Project report

INDEX

INTRODUCTION

While seeking for a book in the university's library, students must check what category the book belongs to and check the books within this category one by one. Students might keep the book for a long period; sometimes, remembering to renew the book before a specific date is not very easy; this loan period might exceed the time limit so that the students must pay for a fine and the fine could even be worth as much as to purchasing a second-hand book. Some university libraries have been trying to deal with those problems, Abo Akademi library, for instance, allows students to search the book from the website and shows the bookshelf location but not the specific row and column and it will remind the student via E-mail, but it doesn't have its own E-mail system. This thesis was produced by initiating some theoretical ideas from a project in the same field called Koha. Koha provided the method to reduce the cost of maintenance.

The goal of this thesis was to design a website with PHP and MySQL that support the additional functions listed below in addition to the basic functions which are to: -

Display specific location of books in search result

- Support second hand book shop
- Integrate E-mail service and Subscriptions
- Provide Top 10 ranking

This solution was chosen because PHP could be embedded into HTML and its open source itself so that the developer would not need to recode the original source code with any extra funds. Even though the installation phase is discussed, the focus is more on empirical work. Bank negotiation is a part of the shopping cart; however, it is beyond the scope of this thesis. The feature and installation of development tools are introduced. Then the construction of this project is presented and ultimately each component of website is introduce

PROBLEM DEFINITION

Manual process of keeping student records, book records, account detai1s . Managing employee is very difficult. There are various problems also faced by the student in library such as finding any particular book, information whether book is available or not, for what time this book will be available, searching of books using ISBN number etc. To eliminate this manual system, library management system has been developed. It will handle all the current issues faced by the students and by its admin personnel.

IMPLEMENTATION

LOGIN PAGE:

```php
<?php
include("setting.php");
session_start();
if(isset($_SESSION['aid']))
{
        header("location:home.php");
}
$aid=mysqLreaLescape_string($_POST['aid']);
$pass=mysq LreaLescape_string($_POST['pass']);

if($aid==NULL || $_POST['pass']==NULL)
{
        //
}
else
{
        $p=md5($pass);
        $sql=mysqLquery("SELECT * FROM admin WHERE aid='$aid' AND password='$p'");
        if(mysqLnum_rows($sql)==1)
        {
                $_SESSION[' aid']=$_POST['aid'];
                header(" location:adminhome.php");
        }
        else
        {
                $msg=" Incorrect Details";
        }
}
?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional/JEN"
"http://www.w3.org/TR/xhtmll/DTD/xhtmll -transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" >
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Library Management System</title>
<link href="stylesheet.css" rel="stylesheet" type="text/css" />
</head>
```

```html
<body>

<div id="banner">
<span class="head">Library Management System</span><br />
<marquee class="clg" direction="right" behavior="alternate" scrollamount="l">TECH
VEGAN</marquee>
</div>
<br />

<div align="center">
<div id="wrapper">
<br />
<br />

<span class="SubHead">Admin Sign In</span>
<br />
<br />
<form method="post" action="">
<table border="O" cellpadding="4" cellspacing="4" class="table">
<tr><td colspan="2" align="center" class="msg"><?php echo $msg;?></td></tr>
<tr><td class="labels">Admin ID : </td><td><input type="text" name="aid" class="fields"
size="25" placeholder="Enter Admin ID" required="required" /></td></tr>
<tr><td class="labels">Password : </td><td><input type="password" name="pass"
class="fields" size="25"  placeholder="Enter Password"  required="required" /></td></tr>
<tr><td colspan="2"  align="center"><input type="submit"  value="Sign In" class="fields"
/></td></tr>
</table>
</form>
<br />
<br />
<a href="index.php" class="link">Main Page</a>
<br />
<br />

</div>
</div>
</body>
</html>
```

ADD BOOKS:

```php
<?php

include("setting.php");
session_start();
if(!isset($_SESSION['aid']))
{
        header(" location:index.php");
}
$aid=$_SESSION['aid'];
$a=mysqLquery("SELECT * FROM admin WHERE aid='$aid'");
$b=mysqLfetch_array($a);
$name=$b['name'];
$bn=$_POST['name'];
$au=$_POST[' auth'];
if($bn!=NULL && $au!=NULL)
{
        $sql=mysqLquery("INSERT INTO books(name,author) VALUES('$bn', '$au')");
        if($sql)
        {
                $msg="Successfully Added";
        }
        else
        {
                $msg="Book Already Exists";
        }
}
?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional/JEN"
"http://www.w3.org/TR/xhtmll/DTD/xhtmll -transitiona1.dtd">
<html xmlns="http://www.w3.org/l999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Library Management System</title>
<link href="stylesheet.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="banner">
<span class="head">Library Management System</span><br />
<marquee class="clg" direction="right"
```

