VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belgaum-590018



A Database Management System Mini Project Report on

"LIBRARY MANAGEMENT SYSTEM"

Submitted in Partial fulfillment of the Requirements for the V Semester of the Degree of

Bachelor of Engineering
In
Computer Science & Engineering
By

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Under the Guidance of

Dr. Sugato Chakrabarty Professor, Dept. of CSE



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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CERTIFICATE

This is to certify that the Database Management System Project work entitled "LIBRARY MANAGEMENT SYSTEM" has been carried out by

M B Ashish (1CR17CS066) and Neeraj Kumar (1CR17CS080) bonafide students of CMR Institute of Technology in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of the Visvesvaraya Technological University, Belgaum during the year 2019-2020. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. This DBMS Project Report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

Signature of HOD

Dr. Sugato Chakrabarty Professor Dept. of CSE, CMRIT Dr. Prem Kumar Ramesh Professor, Head Dept. of CSE, CMRIT

External Viva

Name of the examiners

Signature with date

1.

ABSTRACT

The Aim of this project is to make a stand alone application which is related to aspects of Library Management. We have tried to cover basic functions of Library Management Application.

This is an admin side application. The admin can register new students, view student details, add new books to the library and issue books to students.

This project has been developed using web technologies such as HTML and CSS for frontend, PHP for server side scripting and MySql to maintain a database.

ACKNOWLEDGEMENT

The satisfaction and euphoria that accompany a successful completion of any task would be incomplete without the mention of people who made it possible, success is the epitome of hardwork and perseverance, but steadfast of all is encouraging guidance.

So, with gratitude I acknowledge all those whose guidance and encouragement served as beacon of light and crowned our efforts with success.

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M B ASHISH NEERAJ KUMAR

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LIST OF FIGURES AND TABLES

FIGURE NAME	FIGURE TYPE	FIGURE DESCRIPTION
Student	Table	A table for storing student details.
Books	Table	A table for storing data about the books.
Book_Author	Table	A table for storing author names.
Publisher	Table	A table for storing details of publisher.
BookLending	Table	A table for storing details of book lending.
Book_Copies	Table	A table for storing copies of book available.
Login	Table	A table to store admin login credentials
Find2	Stored Procedure	A stored procedure to execute a query to display the data present in quantity table.
Book_copies	Trigger	A trigger to calculate the remaining books available in the library.
Schema diagram	Diagram	Schema diagram of the database
E R diagram	Diagram	E R diagram of the database
Login Page	Screenshot	Screenshot of Login page
Home Page	Screenshot	Screenshot of Home page

Student Registration and detail	Screenshot	Screenshot of student registration and details section
Student Register	Screenshot	Screenshot of student register page
Student Detail	Screenshot	Screenshot of student details
Book Info	Screenshot	Screenshot of book info section
Book Update	Screenshot	Screenshot of book update page
Book Issue	Screenshot	Screenshot of book issue page
Book Return	Screenshot	Screenshot of book return page
Books Available	Screenshot	Screenshot of books available page



INTRODUCTION

This database focuses on the following sectors of Library Management:

- Student Record
- Books Record
- Author Record
- Publisher Record
- Book Lending Details
- Issuing and Returning Of Books

The Admin can access the system in order to register new students, view student details, update the books catalogue, issue books to students, view all the issued books to students.

The Admin of the system acts as a communicator for the access to the system operations.

The Admin logs into to the System with the correct login credentials. The Admin can register new students, view the student details and their issued books, Admin can update new books, issue books to students and recollect the books.



