***Report on Experiential Learning***

**B.Tech Program First Year**

**Course: Experiential Learning**

**Course Code: DA1001**

**“ONLINE LIBRARY MANAGEMENT SYSTEM”**



by

**Name of the Students**

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Under the guidance

of

**Name of the mentor: Mr Jitendra Singh Yadav**

**Designation of mentor:**

Name of Dept and School, Manipal University Jaipur, Jaipur (Raj.).

**Department of computer science and engineering School of computing and information technology Faculty of Engineering**



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**Manipal University Jaipur, India**

February 2021

**Certificate**

This is to certify that the project titled **“Online Library Management** **System”** is a record of the bona fide work done by **1. Shagun Singh(209303065) 2. Sejal Kothari(209303070) 3. Samyak Jain**

**(209303064)** submitted for the partial fulfilment of therequirements for the completion of the Experiential Learning (DA1001) course in the Department of Computer Science and Engineering of Manipal University Jaipur, during the academic session July-November 2021.

*Signature of the mentor*

Name of the Mentor

Designation of the mentor

Department of \_\_\_\_\_\_\_\_\_

*Signature of the HoD*

Name of the HoD

Head of the Department

Department of \_\_\_\_\_\_\_\_\_



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**Abstract**

The Library Management System is an application for assisting a librarian in managing a book library in a university. The system would provide basic set of features to add/update members, add/update books, and manage check in specifications for the systems based on the client’s statement of need.

Library management system is a typical management Information system (MIS), its Development include the establishment and maintenance of back-end database and front-end application development aspects. For the former require the establishment of data consistency and integrity of the strong data security and good libraries. As for the latter requires the application fully functional, easy to use and so on.



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**Introduction**

Management software for monitoring and controlling the transactions in a library .The project “Library Management System” is developed in php, which mainly focuses on basic operations in a library like adding new books, and updating new information, searching books.

This project of “LIBRARY MANAGEMENT” of gives us the complete information about the library. We can enter the record of new books and retrieve the details of books available in the library. We can add new books and search for all the numerous books present in the database.

Throughout the project the focus has been on presenting information and comments in an easy and intelligible manner. The project is very useful for those who want to know about Library Management System.

This application is partitioned into 7 different files.

1. To create a cover page.
2. To create a login /signup page
3. To enter book details through an HTML web page – EnterBook.php
4. To insert book details into the database – InsertBooks.php
5. HTML web page to enter book name to be searched

– SearchBooks.php

1. PHP web page to display search results – DisplayBooks.php
2. Database connection details – DBConnection.php



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**Literature review**

A Library Management System (LMS) is a kind of system that help libraries which are still using the old way to manage their library. The old way like searching for a book using manual work is hassle, fast report generation is not possible, information about issue/return of the books are not properly maintained, no central database can be created as information is not available in database. But by using the LMS, user can overcome all the problems mentioned above. This system can manage all the happenings of the library. Book transactions including book searching, availability of the book, details etc. can be very easily handled by this system. This system is suitable for small to big libraries including medical and legal libraries, colleges, schools, universities, corporate houses and other academic resource centers. However, I would like to focus on LMS for colleges or universities.

LMS allows students to search material by title, name/author, subject and they can login or sign in in their account, etc. By LMS book issuing has become a easy and hassle free task. It also allow student to make a record of their issued and return date. Students can easily search the books they want by using the search bar, all the books information will be available. Overall this system can be very helpful and it can make things easier.



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**Methodology**

The tools and resources used for the project are

**Languages**

* HTML-Hyper Text Markup Language
* PHP-Hyper Text Preprocessor
* My SQL

**Applications and Softwares**

* Xampp for running apache and MySQL.
* PHPMyAdmin for database.

**IDE**

* Atom
* Notepad++
* Macromedia Dreamweaver

**Devices Used**

* Laptops

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**SOURCE CODE**

**Cover page:**

<html>

<head>

<title>Gyaan</title>

</head>

<body >

<style>

body{

background-image: url('bg1.jpeg');

background-repeat:no-repeat;

background-size: cover;

}

</style>

<table align="right">

<tr>

<td>

<a href="https://localhost/OLMS/login\_page.php"><form><input type="button" style="background-color:black;color:white;width:150px;

height:40px;" value="Login"></form></td>

<td>

<a href="https://localhost/OLMS/signup.php"><form><input type="button" style="background-color:black;color:white;width:150px;

height:40px;" value="Signup"></form></td>

</a>

</body>

</html>



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**Sign up page:**

<?php

if(isset($\_POST["sign-up"]))

