M.S.P.VELAYUTHA NADAR LAKSHMITHAIAMMAL POLYTECHNIC COLLEGE

PAVOORCHATRAM- 627 808.

TENKASI.

Department of Computer Engineering

Scripting Languages practical

Mini Project Report: 2024-2025

Project title-Here

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M.S.P.VELAYUTHA NADAR LAKSHMITHAIAMMAL

POLYTECHNIC COLLEGE

POVOORCHATRAM – 627 808

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DEPARTMENT OF COMPUTER ENGINEERING

REGISTER NUMBER: ☐☐☐☐☐☐☐☐

Certified that is the bonafide record of project Student **Grading & Ranking System** work done by Name＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿of 4th semester COMPUTER ENGINEERING department during the year 2024-2025 for the partial fulfillment of the curriculum of the DIPLOMA COURSE IN COMPUTER ENGINEERING BRANCH of Directorate of Technical Education, Chennai.

STAFF IN-CHARGE   **HEAD OF THE DEPARTMENT**

Submitted for the board practical Examination held on＿＿＿＿＿＿＿＿＿＿＿＿.

Marks Awarded	
Total Marks	

INTERNAL EXAMINER   **EXTERNAL EXAMINER**

ACKNOWLEDGEMEN

Acknowledgement

First and foremost we would like to thank the almighty, who gave us good health and knowledge to do the project successfully. We would never have been able to finish my project without the guidance of my faculty members, help from friends, and support from my family.

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We are delighted to thank **Mr.F.Ashok JayaKumar M.E.,** Head of the Department of Computer Engineering and our Project Guide for his remarkable and unsparing co-operation

We submit our kind gesture to the project guide **Mr. F.Ashok Jayakumar M.E,** for his guidance and suggestions in executing this project.

We take this opportunity to thank all the Staff Members and Lab Technicians of Computer Engineering department for their support and suggestion give to our project.

Last but not least would like to express my gratitude towards my parents and friends for their whole hearted support, help and throughout our course work and project work.
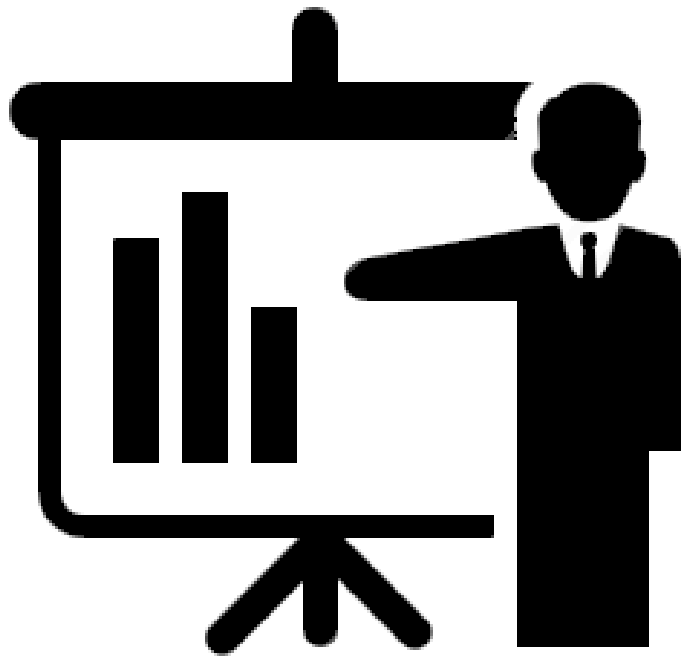
index

INDEX

INTRODUCTION

INTRODUCTION

An Online Library Management System is a software application designed to manage and automate library activities digitally.

It eliminates the need for manual record-keeping by providing a centralized, computer-based platform.

The system allows users to search, borrow, and return books with ease through a user-friendly interface.

It maintains a digital catalog of all available books, journals, magazines, and other resources.

Users can register, log in, and manage their library accounts online.

It reduces administrative workload by automating key tasks like issuing books, tracking due dates, and sending reminders.

The system can generate real-time reports on book availability, user activity, and overdue items.

Librarians can easily add, edit, or delete book entries and manage inventory efficiently.

Advanced search filters help users quickly locate books by title, author, genre, or ISBN.

It enhances user experience by providing 24/7 access to the library from any location with internet access.

Security features ensure only authorized users can access or modify certain data.

Integration with barcode or RFID technology enables faster check-in and check-out processes.

The system can support both physical and digital (e-book) collections.

It improves communication between the library and users via email or in-app notifications.

Cloud-based versions of the system provide scalability, data backup, and remote access capabilities.

ABSTRACT

ABSTRACT

← The Online Library Management System is a digital platform to manage library operations.

← It automates traditional library functions like issuing, returning, and cataloging books.

The system provides a user-friendly interface for both librarians and users.

← Users can search for books by title, author, genre, or ISBN.

← Online registration and login options are available for students and staff.

← The system maintains a digital record of all library transactions.

← Book inventory is automatically updated with each transaction.

← It minimizes human errors associated with manual record-keeping.

← The system tracks due dates and sends automated reminders for book returns.

Librarians can manage users, book stock, and overdue fines.

← Reports on book usage, inventory status, and user activity can be generated easily.

← The system supports multiple user roles with different access levels.

← It is accessible from any device with an internet connection.

← Cloud-based systems provide real-time data syncing and backup.

← Security features protect user data and prevent unauthorized access.

← Integration with barcode or RFID allows quick check-in/check-out of books.

← The system helps reduce paperwork and operational costs.

E-book support allows users to access digital content directly.

← Enhances overall efficiency and transparency in library management.

← Ideal for schools, colleges, universities, and public libraries.

OBJECTIVES

OBJECTIVES

← To automate and streamline daily library operations.