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```html
 behavior="alternate" scrollamount="l">TECH VEGAN</marquee>
```

```
</div>
<br />

<div align="center">
<div id="wrapper">
<br />
<br />

<span class="SubHead">Add Books in Library</span>
<br />
<br />
<form method="post" action="">
<table border="0" class="table" cellpadding=" 10" cellspacing=" 10">
<tr><td class="msg" align="center" colspan="2"><?php echo $msg;?></td></tr>
<tr><td class="labels">Book: </td><td><input type="text" name="name" placeholder="Enter
Book Name" size="25" class="fields" required="required" /></td></tr>
<tr><td class="labels">Author: </td><td><input type="text" name="auth" placeholder="Enter
Author Name" size="25" class="fields" required="required" /></td></tr>
<tr><td colspan="2" align="center"><input type="submit" value="ADD BOOK" class="fields"
/></td></tr>
</table>
</form>
<br />
<br />
<a href="adminhome.php" class="link">Go Back</a>
<br />
<br />

</div>
</div>
</body>
</html>
```

REEQUEST:

```php
<?php
include("setting.php");
session_start();
if(!isset($_SESSION['aid']))

{
        header("location:index.php");
}
```

```php
$aid=$_SESSION['aid');
$a=mysqLquery("SELECT * FROM admin WHERE aid='$aid"');
$b=mysq Lfetch_array($a);
$name=$b['name');
$bn=$_POST['name');
$au=$_POST[' auth'];
if($bn!=NULL && $au!=NULL)
{
        $sql=mysqLquery("INSERT INTO books(name,author) VALUES('$bn', '$au')");
        if($sql)
        {
                $msg="Successfully Added";
        }
        else
        {
                $msg="Book Already Exists";
        }
}
?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional/JEN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitiona1.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Library Management System</title>
<link href="stylesheet.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="banner">
<span class="head">Library Management System</span><br />
<marquee class="clg" direction=" right" behavior="alternate" scrollamount="l ">TECH
VEGAN</marquee>
</div>
<br/>

<div align="center">
<div id="wrapper">
<br/>

<br/>

<span class="SubHead">Books Request From Students</span>
<br />
```

```php
<br />

<table border="0" class="table" cellpadding=" 10" cellspacing=" 10">
<tr class="labels" style="text- decoration:underline ;"><th>Book
Name</th><th> Author</th><th>Requested by<br>(Student ID) </th></tr>
<?php
$x=mysqLquery("SELECT * FROM request");
while($y=mysq Lf etch_array($x))
{
        ?>
<tr class="labels" style="font-size:l 4px;"><td><?php echo $y['name'];?></td><td><?php
echo $y['author'];?></td><td><?php echo $y['sid'];?></td></tr>
<?php
}
?>
</table><br />
<br />
<a href="adminhome.php" class="link">Go Back</a>
<br />
<br />

</div>
</div>
</body>
</html>
```

CHANGE PASSWORD:

```php
<?php
include("setting.php");
session_start();
if(!isset($_SESSION['aid']))
{
        header("location:index.php" );
}
$aid=$_SESSION['aid'];
$a=mysqLquery("SELECT * FROM admin WHERE aid='$aid'");
$b=mysqLfetch_array($a);
$name=$b['name'];
$pass=$b['password'];

$old=md5($_POST['old']);
$p1=md5($_POST['pl  ']);
$p2=md5($_POST['p2']);
if($_POST['old']==NULL ll $_POST['pl']==NULL ll $_POST['p2']==NULL)
{
```

```php
        //ASL Do Nothing
}
else
{
if($old!=$pass)
{
        $msg=" Incorrect Old Password";
}
elseif($p1!=$p2)
        {
                $msg="New Password Didn't Matched";
        }
        else
        {
                mysqLquery("UPDATE admin SET password='$p2' WHERE aid='$aid'");
                $msg="Successfully Changed your Password";
        }