{

$host="localhost";

$user="root";

$conn=mysqli\_connect($host,$user,'','olms');

if(!$conn)

{

die('Could not connect'.mysqli\_error());

}

else

{

echo"connected successfully";

}

$First\_Name=$\_POST['First\_Name'];

$Last\_Name=$\_POST['Last\_name'];

$DOB=$\_POST['DOB'];

$email=$\_POST['EMAIL'];

$password=$\_POST['Passcode'];

if($First\_Name!=" " and $Last\_Name!=" " and $DOB!=" "and $email!=" " and$password!=" " )

{

$sql= "INSERT INTO signup ('First\_Name','Last\_Name','DOB','EMAIL','password') VALUES ($First\_Name,$Last\_Name,$DOB,$email,$password)";

if(mysqli\_query($conn,$sql))

{

echo"Signup Successful";

}



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else {

echo"Error:".mysqli\_error($conn);

}

}

else {

echo "All fields necessary";

}

}

?>

<html>

<head>

<title>signup</title>

</head>

<body>

<style>

body{

background-image: url('bg2.jpeg');

background-repeat: no-repeat;

background-size:cover;

}

</style>

<center><img src="bg3.jpeg"></center>

<center>

<table>



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<tr><td>

<form action="signup.php" method="post">

First Name:</td><td><input type="text" name="First\_Name"></td></tr> <tr><td>Last Name:</td><td><input type="text" name="Last\_name"></td></tr> <tr><td>DOB:</td><td><input type="date" name="DOB"></td></tr> <tr><td>Email:</td><td><input type="email" name="EMAIL"></td></tr> <tr><td>Password:</td><td><input type="password" name="Passcode"></td></tr>

<tr><td><input type="submit" name="sign-up" value="DONE" <input type="button" style="background-color:black;color:white;width:150px;

height:40px;"></td></tr>

</form>

</table>

</center>

</body>

</html>

**Enterbooks.php:**

//EnterBooks.php

<!DOCTYPE HTML>

<html>

<body bgcolor=" #FFE873">

<center><h2>Online Library Management System</h2></center>

<!--Once the form is submitted, all the form data is forwarded to InsertBooks.php --> <form action="InsertBooks.php" method="post">

<table border="4" align="center" cellpadding="5" cellspacing="5"> <tr>

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<td> Enter ISBN :</td>

<td> <input type="text" name="isbn" size="50"> </td>

</tr>

<tr>

<td> Enter Title :</td>

<td> <input type="text" name="title" size="50"> </td>

</tr>

<tr>

<td> Enter Author :</td>

<td> <input type="text" name="author" size="50"> </td>

</tr>

<tr>

<td> Enter Edition :</td>

<td> <input type="text" name="edition" size="50"> </td>

</tr>

<tr>

<td> Enter Publication: </td>

<td> <input type="text" name="publication" size="50"> </td>

</tr>

<tr>

<td></td>

<td>

<input type="submit" value="submit">

<input type="reset" value="Reset">



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</td>

</tr>

</table>

</form>

</body>

</html>

**Insertbooks.php:**

//InsertBooks.php

<!DOCTYPE HTML>

<html>

<body bgcolor="#FFE873">

<center><h2>Simple Library Management System</h2></center> <br>

<?php

include("DBConnection.php");

$isbn=$\_POST["isbn"];

$title=$\_POST["title"];

$author=$\_POST["author"];

$edition=$\_POST["edition"];

$publication=$\_POST["publication"];



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$query = "insert into book\_info(isbn,title,author,edition,publication)

values('$isbn','$title','$author','$edition','$publication')"; //Insert query to add book details into the book\_info table

?>

<h3> Book information is inserted successfully </h3>

<a href="SearchBooks.php"> To search for the Book information click here </a>

</body>

</html>

**Searchbooks.php:**

//SearchBooks.php

<!DOCTYPE HTML>

<html>

<body bgcolor="#FFE873">

<center><h2>Simple Library Management System</h2></center>

<form action = "DisplayBooks.php" method="get">

<br>

<center>Enter the title of the book to be searched :