← To provide a centralized digital platform for managing library resources.

← To simplify the process of issuing and returning books.

← To maintain accurate and up-to-date records of all transactions.

← To enable users to search for and reserve books online.

← To reduce manual errors and paperwork in library management.

← To enhance user experience through a simple and intuitive interface.

← To offer 24/7 access to library services from any location.

← To manage book inventory efficiently, including adding, editing, and removing entries.

← To provide automated alerts and reminders for due dates and fines.

← To allow user registration and profile management online.

← To generate detailed reports for librarians and administrators.

← To ensure data security and controlled access for different user roles.

← To support integration with barcode/RFID systems for quick transactions.

← To make the library system scalable and adaptable to future needs.

← To facilitate remote learning and support academic research.

← To save time for both library staff and users.

← To improve communication between the library and its users.

← To promote paperless and eco-friendly library operations.

← To provide backup and recovery features for safeguarding library data.

SYSTEM ANALYSIS
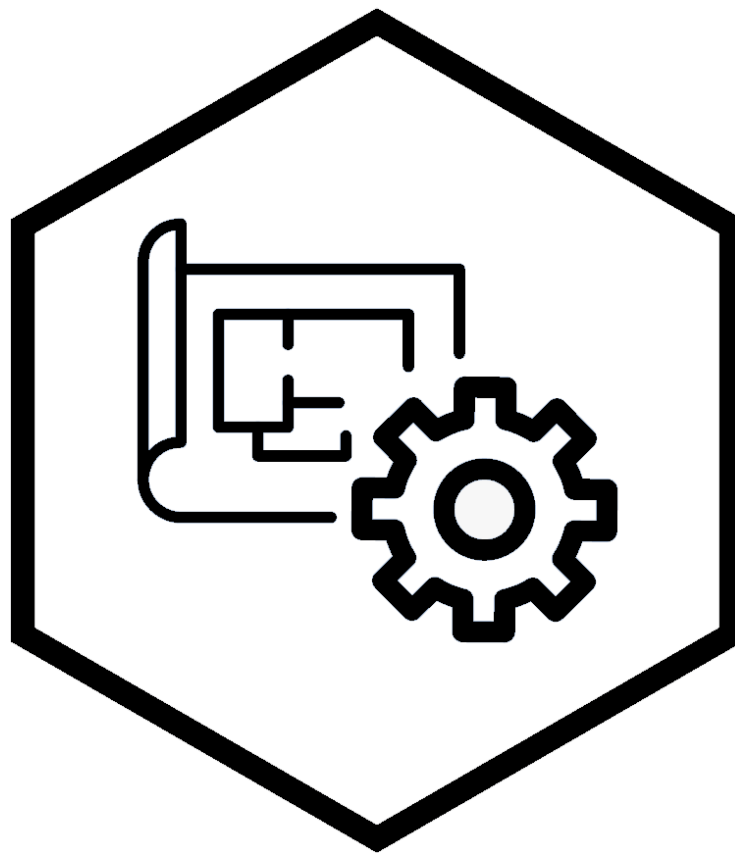
EXISTING SYSTEM

EXISTING SYSTEM

➢ In the existing system the exams are done only manually but in proposed system we have to computerize the exams using this application.

- o Lack of security of data.
- o More man power.
- o Time consuming.
- o Consumes large volume of pare work.
- o Needs manual calculations.
- o No direct role for the higher officials.

PROPOSED SYSTEM
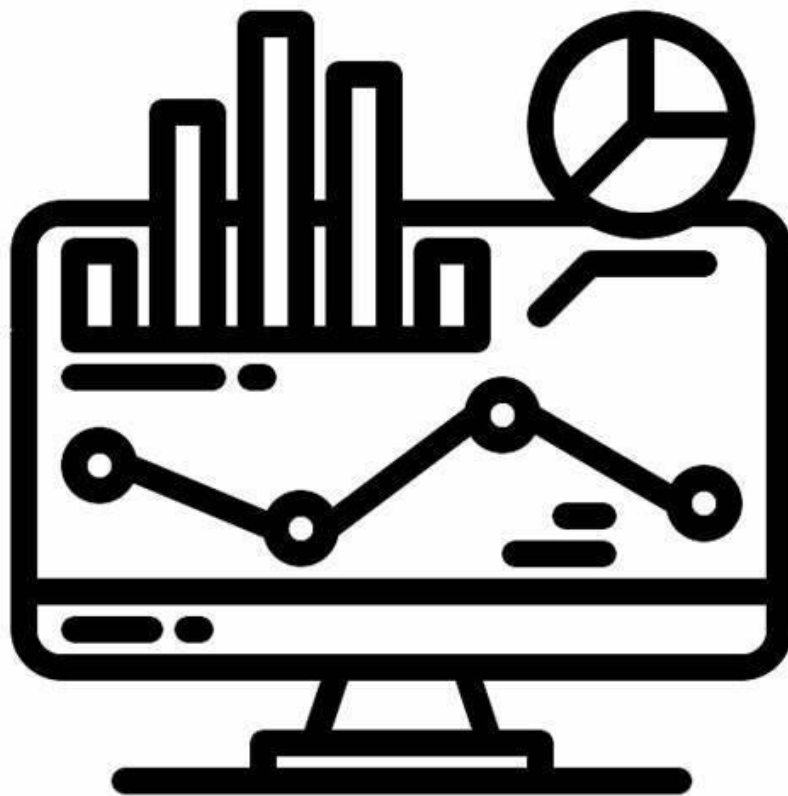
PROPOSED SYSTEM

A web-based platform to manage all library operations digitally.

User login and registration system with roles for students, staff, and admin.

Search and filter feature to find books by title, author, or category.

Online book issue and return tracking with real-time status updates.

Automated alerts for due dates, overdue books, and fines.

