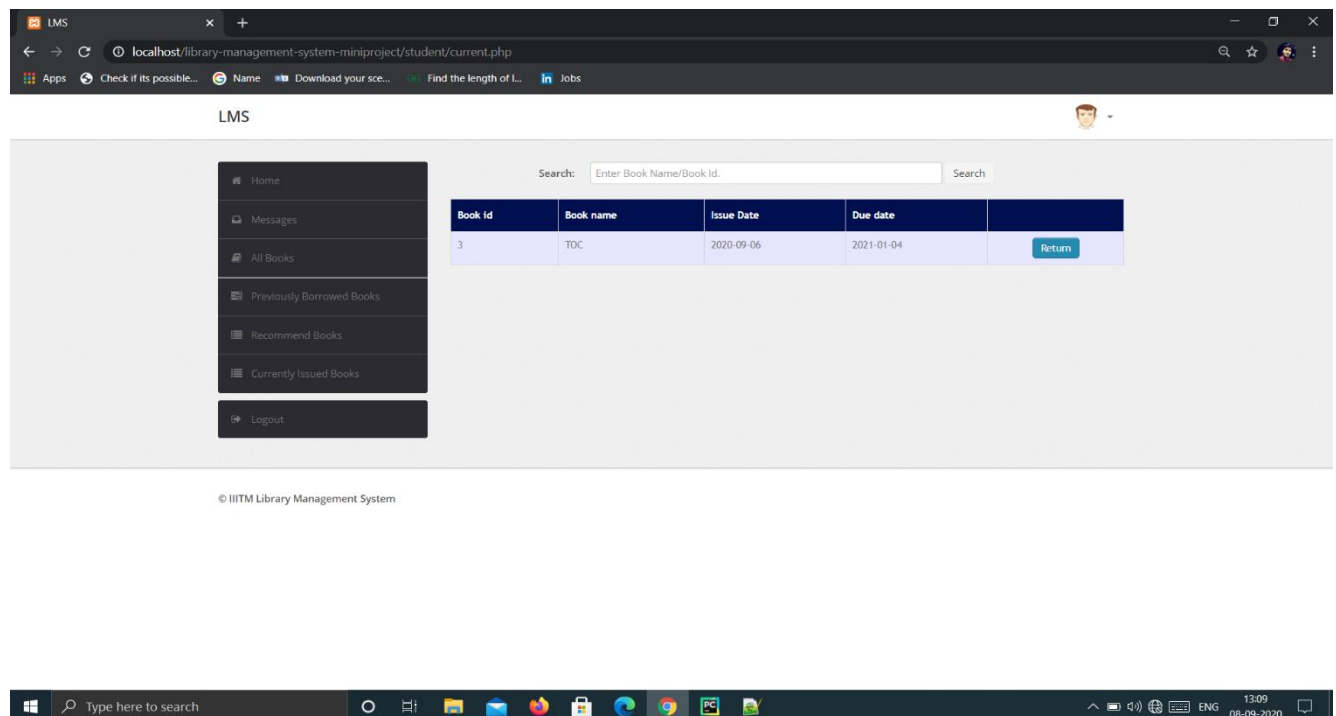
Recommend Books:

If the user finds any book useful they can recommend a book to admin by sending book title and its description.



Currently Issued Books:

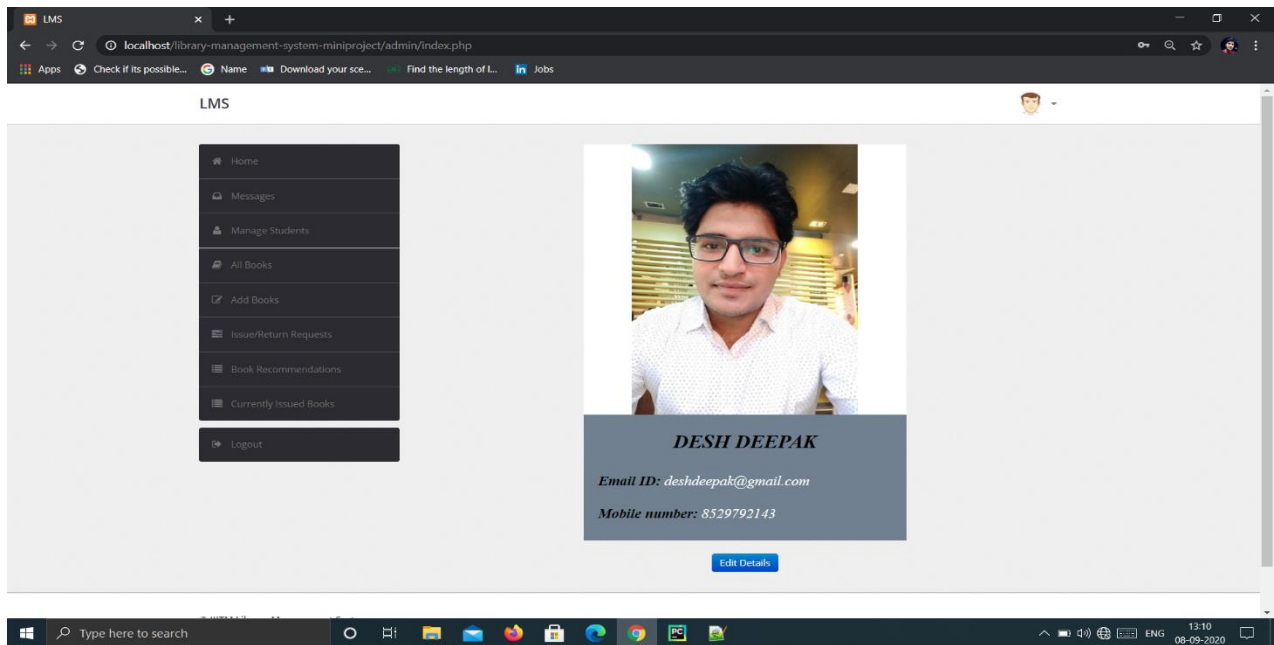
User can view their currently issued books the 'currently issued book' section. They can also renew or return that book by clicking on renew and return button.



ADMIN

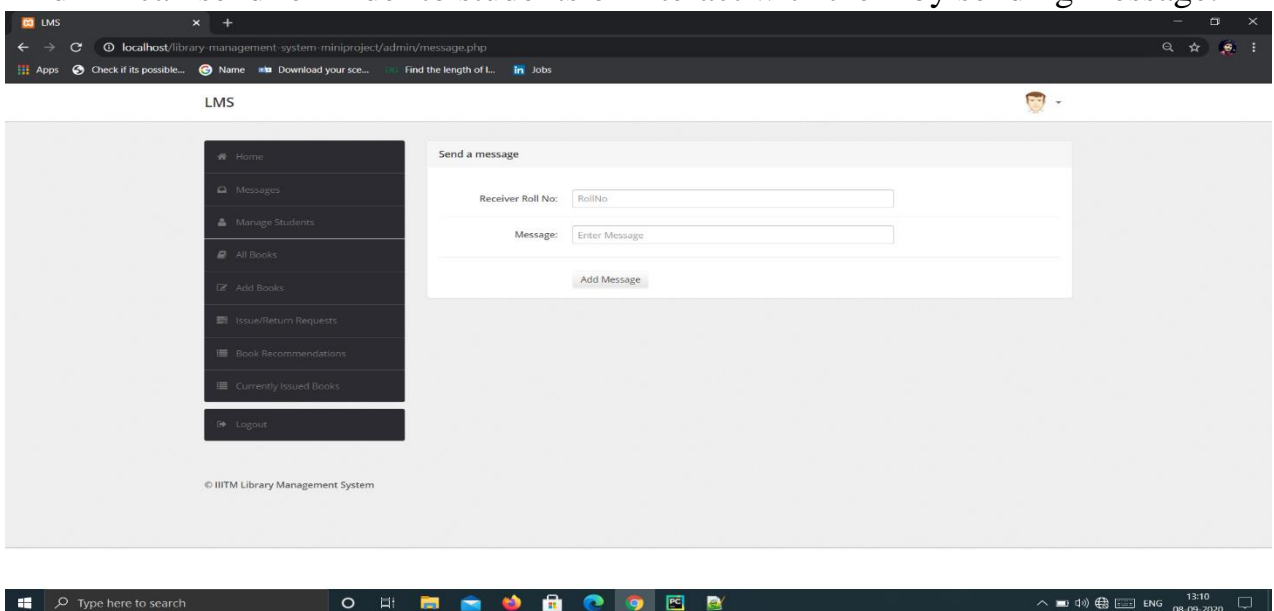
Home:

Admin can see all their details (email-id, mobile number) in the Home section and can also change their details by clicking on 'Edit details'.