}

?>
```

```html
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional/JEN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitiona1.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Library Management System</title>
<link href="stylesheet.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="banner">
<span class="head">Library Management System</span><br />
<marquee class="clg" direction="right" behavior="alternate" scrollamount="l">TECH
VEGAN</marquee>
</div>
<br />

<div align="center">
<div id="wrapper">
<br />
<br />

<span class="SubHead">Change Password</span>
```

```
<br />
<br />
<form method="post" action="">
<table cellpadding="3" cellspacing="3" class="table" align="center">
<tr><td colspan="2" class="msg" align="center"><?php echo $msg;?></td></tr>
<tr><td class="labels">Old Password :</td><td><input type="password" name="old"
size="25" class="fields" placeholder="Enter Old Password" required="required" /></td></tr>
<tr><td class="labels">New Password  :</td><td><input type="password"  name="pl"
size="25" class="fields" placeholder="Enter New Password" required="required"  /></td></tr>
<tr><td class="labels">Re-Type Password :</td><td><input type="password" name="p2"
size="25" class="fields" placeholder="Re-Type New Password" required="required"
/></td></tr>
<tr><td colspan="2" align="center"><input type="submit" value="Change Password"
class="fields" /></td></tr>
</table>
</form>
<br />
<br />
<a href="adminhome.php" class="link">Go Back</a>
<br />
<br />

</div>
</div>
</body>
</html>
```

ISSUE BOOK:

```
<?php
include("setting.php");
session_start();
if(!isset($_SESSION['sid']))
{

        header("location:index.php");
}
$sid=$_SESSI ON['sid'];
$a=mysqLquery("SELECT * FROM students WHERE sid='$sid'");
$b=mysqLfetch_array($a);
$name=$b['name'];
$date=date(' d/m/Y');
$bn=$_POST['name'];
```

```php
if($bn!=NULL)
{
        $p=mysqLquery("SELECT * FROM books WHERE id='$bn'");
        $q=mysq Lfetch_array($p);
        $bk=$q['name');
        $ba=$q['author'];
        $sq1=mysq Lquery(" INSERT INTO issue(sid,name,author,date)
VALUES('$sid', '$bk','$ba','$date')");
        if($sql)
        {
                $msg="Successfully Issued";
        }
        else
        {
                $msg="Error Please Try Later";
        }
}
?>
```

```html
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional/JEN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Library Management System</title>
<link href="stylesheet.css" rel="stylesheet" type="text/css" />
</head>

<body>
<div id="banner">
<span class="head">Library Management System</span><br />
<marquee class="clg" direction=" right" behavior="alternate" scrollamount= "1">TECH
VEGAN</marquee>
</div>
<br />


<div align="center">
<div id="wrapper">
<br />
<br />


<span class="SubHead">Issue Book</span>
<br />
<br />
```

```php
<form method="post" action="">
<table border="0" class="table" cellpadding=" 10" cellspacing=" 10">
<tr><td colspan="2" align="center" class="msg"><?php echo $msg;?></td></tr>
<tr><td class="labels">Book: </td><td><select name="name" class="fields" required>
<option value="" disabled="disabled" selected="selected"> - - Select Book - - </option>
<?php
$x=mysqLquery("SELECT *FROM books");
while($y=mysq Lf etch_array($x))
{
        ?>
<option value="<?php echo $y['id');?>"><?php echo $y['name')." ".$y['author'];?></option>
<?php
}
?>
</select></td></tr>
<tr><td colspan="2" align="center"><input type="submit" value="ISSUE" class="fields"
/></td></tr>
</table>
</form>
<br />
<br />
<a href="home.php" class="link">Go Back</a>
<br />
<br />

</div>
</div>
</body>
</html>
```

LIBRARY SQL:

```
-- phpMyAdmin SQL Dump

-- version 4.1.14
-- http://www.p hpmyadmin.net

-- Host: 127.0.0.1
-- Generation Time: May 21, 2020 at 08:43 AM
-- Server version: 5.6.17
-- PHP Version: 5.5.12

SET SQL_MODE = "NO_AUTO_ VALUE_ON_ZERO";
SET time_zone = "+00:00";
```

```sql
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT*/;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS*/;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8 */;


-- Database: 'library'




-- Table structure for table 'admin'


CREATE TABLE IF NOT EXISTS 'admin' (
 'aid' varchar(255) NOT NULL,
 'name' varchar(255) NOT NULL,
 'password' varchar(255) NOT NULL,
 PRIMARY KEY ('aid')
) ENGINE=InnoDB DEFAULT CHARSET=latinl;