<input type="text" name="search" size="50">

<br></br>

<input type="submit" value="submit">

<input type="reset" value="Reset">



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</center>

<br>

</form>

</body>

</html>

**displaybooks.php:**

<!DOCTYPE html>

<html lang="en" dir="ltr">

<head>

<meta charset="utf-8">

<title>Books</title>

<link rel="stylesheet" href="css/styles.css">

<link rel="preconnect" href="https://fonts.gstatic.com">

<link href="https://fonts.googleapis.com/css2?family=Open+Sans&display=swap" rel="stylesheet">

</head>

<body>

<div class="Top">

<h1><em>BOOKS</em></h1>

</div>

<div class="Books">

<div class="row1">

<div class="c1">

<img src="images/hp.jpg" alt="" class="img"><br> <a href="#" id="BookLink">Harry Potter</a><br>

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</div>

<div class="c2">

<img src="images/sh.jpg" alt="" class="img"><br>

<a href="books/sherlockholmes.html" id="BookLink">Sherlock Holmes</a><br> </div>

<div class="c3">

<img src="images/oa.jpg" alt="" class="img"><br>

<a href="#" id="BookLink">One Arranged Murder</a><br> </div>

<div class="c4">

<img src="images/tgr.jpg" alt="" class="img"><br>

<a href="#" id="BookLink">Think & Grow Rich! </a><br> </div>

</div>

<div class="row2">

<div class="c5">

<img src="images/twi.jpg" alt="" class="img"><br> <a href="#" id="BookLink">Twilight </a><br> </div>

<div class="c6">

<img src="images/fault.jpg" alt="" class="img"><br> <a href="#" id="BookLink">Fault in our stars</a><br> </div>

<div class="c7">



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<img src="images/pt.jpg" alt="" class="img"><br> <a href="#" id="BookLink">Paper towns</a><br> </div>

<div class="c8">

<img src="images/pnp.jpg" alt="" class="img"><br>

<a href="#" id="BookLink">Pride and Prejudice</a><br> </div>

</div>

</div>

</body>

</html>

**DBConnection.php:**

//DBConnection.php

<!DOCTYPE html>

<html>

<body bgcolor="#FFE873">

<?php

//Establishing connection with the database

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "books";



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$conn = mysqli\_connect($servername,$username,$password,$dbname);

if(conn)

{

echo "connection OK";

}

else

{

echo "connection Failed";