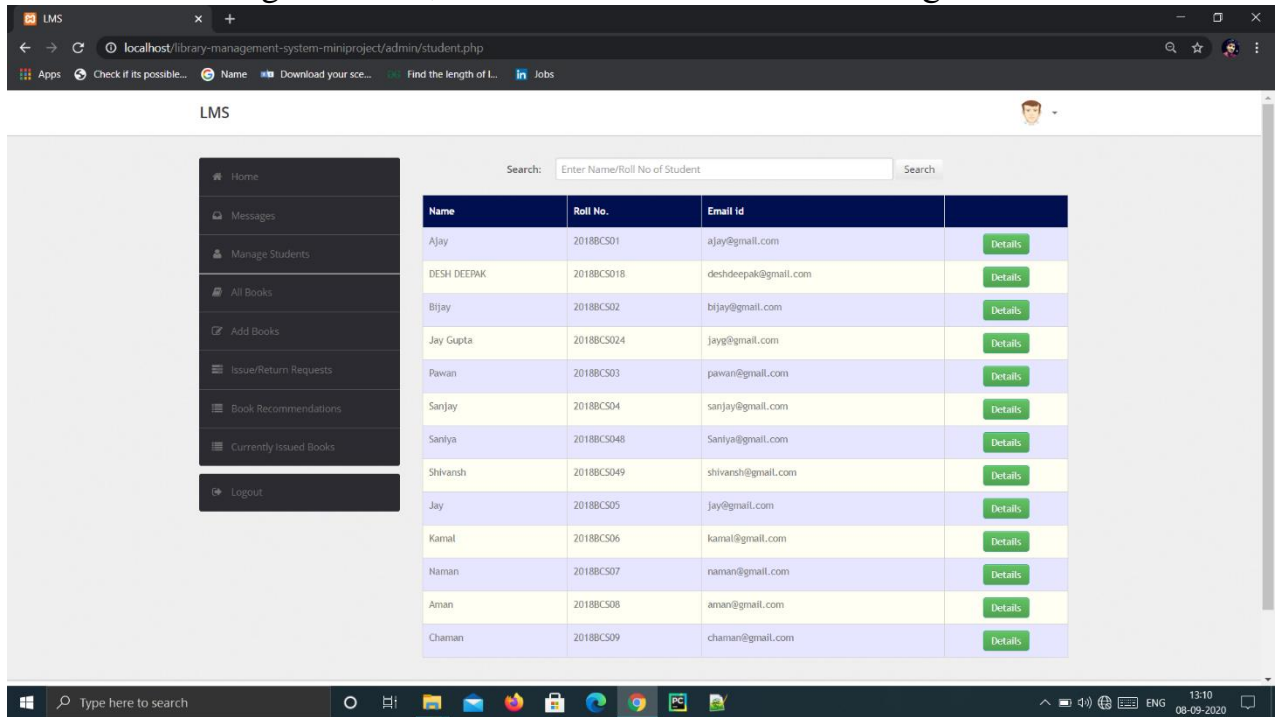
Messages:

Admin can send reminder to students or interact with them by sending message.



Manage students:

Admin can manage students, see all their details in the 'manage book' section.