Admin panel for adding, editing, or removing books from the catalog.

Barcode or RFID support for quick and accurate book scanning.

Report generation on inventory, user activity, and book circulation.

Data security through role-based access and password protection.

Responsive design making the system accessible on mobile, tablet, and desktop.

FEATURES

FEATURES

FEATURES

⚑ User Management

Allows users to register, log in, and manage their profiles.

Different access levels for students, staff, and administrators.

⚑ Book Search and Catalog

Advanced search options by title, author, genre, ISBN, or publisher.

Real-time access to the library's catalog of books.

⚑ Online Book Issuance and Return

Easy book issue and return functionality with date tracking.

Automatic updates on book availability.

⚑ Automated Notifications

Alerts for due dates, overdue books, and fines through email or app notifications.

Book Reservation

Users can reserve books online, which are held for them until they are available.

Barcode or RFID Integration

Fast and accurate check-in/check-out using barcode or RFID technology.

⚑ Admin Dashboard

Admins can add, edit, or delete book records and manage library operations efficiently.

View reports on book circulation and user activity.

⚑ Inventory Management

Tracks the quantity, status (available/borrowed), and location of each book.

SOFTWARE SPECIFICATION
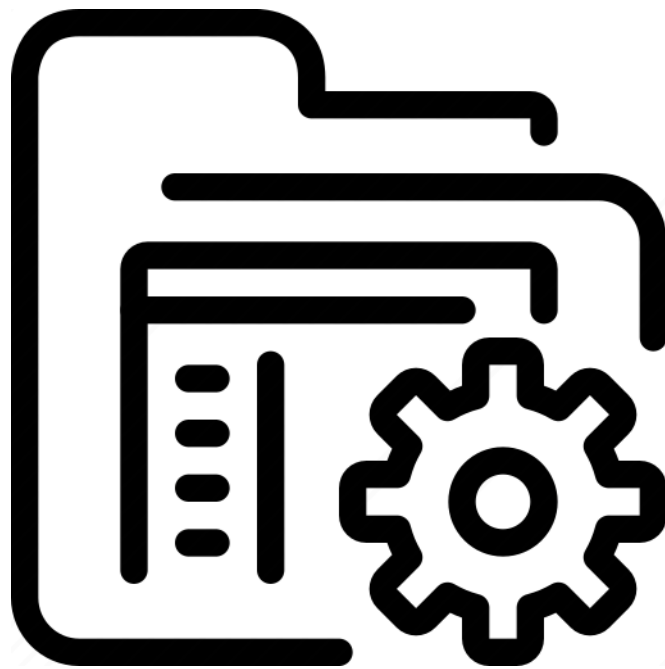
SOFTWARE SPECIFICATION

❖ The various system tools that have been used in developing both the front end and the back end of the project are being discussed in this chapter.

SOFTWARE REQUIREMENTS:

Front end:
>   HTML,CSS,JS

Back end:
>   PHP

Database:
>   Mysql

HARDWARE REQUIREMENTS:

Name of component	Specification
Processor	Pentium III 3.40 GHz
RAM	128 MB
Hard disk	20 GB
Monitor	15" color monitor
Keyboard	122 keys

DFD-DIAGROM

DATA FLOW DIAGRAM :