-- Dumping data for table 'admin'


INSERT INTO 'admin' ('aid', 'name', 'password') VALUES
('admin', 'Admin', '21232f297a57a5a743894a0e4a80lfc3');




-- Table structure for table 'books'


CREATE TABLE IF NOT EXISTS 'books' (
 'id' int(255) NOT NULL AUTO_INCREMENT,
 'name' varchar(255) NOT NULL,
 'author' varchar(255) NOT NULL,
 PRIMARY KEY ('id'),
 UNIQUE KEY 'name' ('name')
) ENGINE=InnoDB DEFAULT CHARSET=latinl AUTO_INCREMENT=2;
```

-- Table structure for table 'issue'

```
CREATE TABLE IF NOT EXISTS 'issue' (
 'id' int(255) NOT NULL AUTO_INCREMENT,
 'sid' varchar(255) NOT NULL,
 'name' varchar(255) NOT NULL,
 'author' varchar(255) NOT NULL,
 'date' varchar(255) NOT NULL,
 PRIMARY KEY ('id')
) ENGINE=InnoDB DEFAULT CHARSET=latinl AUTO_INCREMENT=4;
```

-- Table structure for table 'request'

```
CREATE TABLE IF NOT EXISTS 'request' (
 'id' int(255) NOT NULL AUTO_INCREMENT,
 'name' varchar(255) NOT NULL,
 'author' varchar(255) NOT NULL,
 'sid' varchar(255) NOT NULL,
 PRIMARY KEY ('id'),
 UNIQUE KEY 'name' ('name')
) ENGINE=InnoDB DEFAULT CHARSET=latinl AUTO_INCREMENT=2;
```

-- Table structure for table 'students'

```
CREATE TABLE IF NOT EXISTS 'students' (
 'id' int(255) NOT NULL AUTO_INCREMENT,
 'sid' varchar(255) NOT NULL,
 'name' varchar(255) NOT NULL,
 'branch' varchar(255) NOT NULL,
 'sem' varchar(255) NOT NULL,
 'password' varchar(255) NOT NULL,
 'email' varchar(255) NOT NULL,
```

```
  PRIMARY KEY ('id'),
  UNIQUE KEY 'email' ('email'),
  UNIQUE KEY 'sid' ('sid')
) ENGINE=InnoDB DEFAULT CHARSET=latinl AUTO_INCREMENT=2;

/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
```

LOGOUT:

```php
<?php
session_start();
unset($_SESSI ON['sid']);
session_destroy();
header("location:index.php");
?>
```

Barcode Scanner

```html
<!DOCTYPE html>
<html>
<head>
 <title>Dynamsoft PHP Barcode Reader</title>
 <script src="jquery-1.11.3.min.js"></script>
 <script src="tiff.min.js"></script>
</head>
<body>
<H1>Dynamsoft PHP Barcode Reader</H1>
<form action="dbr.php" method="post" enctype="multipart/form-data">
   Select barcode image:
   <input type="file" name="readBarcode" id="readBarcode" accept="image/*"><br>
   <input type="submit" value="Read Barcode" name="submit">
</form>
<div id="tiff"></div>
<div id='image'></div>
<script>
    function reset() {
     $("#image").empty();
     $("#tiff").empty();
    }
    var input = document.querySelector('input[type=file]');
```