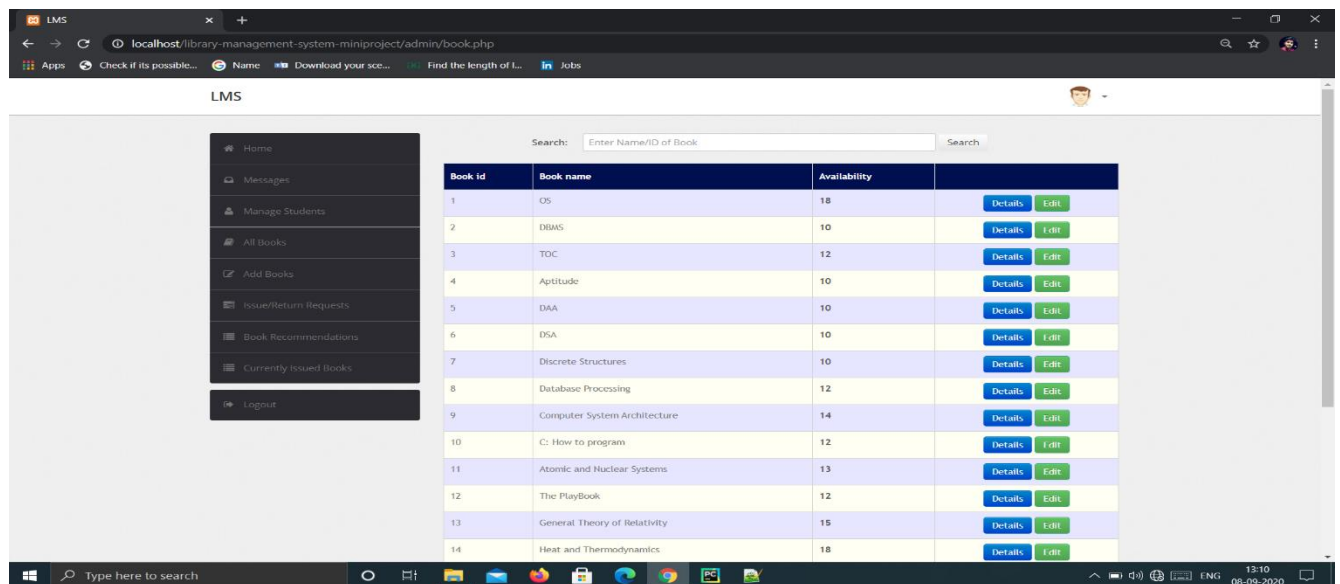


Search: Enter Name/Roll No of Student

Name	Roll No.	Email id	
Ajay	2018BCS01	ajay@gmail.com	Details
DESH DEEPAK	2018BCS018	deshdeepak@gmail.com	Details
Bijay	2018BCS02	bijay@gmail.com	Details
Jay Gupta	2018BCS024	jayg@gmail.com	Details
Pawan	2018BCS03	pawan@gmail.com	Details
Sanjay	2018BCS04	sanjay@gmail.com	Details
Sanjya	2018BCS048	sanjya@gmail.com	Details
Shivansh	2018BCS049	shivansh@gmail.com	Details
Jay	2018BCS05	jay@gmail.com	Details
Kamal	2018BCS06	kamal@gmail.com	Details
Naman	2018BCS07	naman@gmail.com	Details
Aman	2018BCS08	aman@gmail.com	Details
Chaman	2018BCS09	chaman@gmail.com	Details

All Book:

Admin can see all books and the no of copies available, all their details present in the library and can also update details by clicking on update details.