}

?>

</body>

</html>



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**Results and Discussions**

**Cover page:**



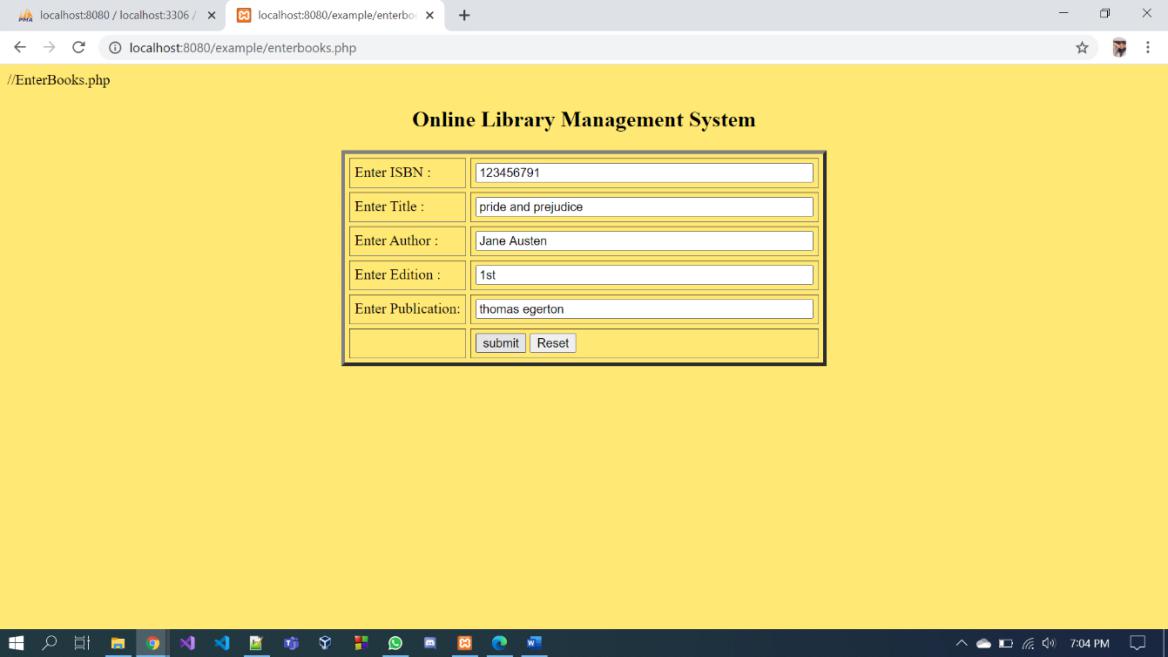
**Signup page:**



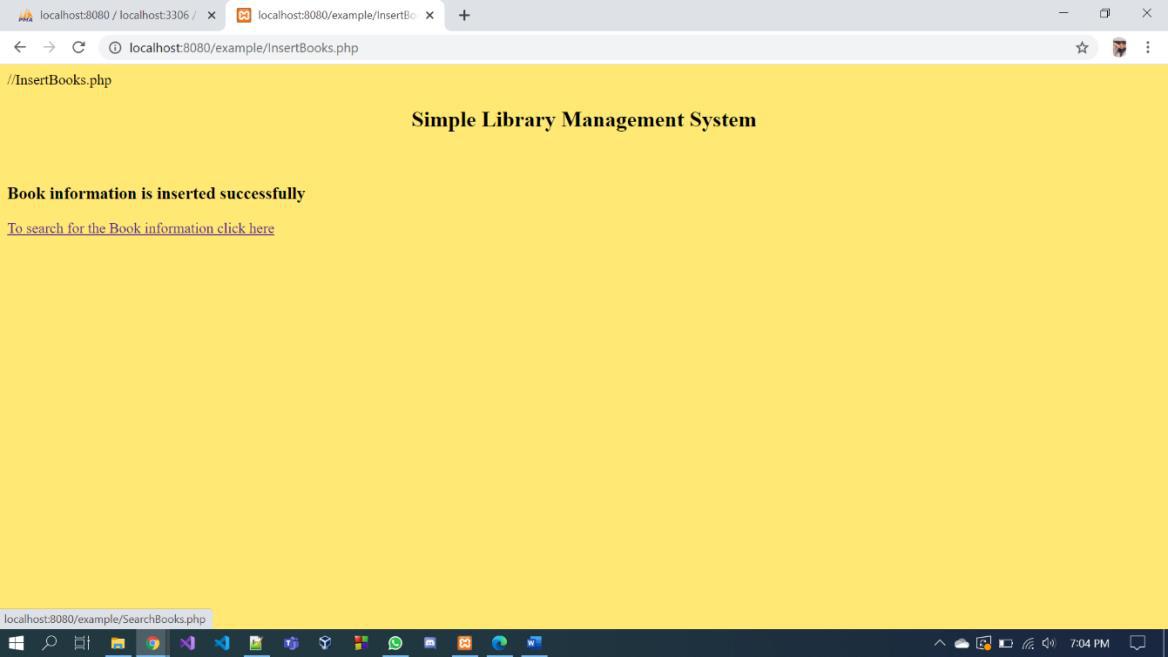
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**Enterbooks page:**