SYSTEM REQUIREMENTS

Section 2.1

Hardware Requirements

• Processor: Intel Core i5

• Processor Speed: 2.3 GHz

• RAM: 4GB

• Storage: 50GB

Section 2.2

Software Requirements:

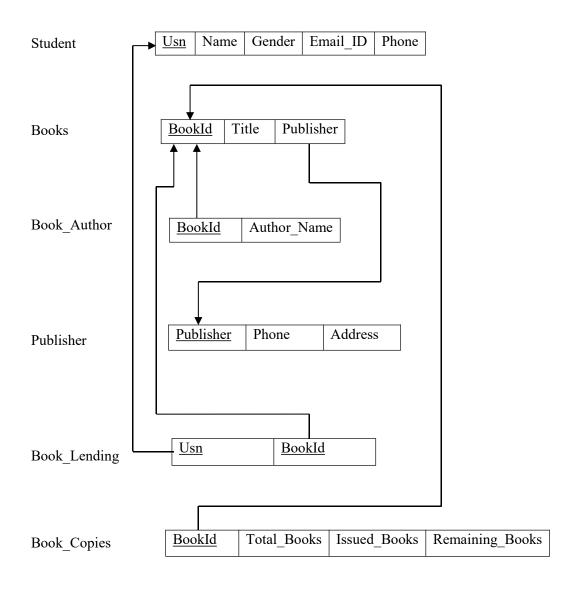
- Operating System: Windows
- Apache Web Server (2.4.xx)
- Mysql Server
- Or XAMPP 3.2.4 (Apache and Mysql Included)
- **Web Browser**: Google Chrome/Mozilla Firefox/Internet Explorer



DESIGN

Section 3.1

Schema

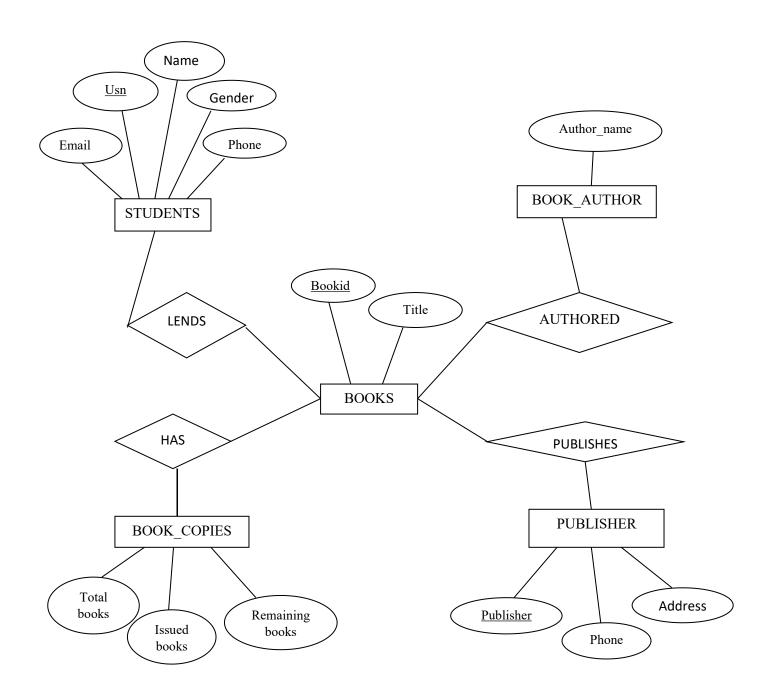


3.1 Schema Diagram



Section 3.2

ER DIAGRAM



3.2 E R Diagram



IMPLEMENTATION

Section 4.0

Login Page

```
<?php
include('login.php'); // Includes Login Script
if(isset($ SESSION['login user'])){
header("location: profile.php"); // Redirecting To Profile Page
}
?>
<!DOCTYPE html>
<html>
<head>
<title> Admin Login</title>
<link rel="stylesheet" href="/assets/css/masterlogin.css">
</head>
<body>
<div class="login-box">
<h2>Library Management Admin Login</h2> <br>
<form action="" method="post">
<label>Username :</label>
<input id="name" name="username" placeholder="enter your username"</pre>
type="text">
<label>Password :</label>
<input id="password" name="password" placeholder="*******"</pre>
type="password"><br><br>
```