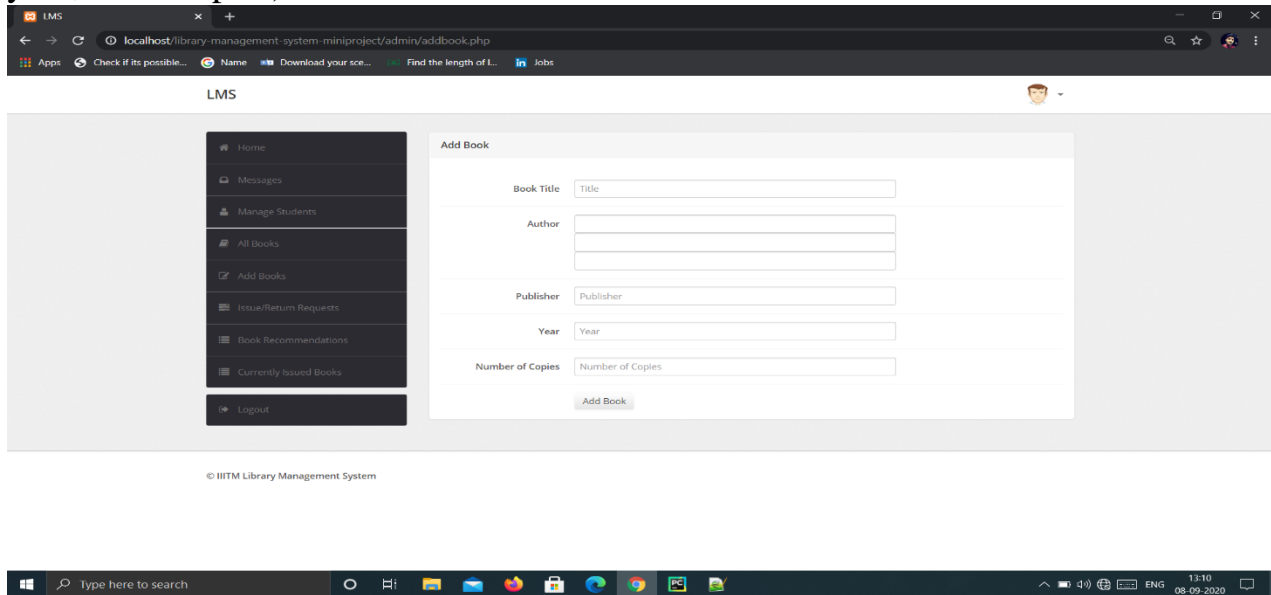


Search: Enter Name/ID of Book

Book id	Book name	Availability	
1	OS	18	Details Edit
2	DBMS	10	Details Edit
3	TOC	12	Details Edit
4	Aptitude	10	Details Edit
5	DAA	10	Details Edit
6	DSA	10	Details Edit
7	Discrete Structures	10	Details Edit
8	Database Processing	12	Details Edit
9	Computer System Architecture	14	Details Edit
10	C: How to program	12	Details Edit
11	Atomic and Nuclear Systems	13	Details Edit
12	The PlayBook	12	Details Edit
13	General Theory of Relativity	15	Details Edit
14	Heat and Thermodynamics	18	Details Edit

Add Books:

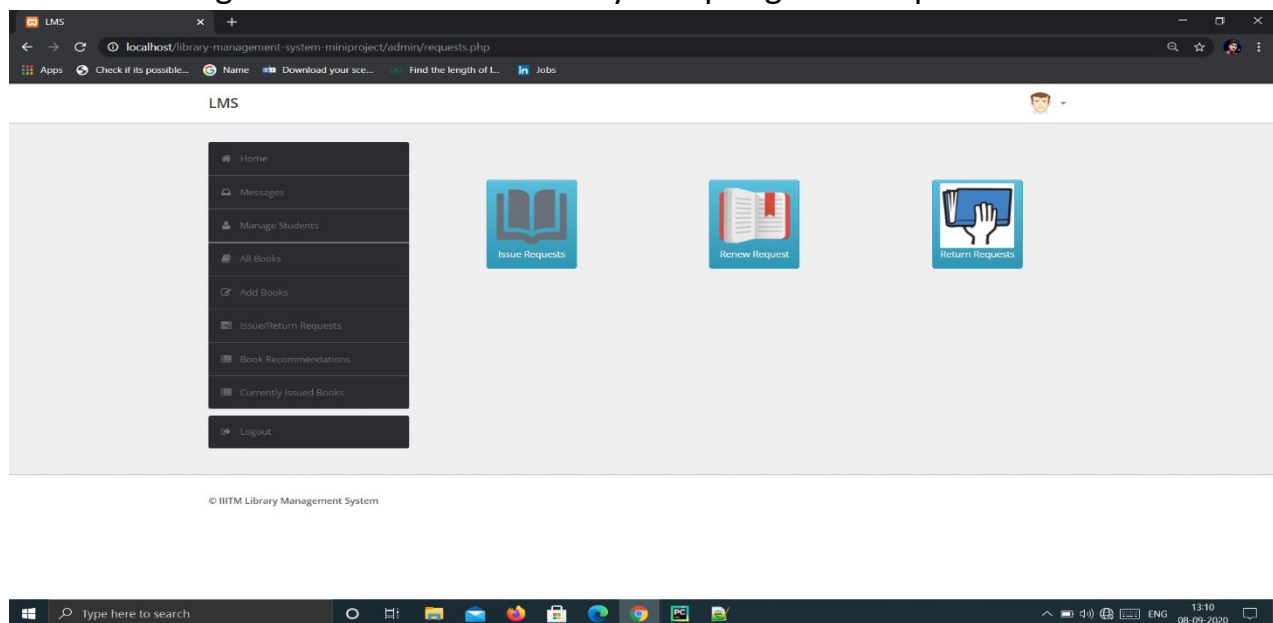
Admin can add new books by entering its details (book title, author, publisher, year, no of copies).



The screenshot shows a web browser window with the URL `localhost/library-management-system-miniproject/admin/addbook.php`. The page is titled 'LMS' and features a sidebar menu on the left with options: Home, Messages, Manage Students, All Books, Add Books (highlighted), Issue/Return Requests, Book Recommendations, Currently Issued Books, and Logout. The main content area is titled 'Add Book' and contains a form with the following fields: Book Title (Title), Author, Publisher, Year, and Number of Copies. An 'Add Book' button is located at the bottom of the form. The footer of the page reads '© IIITM Library Management System'.