ADMIN:
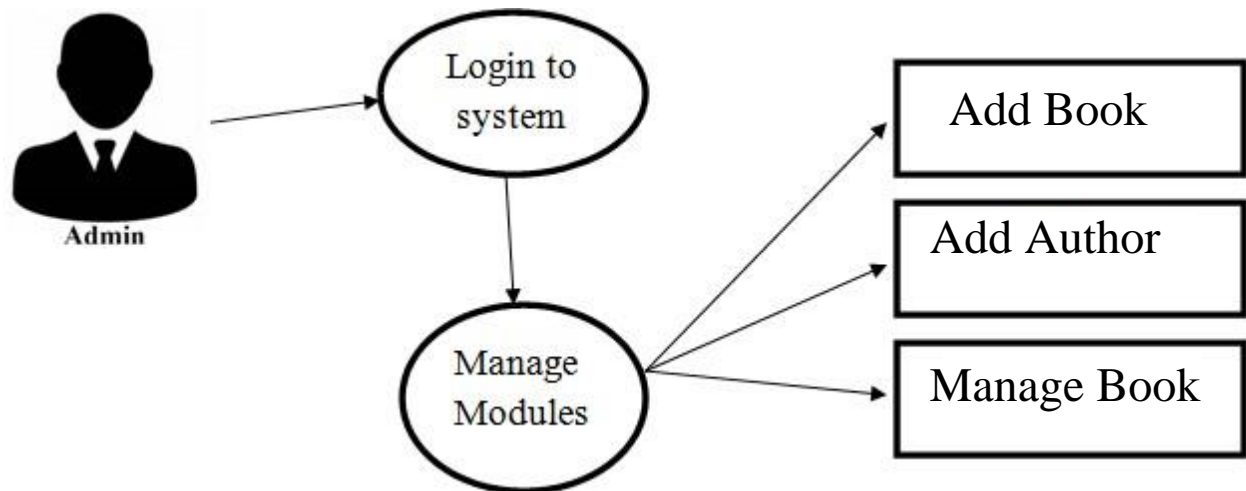
User :
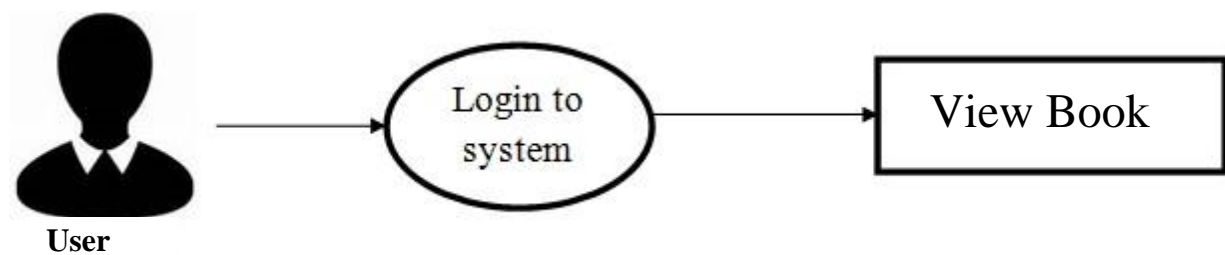
MODULES
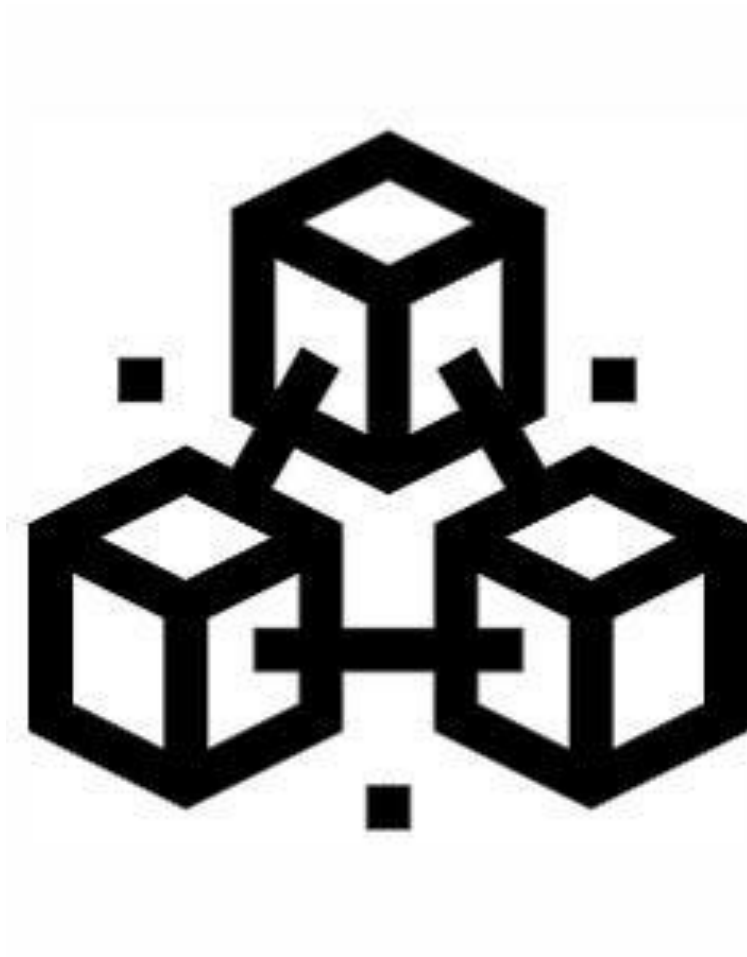
MODULES:
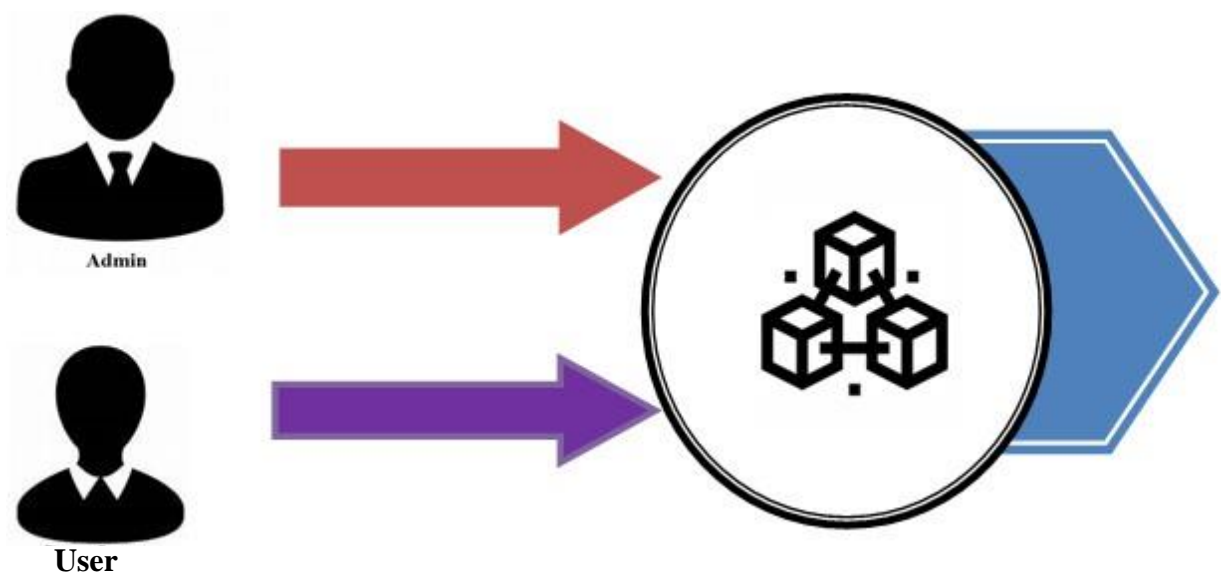
ADMIN MODULE:

The admin has permission for,

- ➢ Login

- ➢ Book list

- ➢ Issued Book

- ➢ Book not returned yet

- ➢ Logout
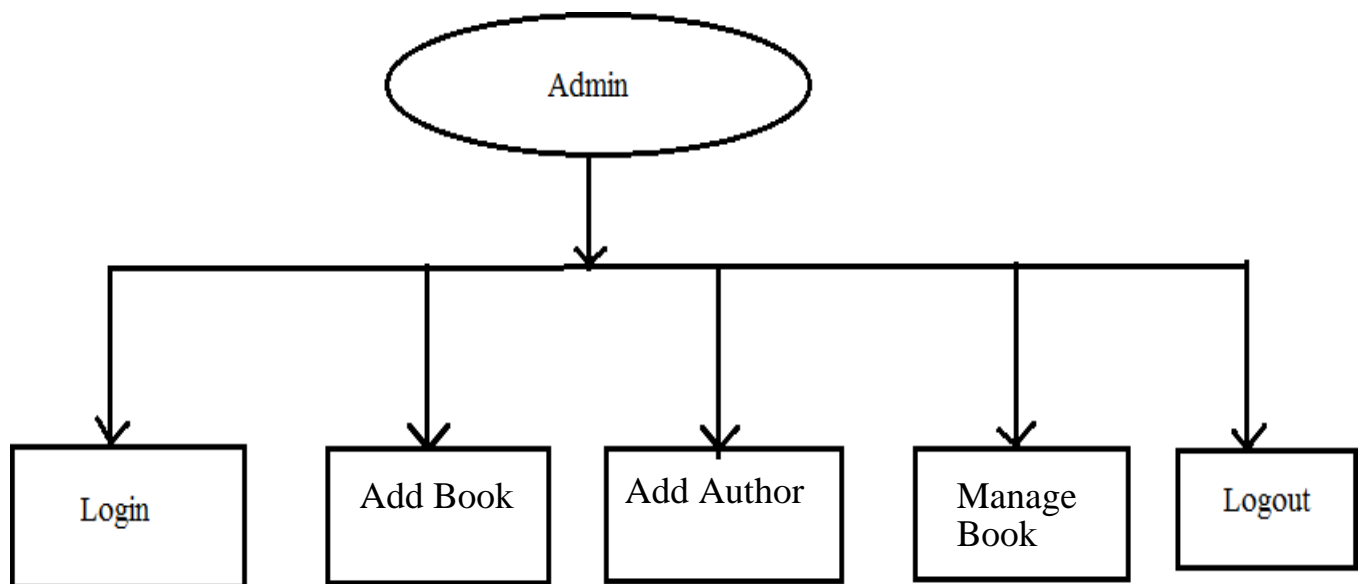
User **MODULE:**

The student has permission for,

- ➢ Login

- ➢ Book list

- ➢ Logout
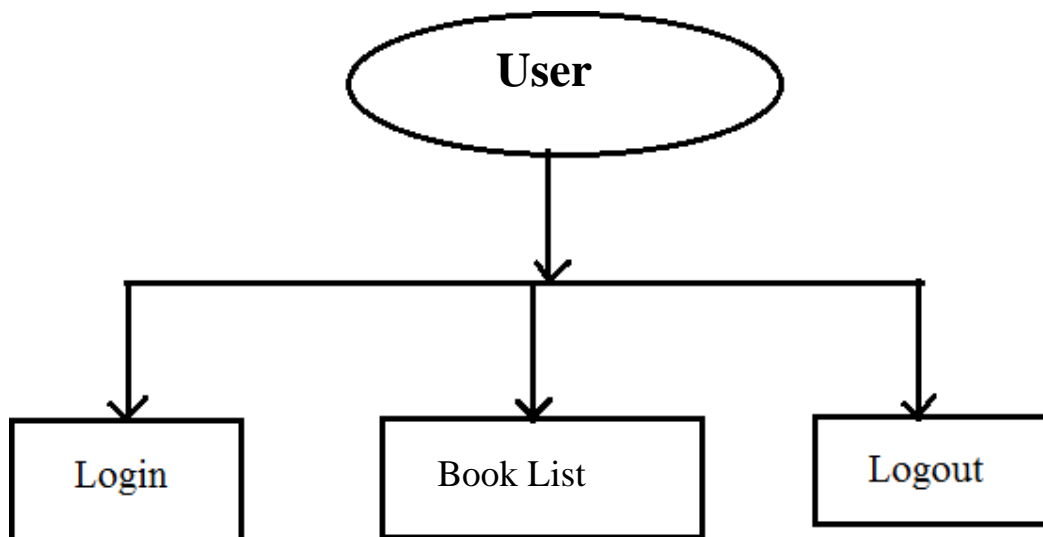
```
                          ┌─────────┐
                          │  User   │
                          └────┬────┘
                               │
              ┌────────────────┼────────────────┐
              ▼                ▼                ▼
        ┌─────────┐     ┌───────────┐    ┌─────────┐
        │  Login  │     │ Book List │    │ Logout  │
        └─────────┘     └───────────┘    └─────────┘
```

DATA BASE

LOGIN

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
☐	1	id 🔑	int(10)			No	None		AUTO_INCREMENT	🖉 Change	⊖ Drop	More
☐	2	user_name	varchar(50)	utf8mb4_general_ci		No	None			🖉 Change	⊖ Drop	More
☐	3	password	varchar(20)	utf8mb4_general_ci		No	None			🖉 Change	⊖ Drop	More
☐	4	status	int(10)			No	None			🖉 Change	⊖ Drop	More