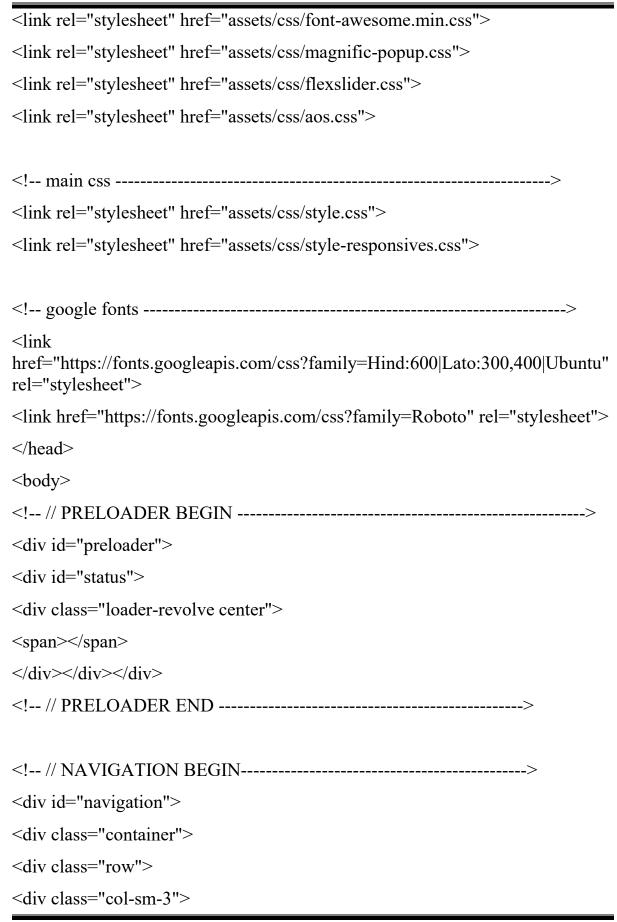


```
<input name="submit" type="submit" value=" Login ">
<span><?php echo $error; ?></span>
</form></div>
</body>
```