```
    input.onchange = function() {
      reset();
      var file = input.files[0];
      var fileReader = new FileReader();
      // get file extension
      var extension = file.name.split('.').pop().toLowerCase();
      var isTiff = false;
      if (extension == "tif" || extension == "tiff") {
       isTiff = true;
      }
      fileReader.onload = function(e) {
       if (isTiff) {
         console.debug("Parsing TIFF image...");
         //initialize with 100MB for large files
         Tiff.initialize({
          TOTAL_MEMORY: 100000000
         });
         var tiff = new Tiff({
          buffer: e.target.result
         });
         var tiffCanvas = tiff.toCanvas();
         $(tiffCanvas).css({
           "max-width": "800px",
           "width": "100%",
           "height": "auto",
           "display": "block",
           "padding-top": "10px"
         }).addClass("TiffPreview");
         $("#tiff").append(tiffCanvas);
        }
        else {
         var dataURL = e.target.result, img = new Image();
         img.src = dataURL;
         $("#image").append(img);
        }
       }
      if (isTiff) {
         fileReader.readAsArrayBuffer(file);
       }
       else
         fileReader.readAsDataURL(file);
     }
</script>
</body>
</html>
```
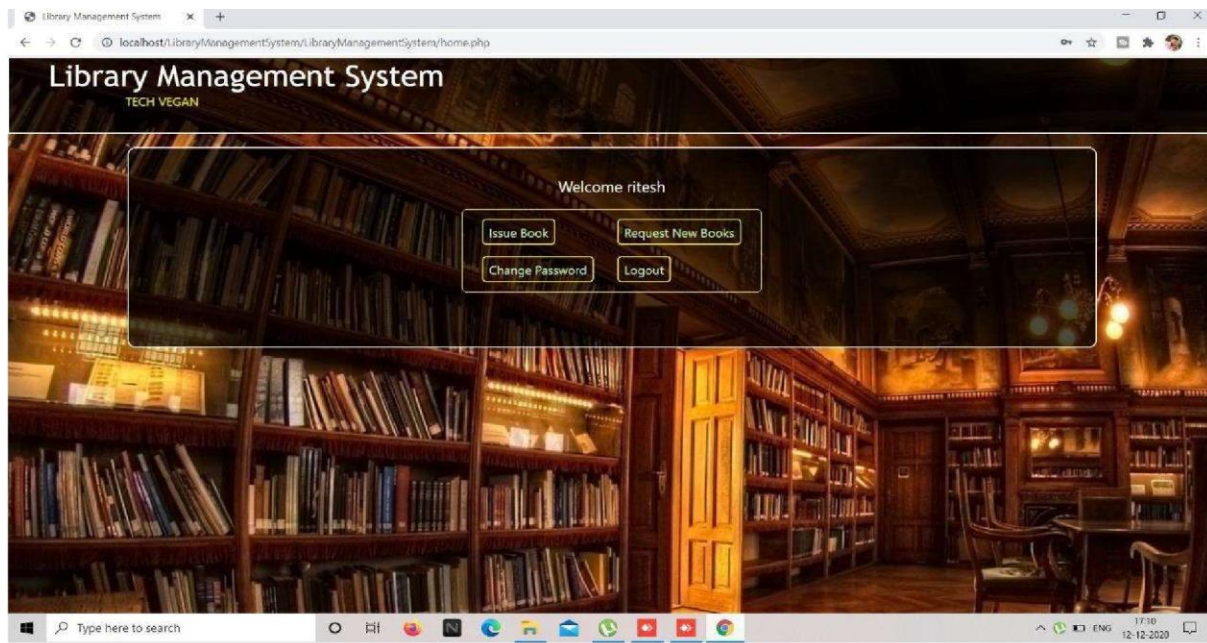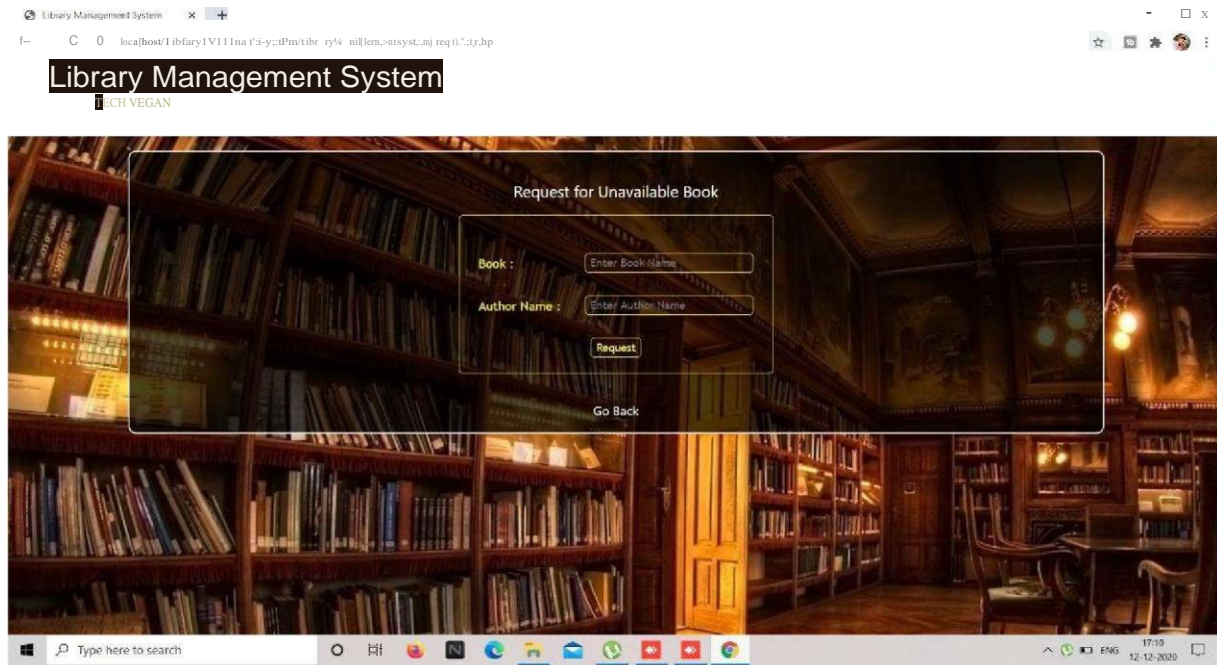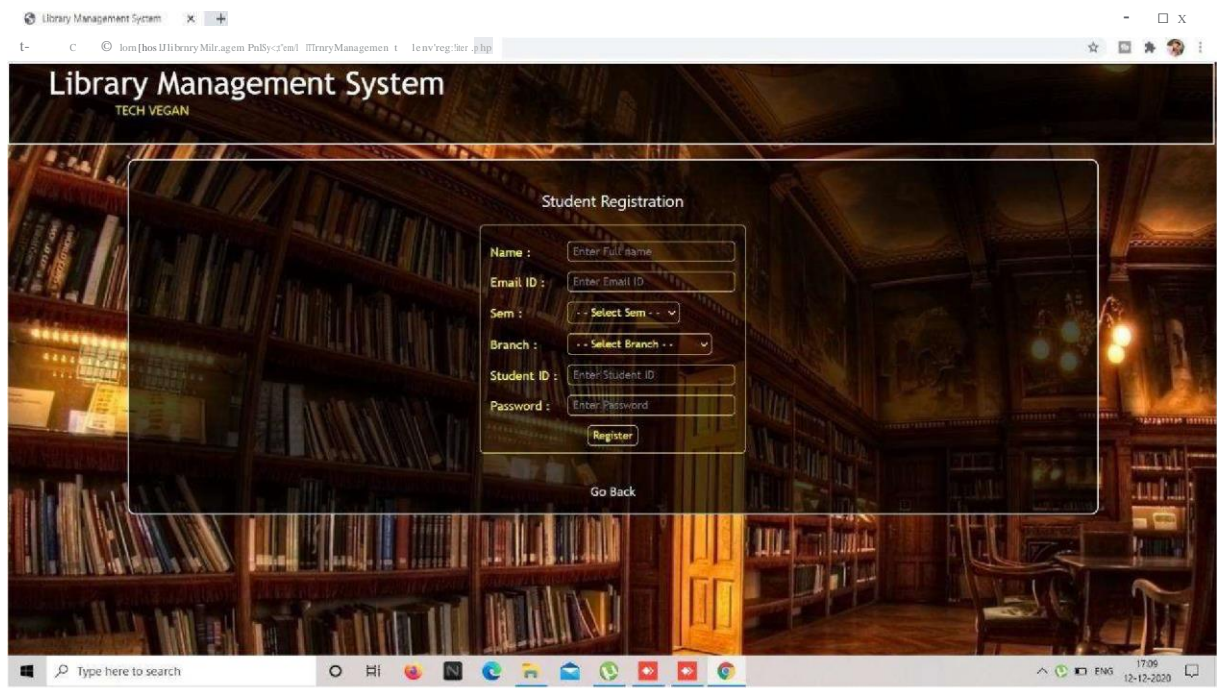
RESULT