STUDENT_DETAIL

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
☐	1	id 🔑	int(11)			No	None		AUTO_INCREMENT	🖉 Change	⊖ Drop	More
☐	2	StudentId 🔑	varchar(100)	latin1_swedish_ci		Yes	NULL			🖉 Change	⊖ Drop	More
☐	3	FullName	varchar(120)	latin1_swedish_ci		Yes	NULL			🖉 Change	⊖ Drop	More
☐	4	EmailId	varchar(120)	latin1_swedish_ci		Yes	NULL			🖉 Change	⊖ Drop	More
☐	5	MobileNumber	char(11)	latin1_swedish_ci		Yes	NULL			🖉 Change	⊖ Drop	More
☐	6	Password	varchar(120)	latin1_swedish_ci		Yes	NULL			🖉 Change	⊖ Drop	More
☐	7	Status	int(1)			Yes	NULL			🖉 Change	⊖ Drop	More
☐	8	RegDate	timestamp			Yes	current_timestamp()			🖉 Change	⊖ Drop	More
☐	9	UpdationDate	timestamp			Yes	NULL		ON UPDATE CURRENT_TIMESTAMP()	🖉 Change	⊖ Drop	More

Student_Issued:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id 🔑	int(11)			No	None		AUTO_INCREMENT	🖉 Change ⊖ Drop More
2	BookId	int(11)			Yes	NULL			🖉 Change ⊖ Drop More
3	StudentID	varchar(150)	latin1_swedish_ci		Yes	NULL			🖉 Change ⊖ Drop More
4	IssuesDate	timestamp			Yes	current_timestamp()			🖉 Change ⊖ Drop More
5	ReturnDate	timestamp			Yes	NULL		ON UPDATE CURRENT_TIMESTAMP()	🖉 Change ⊖ Drop More
6	RetrunStatus	int(1)			Yes	NULL			🖉 Change ⊖ Drop More
7	fine	int(11)			Yes	NULL			🖉 Change ⊖ Drop More

Table structure   Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	id 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
2	CategoryName	varchar(150)	latin1_swedish_ci		Yes	NULL			Change	Drop	More
3	Status	int(1)			Yes	NULL			Change	Drop	More
4	CreationDate	timestamp			Yes	current_timestamp()			Change	Drop	More
5	UpdationDate	timestamp			Yes	0000-00-00 00:00:00		ON UPDATE CURRENT_TIMESTAMP()	Change	Drop	More

Table structure   Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	id 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
2	BookName	varchar(255)	latin1_swedish_ci		Yes	NULL			Change	Drop	More
3	CatId	int(11)			Yes	NULL			Change	Drop	More
4	AuthorId	int(11)			Yes	NULL			Change	Drop	More
5	ISBNNumber	varchar(25)	latin1_swedish_ci		Yes	NULL			Change	Drop	More
6	BookPrice	decimal(10,2)			Yes	NULL			Change	Drop	More
7	bookImage	varchar(250)	latin1_swedish_ci		No	None			Change	Drop	More
8	isIssued	int(1)			Yes	NULL			Change	Drop	More
9	RegDate	timestamp			Yes	current_timestamp()			Change	Drop	More
10	UpdationDate	timestamp			Yes	NULL		ON UPDATE CURRENT_TIMESTAMP()	Change	Drop	More

authors

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id 🔑	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	AuthorName	varchar(159)	latin1_swedish_ci		Yes	NULL			Change Drop More
3	creationDate	timestamp			Yes	current_timestamp()			Change Drop More
4	UpdationDate	timestamp			Yes	NULL		ON UPDATE CURRENT_TIMESTAMP()	Change Drop More

admin

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id 🔑	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	FullName	varchar(100)	latin1_swedish_ci		Yes	NULL			Change Drop More
3	AdminEmail	varchar(120)	latin1_swedish_ci		Yes	NULL			Change Drop More
4	UserName	varchar(100)	latin1_swedish_ci		No	None			Change Drop More
5	Password	varchar(100)	latin1_swedish_ci		No	None			Change Drop More
6	updationDate	timestamp			No	0000-00-00 00:00:00		ON UPDATE CURRENT_TIMESTAMP()	Change Drop More