Home Page

```
<?php
include('session.php');
if(!isset($ SESSION['login user'])){
// Redirecting Back To Login Page on Logging-out.
header("location: index.php"); }
?>
<meta http-equiv="content-type" content="text/html;charset=UTF-8" />
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Library Management, Website for CMRIT</pre>
      ">
<meta name="keywords" content="Library Management CMRIT, Online</pre>
Courses CMRIT ">
<title> Library Management | CMRIT</title>
k rel="shortcut icon" type="image/x-icon" href="assets/img/4.jfif">
<link rel="stylesheet" href="assets/css/bootstrap.min.css">
```







```
<div class="logo">
<a href="index.html">Library Management CMRIT </a>
</div>
<!--// LOGOUT----->
<div id="profile">
<b style="color:white" id="welcome">Welcome : <i>?php echo
$login_session; ?></i></b><br
</div>
<!---->
</div>
<div class="col-sm-9">
<div class="navigation-menu">
<div class="navbar">
<div class="navbar-header">
<button type="button" class="navbar-toggle" data-toggle="collapse" data-</pre>
target=".navbar-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button></div>
<div class="navbar-collapse collapse">
ul class="nav navbar-nav navbar-right">
<a class="active smoth-scroll" href="#particles-js">Home</a>
<a class="smoth-scroll" href="#about">Book Info.</a>
<a class="smoth-scroll" href="#portfolio">Register</a>
<a class="smoth-scroll" href="#contact">Contact</a>
<a id="logout" href="logout.php" style="color:silver">Log Out</a>
</div></div>
```



```
</div></div></div>
<!-- // NAVIGATION END ----->
<!-- // HOME BEGIN ----->
<div id="particles-js" class="home-bg" style="background-image:</pre>
url('assets/img/2.jpg')" data-stellar-background-ratio="0.6">
<div class="overlay">
<div class="container">
<div class="row">
<div class="home-text">
<div class="profile-pic" data-aos="fade-zoom-in" data-aos-easing="ease-in-</pre>
back" data-aos-delay="400"
data-aos-offset="0">
<img src="assets/img/4.jfif"/>
</div>
<div data-aos="fade-zoom-in" data-aos-easing="ease-in-back" data-aos-</pre>
delay="400" data-aos-offset="0">
<h1>Library Management CMRIT</h1>
<h3 id="text-rotator">
<div>Dive Deep into Concepts</div>
<div>Where Learning Never STOPS</div>
<div>CMRIT Bengaluru</div>
</h3></div></div>
<a class="smoth-scroll" href="#about"><i class="fa fa-angle-down"
arrow"></i></a>
</div></div></div>
<!-- particles-js style ----->
<style type="text/css" media="screen">
#particles-js
```



```
background-image: url('assets/img/2.jpg');
height: 100vh;
}
</style>
<!-- // HOME END ----->
<!-- // ABOUT BEGIN ----->
<section id="about">
<div class="container">
<div class="row">
<div class="description col-md-6 col-sm-4 col-xs-12">
<h2> Welcome to our <strong style="color: #4cd137"> Library </strong></h2>
<h4> DBMS Project | CMRIT Bengaluru, India</h4>
Our Project <em> 'LIBRARY MANAGEMENT' </em> sole purpose is
to build a system is to manage library daily operation efficiently.
<br/>br> </div>
<div class="facts col-md-5 col-sm-5 col-xs-12">
<div class="row">
<div class="col-md-6 col-sm-6 col-xs-6">
<div class="count-item">
<div class="numscroller" data-slno='1' data-min='0' data-max='40000' data-</pre>
delay='6' data-increment="50">50</div>
<div class="count-name-intro">e-Books <i class="fa fa-book"></i></div>
</div>
<div class="col-md-6 col-sm-6 col-xs-6">
<div class="count-item">
<div class="numscroller" data-slno='1' data-min='0' data-max='1700' data-</pre>
delay='6' data-increment="2">95</div>
<div class="count-name-intro">Journals <i class="fa fa-file-text"></i></div>
```



```
</div></div></div></div>
</div></section>
<!-- // ABOUT END ----->
<section id="portfolio">
<div class="container text-center">
<div class="row">
<div class="col-md-20 text-center">
<h2> Student Registeration | Registered Student Details </h2>
</div>
<div class="col-md-18 col-sm-6">
<div class="blog-item">
<div class="blog-desc">
< h4 >
<a > Student Registeration</a>
</h4>
<a href="form.html" target=" blank" class="btn btn-dark " id="register">
Student Register</a>
</div></div>
<div class="col-md-4 col-sm-6">
<div class="blog-item">
<div class="blog-desc">
<h4><a > Student Details</a></h4>
<a href="studentdetails.php" target=" blank" class="btn btn-dark "
id="register">Student Details</a></div>
</div></div></div></section>
<section id="blog">
<div class="container text-center">
<div class="row">
```



```
<div class="col-md-12 text-center">
<h2>Books Available | Issue | Update </h2>
</div>
<div class="col-md-4 col-sm-6">
<div class="blog-item">
<a class="blog-img">
<img src="assets/img/7.jpg">
</a>
<div class="blog-desc">
<h4><a > Books Available</a></h4>
This section contains the list of available books- currently in our CMRIT
library depository.
<a href="booksavailable.php" target=" blank" class="btn btn-dark"
id="readmore">View</a>
</div></div>
<div class="col-md-4 col-sm-6">
<div class="blog-item">
<a class="blog-img">
<img src="assets/img/7.png">
</a>
<div class="blog-desc">
< h4 >
<a > Book Issue/Return</a>
</hd>This section of Books Info. contains the list of issued/return
books.
<a href="booksissue.html" target=" blank" class="btn btn-dark"
id="readmore">Issue</a>
<a href="reissue.html" target=" blank" class="btn btn-dark "
id="register">Return</a>
</div>
```



```
</div>
</div>
<div class="col-md-4 col-sm-6">
<div class="blog-item">
<a class="blog-img">
<img src="assets/img/img3.jfif">
</a>
<div class="blog-desc">
< h4>
<a > Update </a>
</h4>
Updating on the books information- i.e addition of books.
<a href="update.html" target=" blank" class="btn btn-dark "
id="register">Enter</a></div></div>
</div></div></section>
<!-- // FOOTER BEGIN ----->
<footer id="contact">
<div class="container">
<div class="col-md-12 text-center">
<h3> CONNECT WITH US.</h3>
<a href="https://twitter.com/cmritspeaks?lang=en" target=" blank"><i href="https://twitter.com/cmritspeaks?lang=en" target=" blank"></ href="https://twitspeaks?lang=en" target=" blank"></ href="
class="fa fa-twitter"></i></a>
<a href="https://www.linkedin.com/school/cmr-institute-of-
technology/?originalSubdomain=in" target=" blank"><i class="fa fa-
linkedin"></i></a>
<a href="mailto:info@cmrit.ac.in" target=" blank"><i class="fa fa-
envelope"></i></a>

</div></div></footer>
<!-- // FOOTER END ------
```



```
<!-- is plugin -----
<script src="assets/js/jquery.js"></script>
<script src="assets/js/bootstrap.min.js"></script>
<script src="assets/js/jquery.stellar.min.js"></script>
<script src="assets/js/text-rotate.js"></script>
<script src="assets/js/numscroller.js"></script>
<script src="assets/js/jquery.appear.js"></script>
<script src="assets/js/progress-bar.min.js"></script>
<script src="assets/js/jquery.mixitup.js"></script>
<script src="assets/js/jquery.magnific-popup.min.js"></script>
<script src="assets/js/magnific-popup-options.js"></script>
<script src="assets/js/jquery.flexslider-min.js"></script>
<script src="assets/js/aos.js"></script>
<script src="assets/js/jquery.form.js"></script>
<script src="assets/js/jquery.validate.min.js"></script>
<script src="particles.js"></script>
<script src="app.js"></script>
<!-- main is -----
<script src="assets/js/main.js"></script>
</body>
```