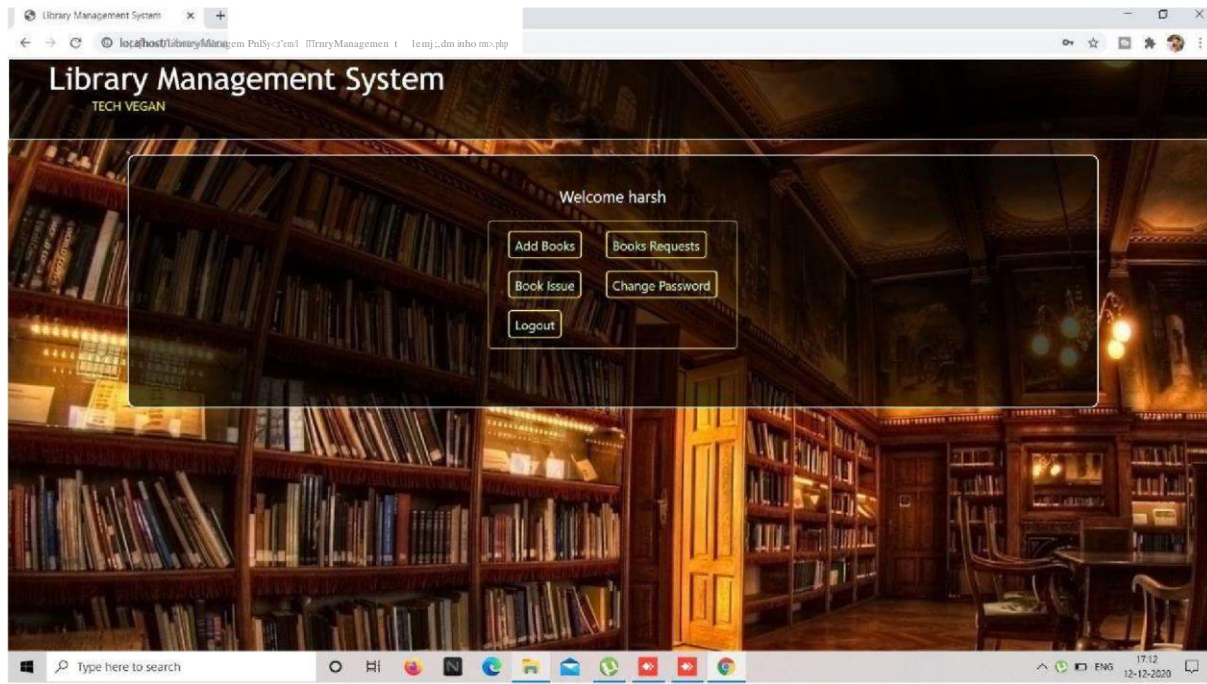

HOMEPAGE:
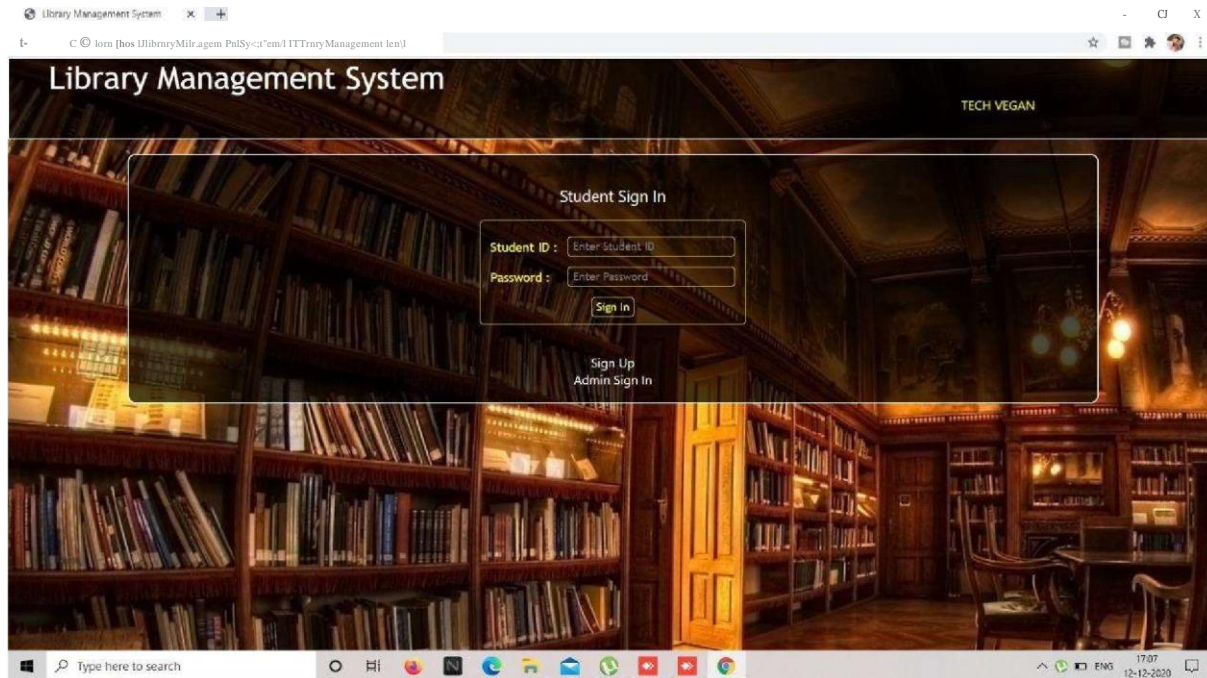
SELECT BUTTON :
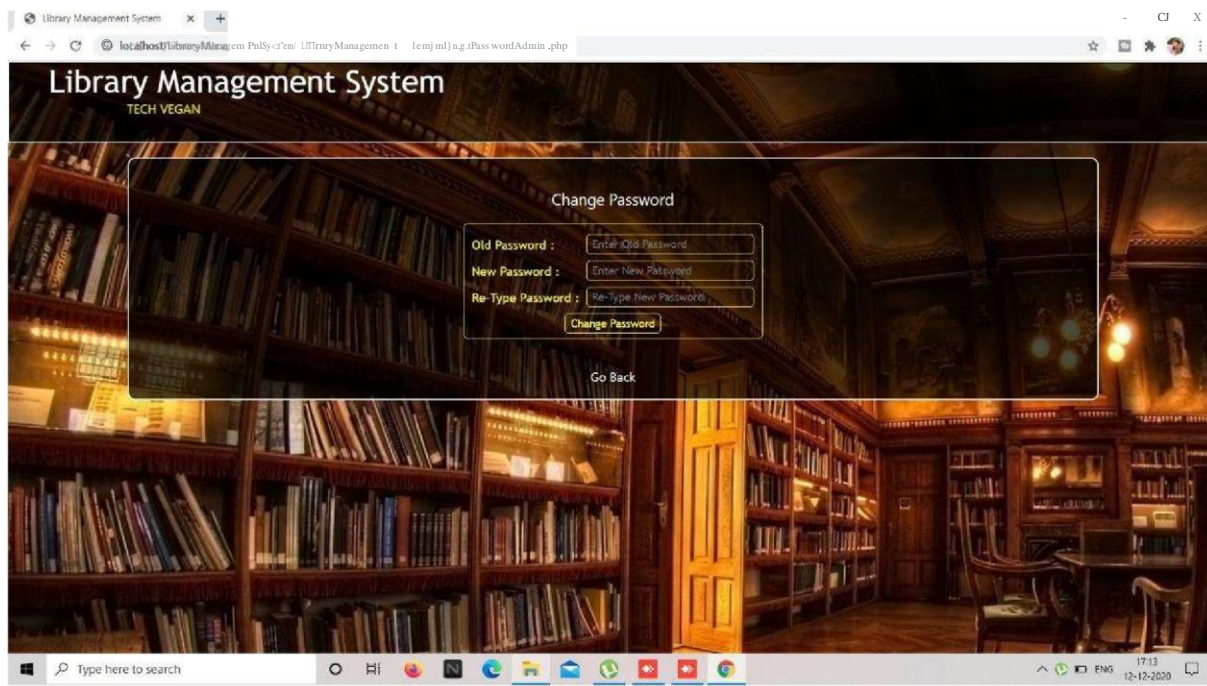
BOOK DETAILS:

FOR REGISTER:

MENU:

PASSWORD CHANGE:

CONCLUSION & FUTURE REFERENCE

This website provides a computerized version of library management system which will benefit the students as well as the staff of the library.

It makes entire process online where student can search books, staff can generate reports and do book transactions. It also has a facility for student login where student can login and can see status of books issued as well request for book or give some suggestions. It has a facility of teacher's login where teachers can add lectures notes and also give necessary suggestion to library and also add info about workshops or events happening in our college or nearby college in the online notice board.

There is a future scope of this facility that many more features such as online lectures video tutorials can be added by teachers as well as online assignments submission facility , a feature Of group chat where students can discuss various issues of engineering can be added to this project thus making it more interactive more user friendly and project which fulfills each users need in the best way possible.

REFERENCE

www.youtube.com

www.google.com

www.w3schools.com

www.godaddy.com

www.github.com

www.wampserver.com