SAMPLE CODING
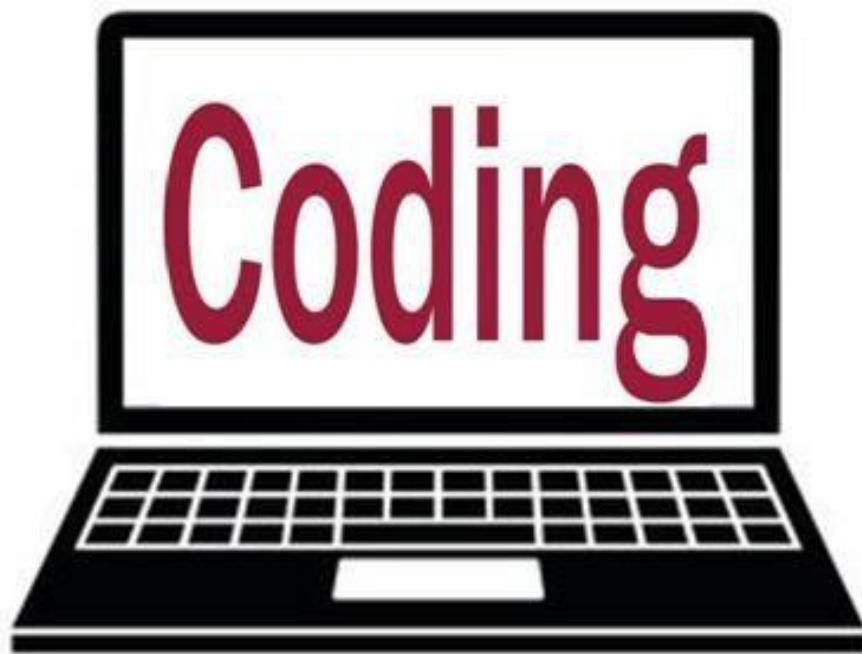
Index.php

```php
<?php
session_start();
error_reporting(0);
include('includes/config.php');
if($_SESSION['login']!=''){
$_SESSION['login']='';
}
if(isset($_POST['login']))
{

$email=$_POST['emailid'];
$password=md5($_POST['password']);
$sql ="SELECT EmailId,Password,StudentId,Status FROM tblstudents WHERE EmailId=:email and
Password=:password";
$query= $dbh -> prepare($sql);
$query-> bindParam(':email', $email, PDO::PARAM_STR);
$query-> bindParam(':password', $password, PDO::PARAM_STR);
$query-> execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);

if($query->rowCount() > 0)
{
 foreach ($results as $result) {
 $_SESSION['stdid']=$result->StudentId;
if($result->Status==1)
{
$_SESSION['login']=$_POST['emailid'];
echo "<script type='text/javascript'> document.location ='dashboard.php'; </script>";
} else {
echo "<script>alert('Your Account Has been blocked .Please contact admin');</script>";

}
}

}
else{
echo "<script>alert('Invalid Details');</script>";
}
}

?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
   <meta charset="utf-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />
   <meta name="description" content="" />
   <meta name="author" content="" />
   <title>Online Library Management System | </title>
```

```
<!-- BOOTSTRAP CORE STYLE  -->
<link href="assets/css/bootstrap.css" rel="stylesheet" />
<!-- FONT AWESOME STYLE  -->
<link href="assets/css/font-awesome.css" rel="stylesheet" />
<!-- CUSTOM STYLE  -->
<link href="assets/css/style.css" rel="stylesheet" />
<!-- GOOGLE FONT -->
<link href='http://fonts.googleapis.com/css?family=Open+Sans' rel='stylesheet' type='text/css' />

</head>
<body>
   <!------MENU SECTION START-->
<?php include('includes/header.php');?>
<!-- MENU SECTION END-->
<div class="content-wrapper">
<div class="container">
<!--Slider---->
    <div class="row">
         <div class="col-md-10 col-sm-8 col-xs-12 col-md-offset-1">
              <div id="carousel-example" class="carousel slide slide-bdr" data-ride="carousel" >
              <div class="carousel-inner">
                <div class="item active">
                   <img src="assets/img/1.jpg" alt="" />
                </div>
                <div class="item">
                   <img src="assets/img/2.jpg" alt="" />
                </div>
                <div class="item">
                   <img src="assets/img/3.jpg" alt="" />
                </div>
              </div>
              <!--INDICATORS-->
               <ol class="carousel-indicators">
                 <li data-target="#carousel-example" data-slide-to="0" class="active"></li>
                 <li data-target="#carousel-example" data-slide-to="1"></li>
                 <li data-target="#carousel-example" data-slide-to="2"></li>
              </ol>
              <!--PREVIUS-NEXT BUTTONS-->
               <a class="left carousel-control" href="#carousel-example" data-slide="prev">
  <span class="glyphicon glyphicon-chevron-left"></span>
 </a>
 <a class="right carousel-control" href="#carousel-example" data-slide="next">
  <span class="glyphicon glyphicon-chevron-right"></span>
 </a>
           </div>
         </div>
         </div>
<hr />
```

```html
<div class="row pad-botm">
<div class="col-md-12">
<h4 class="header-line">USER LOGIN FORM</h4>
</div>
</div>
 <a name="ulogin"></a>
<!--LOGIN PANEL START-->
<div class="row">
<div class="col-md-6 col-sm-6 col-xs-12 col-md-offset-3" >
<div class="panel panel-info">
<div class="panel-heading">
 LOGIN FORM
</div>
<div class="panel-body">
<form role="form" method="post">

<div class="form-group">
<label>Enter Email id</label>
<input class="form-control" type="text" name="emailid" required autocomplete="off" />
</div>
<div class="form-group">
<label>Password</label>
<input class="form-control" type="password" name="password" required autocomplete="off"  />
<p class="help-block"><a href="user-forgot-password.php">Forgot Password</a></p>
</div>


 <button type="submit" name="login" class="btn btn-info">LOGIN </button> | <a href="signup.php">Not
Register Yet</a>
</form>
 </div>
</div>
</div>
</div>
<!---LOGIN PABNEL END-->


   </div>
   </div>
   <!-- CONTENT-WRAPPER SECTION END-->
 <?php include('includes/footer.php');?>
    <!-- FOOTER SECTION END-->
   <script src="assets/js/jquery-1.10.2.js"></script>
   <!-- BOOTSTRAP SCRIPTS  -->
   <script src="assets/js/bootstrap.js"></script>
    <!-- CUSTOM SCRIPTS   -->
   <script src="assets/js/custom.js"></script>

</body>
</html>
```

SCREENSHORTS

HOME:

Online Library Management System

HOME   USER LOGIN   USER SIGNUP   ADMIN LOGIN
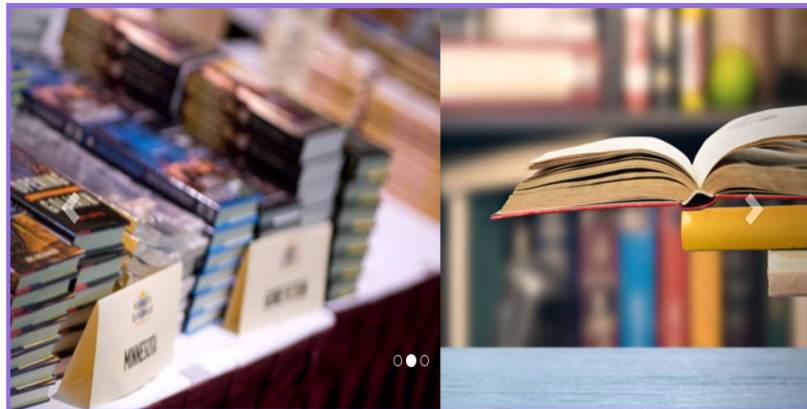
USER LOGIN FORM

ADMIN LOGIN:

Online Library Management System

HOME   USER LOGIN   USER SIGNUP   ADMIN LOGIN

ADMIN LOGIN FORM

LOGIN FORM

Enter Username

admin

Password

....