Student Register Page

```
<?php
$usn = $_POST['usn'];
$username = $_POST['username'];
$gender = $_POST['gender'];
$phone = $_POST['phone'];</pre>
```



```
$email = $ POST['email'];
$password = $ POST['password'];
if (!empty($usn) || !empty($username) || !empty($gender) || !empty($phone)
| !empty($email) | !empty($password)) {
$host = "localhost";
$dbUsername = "root";
$dbPassword = "";
$dbname = "library cmrit";
//create connection
$conn = new mysqli($host, $dbUsername, $dbPassword, $dbname);
if (mysqli connect error()) {
die('Connect Error('. mysqli connect error().')'. mysqli connect error());
else {
$SELECT = "SELECT email From student Where email = ? Limit 1";
$INSERT = "INSERT Into student values(?,?,?,?,?)";
//Prepare statement
$stmt = $conn->prepare($SELECT);
$stmt->bind param("s", $email);
$stmt->execute();
$stmt->bind result($email);
$stmt->store result();
$rnum = $stmt->num rows;
if ($rnum==0) {
$stmt->close();
$stmt = $conn->prepare($INSERT);
$stmt->bind param("sssiss", $usn, $username, $gender, $phone, $email,
$password);
$stmt->execute();
echo "New record inserted sucessfulsly";
}
else
{echo "Someone already register using this email";}
$stmt->close();
$conn->close();
}}
else { echo "All field are required"; die(); }
?>
```



Student Details Page

```
<!DOCTYPE html>
<html>
<head>
<title>Student Details</title>
<style>
table {
border-collapse: collapse;
width: 100%;
color: #588c7e;
font-family: monospace;
font-size: 25px;
text-align: left;
}
th {
background-color: #588c7e;
color: white;
tr:nth-child(even) {background-color: #f2f2f2}
</style></head>
<body>
>
Usn
Username
Gender
Phone
Email
<?php
$conn = mysqli connect("localhost", "root", "", "library cmrit");
// Check connection
if ($conn->connect error) {
die("Connection failed: " . $conn->connect_error); }
$sql = "SELECT * FROM student";
\text{serv} = \text{conn->query($sql)};
if (\frac{\text{sresult->num rows}}{0}) {
// output data of each row
```