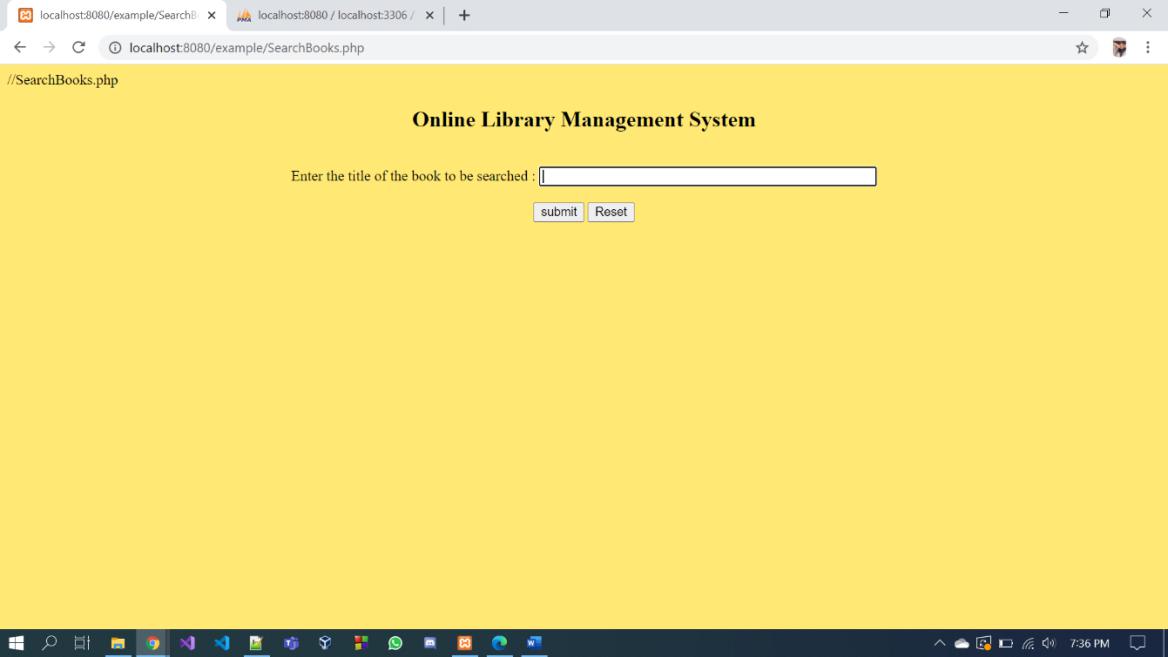
**Insertbooks page:**



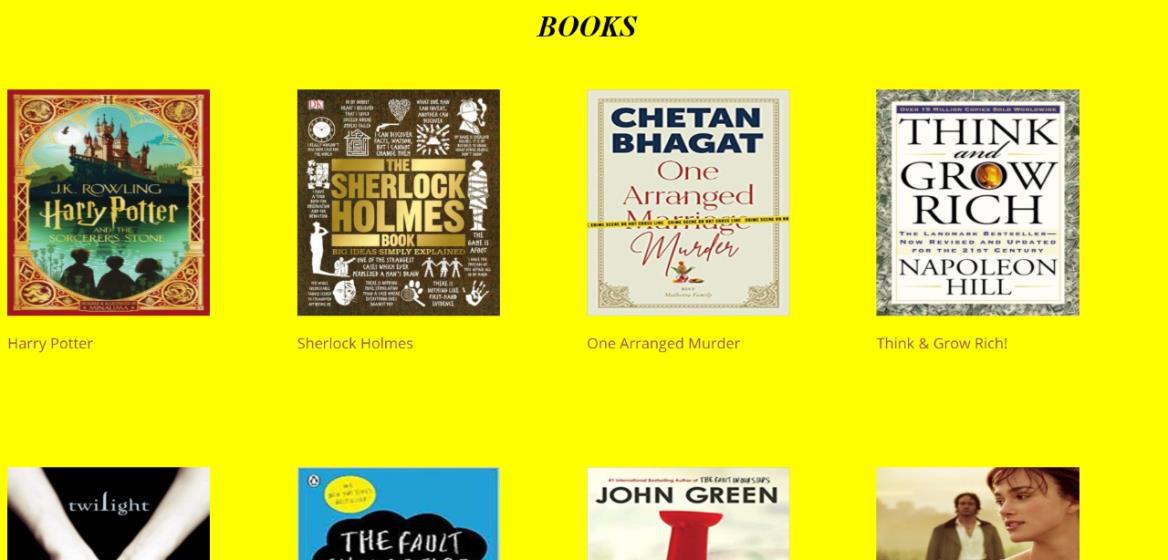
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**Searchbooks page:**