LOGIN

ADMIN_PAGE:

Online Library Management System		LOG ME OUT

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

ADMIN DASHBOARD

9	0	9	11
Books Listed	Books Not Returned Yet	Registered Users	Authors Listed

6
Listed Categories

ADD BOOK:

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

ADD BOOK

Book Info

Book Name*

Category*

Select Category

Author*

Select Author

ISBN Number*

An ISBN is an International Standard Book Number.ISBN Must be unique

Price*

Book Picture*

Choose File No file chosen

Submit

Add Author

Online Library Management System

LOG ME OUT

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

ADD AUTHOR

Author Info

Author Name

Add

Manage Author

Online Library Management System

LOG ME OUT

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

MANAGE AUTHORS

Authors Listing

10 ˅ records per page   Search:

#	Author	Creation Date	Updation Date	Action
1	Anuj kumar	2024-01-25 12:53:03	2024-02-04 12:04:19	Edit Delete
2	Chetan Bhagatt	2024-01-25 12:53:03	2024-02-04 12:04:26	Edit Delete
3	Anita Desai	2024-01-25 12:53:03	2024-02-04 12:04:26	Edit Delete
4	HC Verma	2024-01-25 12:53:03	2024-02-04 12:04:26	Edit Delete
5	R.D. Sharma	2024-01-25 12:53:03	2024-02-04 12:04:26	Edit Delete
6	fwdfrwer	2024-01-25 12:53:03	2024-02-04 12:04:26	Edit Delete
7	Dr. Andy Williams	2024-01-25 12:53:03	2024-02-04 12:04:26	Edit Delete
8	Kyle Hill	2024-01-25 12:53:03	2024-02-04 12:04:26	Edit Delete
9	Robert T. Kiyosak	2024-01-25 12:53:03	2024-02-04 12:04:26	Edit Delete
10	Kelly Barnhill	2024-01-25 12:53:03	2024-02-04 12:04:26	Edit Delete

Showing 1 to 10 of 11 entries   Previous 1 2 Next

Add category

Online Library
Management System

LOG ME OUT

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

ADD CATEGORY

Category Info

Category Name

Status

⦿ Active

○ Inactive

Create

Manage category

Online Library
Management System

LOG ME OUT

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

MANAGE CATEGORIES

Categories Listing

10 ⌄	records per page				Search:
#	Category	Status	Creation Date	Updation Date	Action
1	Romantic	Active	2024-01-31 12:53:03	2024-02-04 12:03:43	Edit Delete
2	Technology	Active	2024-01-31 12:53:03	2024-02-04 12:03:51	Edit Delete
3	Science	Active	2024-01-31 12:53:03	2024-02-04 12:03:51	Edit Delete
4	Management	Active	2024-01-31 12:53:03	2024-02-04 12:03:51	Edit Delete
5	General	Active	2024-01-31 12:53:03	2024-02-04 12:03:51	Edit Delete
6	Programming	Active	2024-01-31 12:53:03	2024-02-04 12:03:51	Edit Delete

Showing 1 to 6 of 6 entries

Previous   1   Next

User   LOGIN:

USER LOGIN FORM

LOGIN FORM

Enter Email id

Ganapathy

Password

....

Forgot Password

LOGIN | Not Register Yet

User Signup

USER SIGNUP

SINGUP FORM

Enter Full Name

Mobile Number :

Enter Email

admin

Enter Password

....

Confirm Password

Register Now

User DashBoard:

Online Library Management System

LOG ME OUT

DASHBOARD   ISSUED BOOKS   ACCOUNT ﹀

USER DASHBOARD

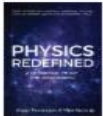| 9	0	
Books Listed	Books Not Returned Yet	Issued Books

Book List

MANAGE ISSUED BOOKS

Issued Books

ut Contact

PHP And MySql programming
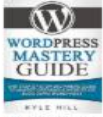Technology
Anuj kumar
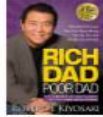222333

physics
Science
HC Verma
1111

Murach's MySQL
Technology
Anuj kumar
9350237695

WordPress for Beginners 2022: A Visual Step-by-Step
Guide to Mastering WordPress
Technology
Dr. Andy Williams
B019MO3WCM

WordPress Mastery Guide:
Technology
Kyle Hill
B09NKWH7NP

Rich Dad Poor Dad: What the Rich Teach Their Kids
About Money That the Poor and Middle Class Do Not
General
Robert T. Kiyosak
B07C7M8SX9

The Girl Who Drank the Moon
General
Kelly Barnhill
1848126476

C++: The Complete Reference, 4th Edition
Technology
Herbert Schildt
007053246X

ASP.NET Core 5 for Beginners
Programming
Kyle Hill
GBSJ36344563

CONCLUSION

<u>CONCLUSION</u>

The Online Library Management System greatly simplifies and automates the management of library resources. It enables users to easily search for, borrow, and return books while allowing librarians to efficiently track inventory, user activity, and overdue returns. By reducing manual work, improving accessibility, and minimizing errors, the system enhances the overall library experience for both staff and readers. As digital needs continue to grow, online library management systems are essential for maintaining organized, user-friendly, and future-ready libraries.

Efficient Management:
The system improves the organization and handling of library resources with minimal human effort.

Time-Saving:
Users and librarians can complete tasks like searching, issuing, and returning books much faster.

Easy Accessibility:
Users can access the library system anytime and from anywhere, promoting wider usage.

Error Reduction:
Automation reduces common manual errors in tracking books and user records.

Enhanced User Experience:
A user-friendly interface and quick services make the library more accessible and enjoyable for everyone.