Book Update Page

```
<?php
$bookid = $ POST['bookid'];
$title = $ POST['title'];
$publisher = $ POST['publisher'];
$address = $ POST['address'];
$phone = $ POST['phone'];
$totalbooks = $ POST['totalbooks'];
sissuedbooks = 0;
$remainingbooks=$totalbooks;
if (!empty($bookid) || !empty($title) || !empty($publisher) || !empty($address)
| !empty($phone) | !empty($totalbooks) ) {
$host = "localhost";
$dbUsername = "root";
$dbPassword = "";
$dbname = "library cmrit";
//create connection
```



```
$conn = new mysqli($host, $dbUsername, $dbPassword, $dbname);
if (mysqli connect error()) {
die('Connect Error('. mysqli connect error().')'. mysqli connect error());
} else {
$SELECT = "SELECT bookid From books Where bookid = ? Limit 1";
$INSERT = "INSERT Into books (bookid, title, publisher, totalbooks,
remainingbooks) values(?, ?, ?, ?, ?)";
$pubinsert = " insert into publisher values(?,?,?)";
//Prepare statement
$stmt = $conn->prepare($SELECT);
$stmt->bind param("s", $bookid);
$stmt->execute();
$stmt->bind result($bookid);
$stmt->store result();
$rnum = $stmt->num rows;
if ($rnum==0) {
$stmt->close();
$stmt = $conn->prepare($INSERT);
$stmt->bind param("sssii", $bookid, $title, $publisher, $totalbooks,
$remainingbooks );
$stmt->execute();
echo "New record inserted sucessfulsly";
} else {
echo " Already registered once with this bookid";
}
$stmt->close();
$conn->close();
}}
else { echo "All field are required"; die(); } ?>
```



Book Issue Page

```
<?php
usn = POST['usn'];
$bookid = $ POST['bookid'];
if (!empty($usn) || !empty($bookid)) {
$host = "localhost";
$dbUsername = "root";
$dbPassword = "";
$dbname = "library cmrit";
//create connection
$conn = new mysqli($host, $dbUsername, $dbPassword, $dbname);
if (mysqli connect error()) {
die('Connect Error('. mysqli connect error().')'. mysqli connect error());
} else {
$SELECT = "SELECT remainingbooks From book copies Where bookid = ?
Limit 1";
$INSERT = "INSERT Into booklending (usn, bookid ) values(?, ?)";
//Prepare statement
$stmt = $conn->prepare($SELECT);
$stmt->bind param("s", $bookid);
$stmt->execute();
$stmt->bind result($bc);
$stmt->store result();
$stmt->fetch();
if(bc==0)
             //bc -> Book Copies
echo $bc;
```

\$host = "localhost";