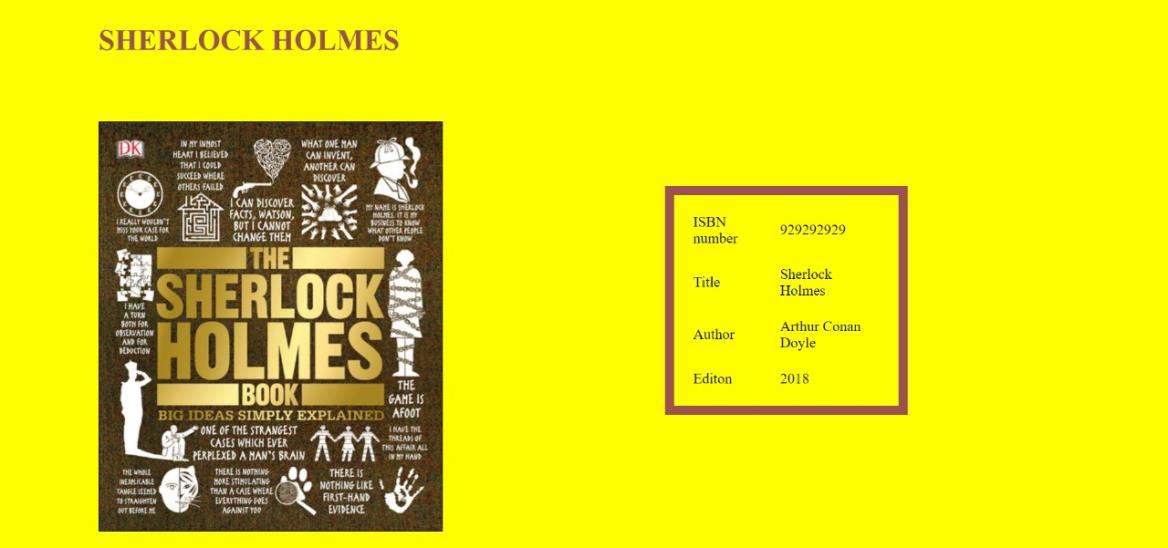


**Displaybooks page:**

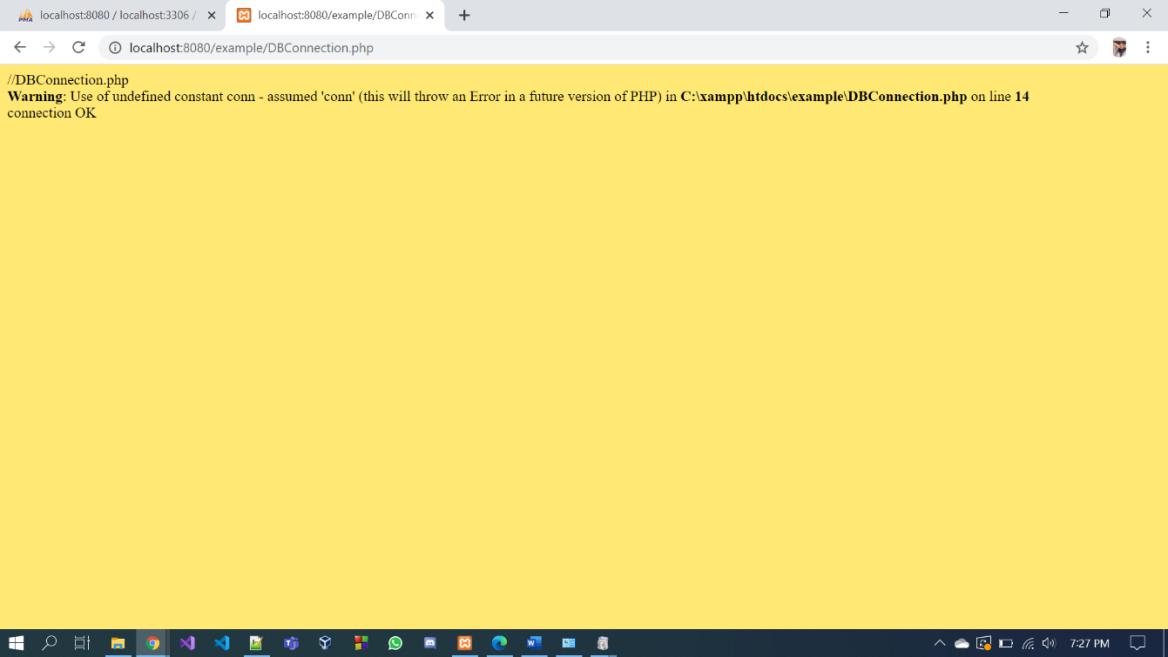


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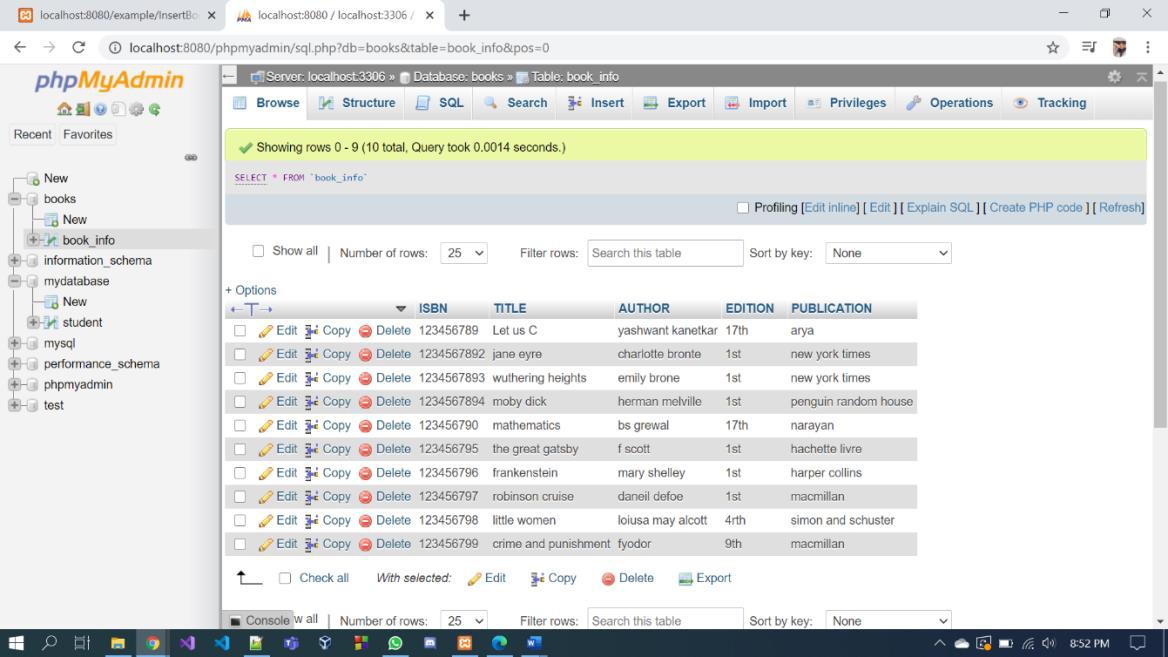
**DBConnection :**



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**Phpmyadmin database:**



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**Conclusions**

The main goal of this thesis was to explore the process of building a PHP and MySQL Library Management System. The purpose of the study was to design a user view interface for the Library Management System.

The Library Management System was built on the basis of PHP development; this study reduced the development cost. The further operation and maintenance cost could be gained from advertising fees. As the project grows, more and more libraries will consider purchasing this system. The financial benefit from the system will be much greater than the operation and maintenance costs. Besides, the system used a fully graphical interface, which fully considered the efficiency of managing system.

This thesis was limited since Library Management System will have a manager view interface. The work done in this study is a user view interface of the whole system.

In the latter part of the system development process, the programmer would focus on the combination of the library and website, integrating the News system and administration module. Meanwhile, the maintenance of the system is also very important as well as improving the efficiency of procedures by optimizing the database and simplifying the structure of PHP script.



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**Future prospects**