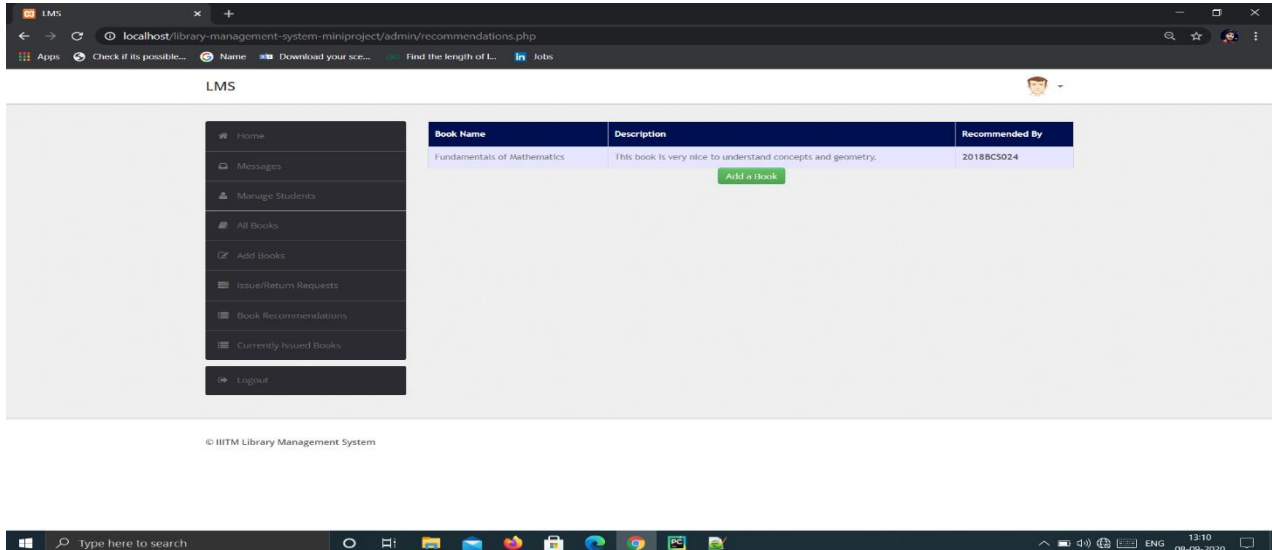
Issue/Return Requests:

Admin can see Issue ,renew, return requests in 'Issue/return request' from students and grant access to students by accepting their requests.



Book Recommendations:

Admin can see all the book recommendation the book Recommendation section and also the student roll no who recommend that book.



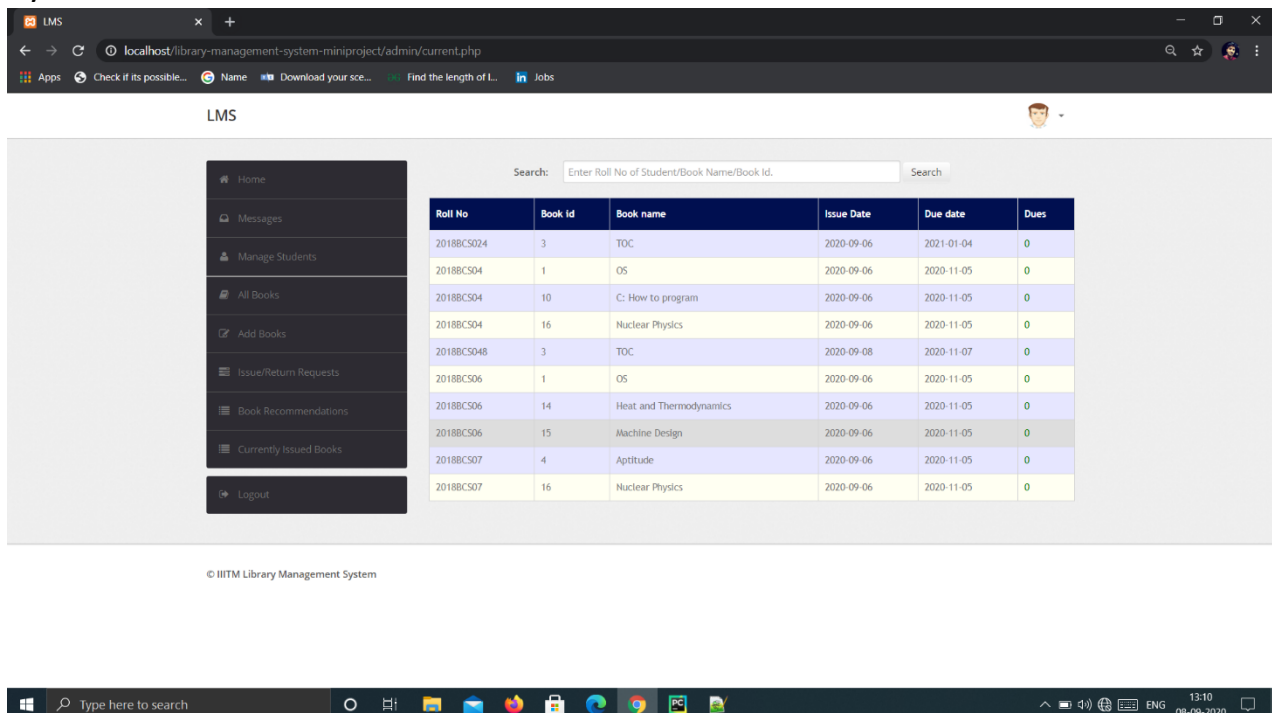
The screenshot shows the 'Book Recommendations' page of the LMS. The page has a sidebar with navigation links: Home, Messages, Manage Students, All Books, Add Books, Issue/Return Requests, Book Recommendations, Currently Issued Books, and Logout. The main content area displays a table with the following data:

Book Name	Description	Recommended By
Fundamentals of Mathematics	This book is very nice to understand concepts and geometry.	2018BC5024

Below the table is a green button labeled 'Add a Book'. The footer of the page reads '© IIITM Library Management System'.

Currently Issued Books:

In currently issued book section admin can see all details of books issued by different students.



The screenshot shows the 'Currently Issued Books' page of the LMS. The page has a sidebar with navigation links: Home, Messages, Manage Students, All Books, Add Books, Issue/Return Requests, Book Recommendations, Currently Issued Books, and Logout. The main content area features a search bar with the placeholder text 'Enter Roll No of Student/Book Name/Book Id.' and a 'Search' button. Below the search bar is a table with the following data:

Roll No	Book Id	Book name	Issue Date	Due date	Dues
2018BC5024	3	TOC	2020-09-06	2021-01-04	0
2018BC504	1	OS	2020-09-06	2020-11-05	0
2018BC504	10	C: How to program	2020-09-06	2020-11-05	0
2018BC504	16	Nuclear Physics	2020-09-06	2020-11-05	0
2018BC5048	3	TOC	2020-09-08	2020-11-07	0
2018BC506	1	OS	2020-09-06	2020-11-05	0
2018BC506	14	Heat and Thermodynamics	2020-09-06	2020-11-05	0
2018BC506	15	Machine Design	2020-09-06	2020-11-05	0
2018BC507	4	Aptitude	2020-09-06	2020-11-05	0
2018BC507	16	Nuclear Physics	2020-09-06	2020-11-05	0

The footer of the page reads '© IIITM Library Management System'.

CHAPTER 4 CONCLUSION

4.1 Conclusion

Since minor project was an individual project, so it was difficult for the developer to follow the approach that a professional team of the developers goes through. We have kept everything simple like front-end, testing, implementation, design, etc. From the proper analysis of the designed web application it can be concluded that the system is 90% efficient there are still some part that are to be implemented in future to make it fully efficient. This web application is working properly and meets the minimum expectations that are required for the Library management system. This new system surely an efficient, usable, reliable and give benefits to users and staff in terms of efficiency.

4.2 Limitations

- Facility of online notice board, audio and video lecture records is not present where students and teachers can put information about any event.
- In this web application no tool for backup is maintained.
- Any failure in the functionalities can stop the working of organization as everything is connected in this system.
- While doing this project due to lack of time complete life cycle for developing software are not taken into account.

4.3 Future Work

For further research work to be carried out. I hereby suggest the following: -

- University library should be developed to support audio, video and a diagrammatic aid to learning.
- One of the major future scope is connecting libraries to a common data centre will provide globalization to the libraries, and then the user will be able to search books all over the city and nearby areas.

- Diagrammatic representation as a lecturing aid should be included in a University Library.
- Facility of an online notice board where teachers and students can put up information about workshops and seminars can be added.

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