\$dbUsername = "root";



```
echo "BOOKS not found AVAILABLE";
$stmt->close();
die();
}
else {
$stmt = $conn->prepare($INSERT);
$stmt->bind param("ss", $usn, $bookid );
$stmt->execute();
$stmt->close();
$trigger = "update book copies set issuedbooks=issuedbooks+1 where bookid
= ?";
$stmt = $conn->prepare($trigger);
$stmt->bind param("s", $bookid);
$stmt->execute();
echo "New record inserted sucessfulsly";
$conn->close();
}}
else { echo "All field are required"; die(); } ?>
Section 4.1.5
Book Return Page
<?php
usn = POST['usn'];
$bookid = $ POST['bookid'];
if (!empty($usn) || !empty($bookid)) {
```



```
$dbPassword = "";
$dbname = "library cmrit";
//create connection
$conn = new mysqli($host, $dbUsername, $dbPassword, $dbname);
if (mysqli connect error()) {
die('Connect Error('. mysqli connect error().')'. mysqli connect error());
} else {
$INSERT = "Delete from booklending where usn=? and bookid=?";
$stmt = $conn->prepare($INSERT);
$stmt->bind param("ss", $usn, $bookid );
$stmt->execute();
$stmt->close();
$trigger = "update book copies set issuedbooks=issuedbooks-1 where bookid
= ?";
$stmt = $conn->prepare($trigger);
$stmt->bind param("s", $bookid);
$stmt->execute();
echo "New record inserted sucessfulsly";
$conn->close();
}}
else {echo "All field are required"; die(); } ?>
Section 4.1.6
Books Available Page
<!DOCTYPE html>
<html>
<head>
<title>Books Available</title>
```



```
<style>
table {
border-collapse: collapse;
width: 100%;
color: #588c7e;
font-family: monospace;
font-size: 25px;
text-align: left;
}
th { background-color: #588c7e; color: white; }
tr:nth-child(even) {background-color: #f2f2f2}
</style>
</head>
<body>
>
Book Id
Book Title
 Book Author 
 Total Books 
 Issued Books 
 Remainig Books 
 Book Publisher
 Phone no 
<?php
$conn = mysqli_connect("localhost", "root", "", "library_cmrit");
// Check connection
```



```
if ($conn->connect error) {
die("Connection failed: " . $conn->connect error);
$sql = "call find2()"; //stored procedure
$result = $conn->query($sql);
if (\frac{\text{sresult->num rows}}{0}) {
// output data of each row
while($row = $result->fetch assoc()) {
echo "" . $row["bookid"]. "" . $row["title"] . "" .
$row["author name"]. " " . $row["totalbooks"]. " " .
. $row["publisher"]. "". $row["phone"]. "";
echo "";
} else { echo "0 results"; }
$conn->close();
?>
</body> </html>
```



Trigger and Stored Procedure

Section 4.2.1

Stored Procedure

DELIMITER \$\$

CREATE PROCEDURE `find2` () BEGIN SELECT

b.bookid,b.title,b.publisher,ba.author_name,c.totalbooks,c.issuedbooks,c.remain ingbooks,p.phone from books b,book_copies c,book_author ba,publisher p where b.bookid=ba.bookid and b.bookid=c.bookid and b.publisher=p.publisher; END\$\$

DELIMITER;

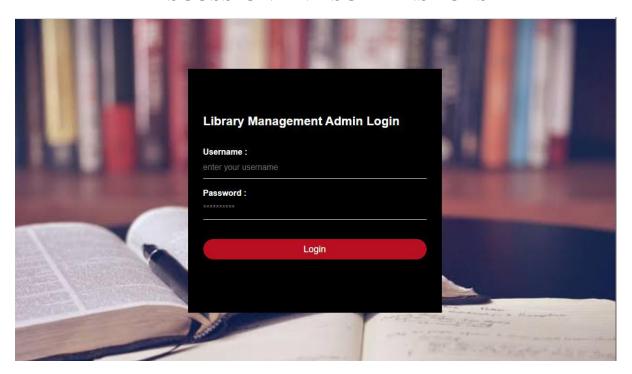
Section 4.2.2

Triggers

Triggers 'book_copies'
DELIMITER \$\$
CREATE TRIGGER `rem_book2` BEFORE UPDATE ON `book_copies` FOR EACH ROW set new.remainingbooks=new.totalbooks-new.issuedbooks
\$\$
DELIMITER;



DISCUSSION AND SCREENSHOTS



5.0 Login Page



5.1 Home Page



LIBRARY MANAGEMENT CMRIT

Home Book Info. Register Contact Log Out

Welcome to our

Library

DBMS Project | CMRIT Bengaluru, India

Our Project 'LIBRARY MANAGEMENT' sole purpose is to build a system is to manage library daily operation efficiently.