For future enhancement, there are few suggestions to improve the system abilities. Firstly, the library system should implement smart card technology which will log in the member by scanning the smart card. The smart card can act as a unique identifier of a member. The smart card technology is more advanced and is able to store all the information inside the chips. By implements this, the book transaction process will be enhanced and save time.

Next, the wide screen monitor is getting more popular day by day. Library Management System should able to support the wide screen resolution such as 1152 x 648 or 1280 x 720 so that user can view the system in perfect view.

More information can be inserted into book table such as product version, type of product (magazine, encyclopedia or newspaper) to enhance the system to be more perfect. In addition, the system should be enhanced so that one book can have more than one author. Currently the system only supports one author per book. Some book is having more than one author and user may miss to search the book. Currently, the reservation made cannot be detected without restart the system. The system

should be enhance so that the data can be updated in short time or pressing a button to avoid any error.

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**References**

References used in the study should be included in standard format,

1. Chinchao Li, Sheng Ma Design of Library Management System, volume 5,2018
2. Praveen khote,raman kolekar,dnyanesh metkar,Piyush mankare, huanggang normal university, hubei,china,advance library management system,volume 2 issue 2.

**Acknowledgements**

We Would like to thank our mentor Mr Jitendra Singh Yadav for his precious guidance throughout this project and for providing us with appropriate knowledge and resources needed for the successful completion of this project.

We would also like to thank each other for being cooperative and working hard for the completion of the project and to make it with utmost dedication



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