40000 e-Books 1700

Journals 🖺

Student Registeration | Registered Student Details

Student Registeration

Student Register

Student Details

Student Details

5.2 Student Register & Details Section



5.2.1 Student Register Page



Usn	Username	Gender	Phone	Email
1cr17cs032	anjali	f	121892832	anjali@gmail.com
1cr17cs043	Supriya	f	345923923	supriya@gmail.com
1cr17cs066	Ahsish	m	797655722	mbas17cs@cmrit.ac.in
1cr17cs070	Mamta	f	637922892	mamt17cs@cmrit.ac.in
1cr17cs080	Neeraj Kumar	m	854716603	neer17ec@cmrit.ac.in
1cr17cs090	pavan	m	778776655	pavan@gmail.com
1cr17cs099	john lennon	m	698665246	john@gmail.com
1cr17cs120	Nitin	m	329282829	nitk17cs@cmrit.ac.in
1cr17cs121	Sathuryan	m	384992398	sars17cs@cmrit.ac.in

5.2.2 Student Details Page

LIBRARY MANAGEMENT CMRIT Home Book Info. Register Contact Log Out

Books Available | Issue | Update



Books Available

This section contains the list of available bookscurrently in our CMRIT library depository.

View



Book Issue/Return

This section of Books Info. contains the list of issued/return books.

Issue

Return



Update

Updating on the books information- i.e addition of

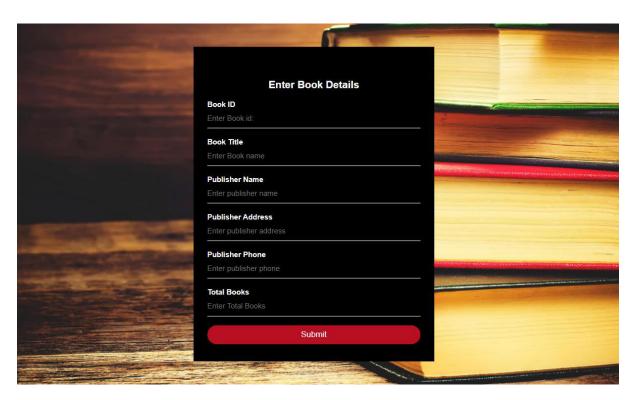
Enter

CONNECT WITH US.

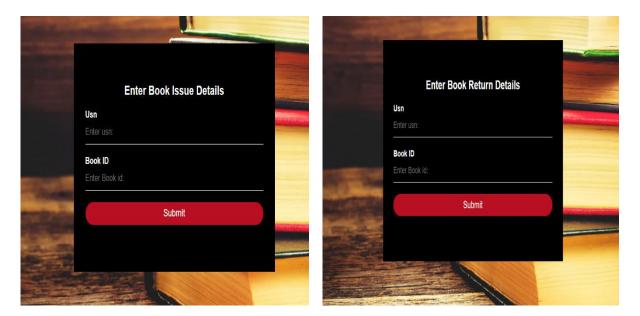


5.3 Books Info. Section





5.3.1 Enter Book Details Page



5.3.2 Book Issue Page & 5.3.3 Book Return Page



Book Id	Book Title	Book Author	Total Books	Issued Books	Remainig Books	Book Publisher	Colonial W-V
1	Wings Of Fire	chetan bagat	10	2	8	Dr. A P J Abdul Kalam	32283729
2	In Search Of Lost Time	george rr martin	7	1	6	Marcel Proust	68883239
3	The Oath of the Vayuputras	j k rowling	2	2	0	Amish Tripathi	33937895

5.4 Book Available Page

New record inserted sucessfulsly

5.5 Successfully Inserted Page



CONCLUSION AND FUTURE SCOPE

Section 6.1

Conclusion

This report has discussed the development of a stand-alone application that allows a Librarian to register students to register new students, view student details, update the books catalogue, issue books to students and view all issued books to students.

An Admin Login is provided to manage the Library Management for the desired purpose.

Section 6.2

Future Scope

This project has the ability to maintain a simple Library Management System through authorized personnel which can later be automated.

We can have a general Library Management for Transaction on Book-issue and use a simple desktop application or a web app to access everything making it convenient and simple for everyone.



REFERENCES

- 1. http://www.mysqltutorial.org
- 2. https://stackoverflow.com/
- 3. https://w3schools.com/