



Web Technology research

Library System

2019-2020

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Introduction chapter

Description:

The university Library web application is a system used to manage this library. it makes the admin of the library and the student able to do the next:

1. The admin

- Can do a sign up as new admin.
- Can do a login as an exists admin.
- Can update his username, his password and his email.
- Can add a new book with its description (ISBN, book name, publication year, author).
- Can also update the book details.
- Can Brows all exists books.
- Can extend the time of borrowing for the student.
- Can send emails to late borrowers

2. The student

- Can do a sign up as new student.
- Can do a login as an exists student.
- Can update his username, his password and his email.
- Can see all available books in the library.
- Can borrow, return the books.
- Can open the messages books to check if he has new messages from the admin.

Technologies used:

We used a lot of technologies

1. HTML (Hypertext Markup Language)

We used it to build the main menu (login.html , signUp.html, University_Library.html) and to organize our program.
It helped us in using the input, output and move the data between the pages by forms.

2. CSS (Cascading Style Sheets)

It's a style Sheets language we used it to organize the color and the background for each page.
It makes the style of the project more beautiful.

3. JavaScript

It's a programming language used to create interactive and friendly web pages used in the client side.
We used it to make a validation in case the user entered wrong inputs or let the inputs empty in the main page.

4. AJAX (Asynchronous JavaScript and XML)

Its a set of web development techniques using many web technologies on the client side to create asynchronous web applications.
We used it to view the signup form and login form in the main page without reloading it.

5. PHP (Hypertext Preprocessor) or (Personal Home Page)

It's a scripting language to make the web pages dynamic.

We create all web server pages by it because it's makes the web pages more interactive with the database.

It's includes a lot of built-in functions that helps us while coding.

It works on all browsers.

Its syntax is easy to learn.

- Sessions: help us to keep the username of the admin or student that visit this website to welcome him on entering the website by his name (to be stored in server side).
- Cookies: help us to set values in the client side to be sent with every http request in the website, we use it when the admin/student signing up or when the student borrow a book (to be stored in client side).

The tools we used:

1. Visual Studio Code

We used it to write all codes for the web pages.

2. PhpMyAdmin

We used it to make a database and do operations on it.

3. Google chrome

We used it as a browser to view and test our pages.

We used it as search engine to collect information about the languages.

4. XAMP

We used it to make a local server and connect the pages with each other and the database.

Team members Roles:

name	Role
محمد خيري سليم	<ul style="list-style-type: none">- University_laibrary.html- Signup.html- Login.html- Update_admin_det.php- Update_student_det.php- Admin.php- Student.php- Style.css
فيلوباتير وجدي شوقي	<ul style="list-style-type: none">- browse_book_admin.php- browse_book_student.php- Update_book_det.php- Admin.php- Student.php- Style.css
مينا مرقص ميخائيل	<ul style="list-style-type: none">- borrow_book.php- return_book.php- validation.php- validation2.php- Admin.php- Student.php- Style.css
يوسف باسم فؤاد	<ul style="list-style-type: none">- Add_book.php- Signup.php- Extend.php- Extend2.php- Admin.php- Student.php- Style.css
محمد محي الدين	<ul style="list-style-type: none">- Login.php

- | | |
|--|---|
| | <ul style="list-style-type: none">- Message.php- Send_message.php- View_message.php- Admin.php- Student.php- Style.css |
|--|---|

The whole project file in drive:

<https://drive.google.com/drive/folders/1XeKTwzMUYhWzkJkYtA0dpo1y7RfUtMQF>

Chapter 2:

1. University Library.html

```
<!DOCTYPE html>
<html>
<head>
    <title>University Library</title>
    <link rel="stylesheet" type="text/css" href="style.css">
    <script language="JavaScript">
        function newSignUp()
        {
            var xhttp = new XMLHttpRequest();
            xhttp.onreadystatechange = function() {
                if (this.readyState == 4 && this.status == 200) {
                    console.log(this.responseText);
                    document.getElementById("div2").innerHTML = this.responseText;
                }
            };
            xhttp.open("GET", "signUp.html", true);
            xhttp.send();
        }

        function login()
        {
            var xhttp = new XMLHttpRequest();
            xhttp.onreadystatechange = function() {
                if (this.readyState == 4 && this.status == 200) {
                    console.log(this.responseText);
                    document.getElementById("div3").innerHTML = this.responseText;
                }
            };
            xhttp.open("GET", "login.html", true);
            xhttp.send();
        }
    </script>
</head>
<body>
    <h1>welcome to the Library</h1>

    <div id="div1">
        <br> <br> <br>
```

```

        <input type="button" id="signUp" onclick="newSignUp()" value="Sign up"> <br>
><br>
        <div id ="div2"></div>
        <br> <br>
        <input type="button" id="login" onclick="login()" value="login">
        <br> <br>
        <div id ="div3"></div>
        <br> <br><br> <br><br> <br>

    </div>

</body>

</html>
```

2. login.html

```

<html>
    <div style="width:500px;height:400px;border: 1px solid green;background-color:LightGray;margin:auto;">
        <h2 style="text-align:center;
        font-size:30px;
        font-style: oblique;
        color: teal;
        background-color: thistle;">login</h2>

        <form action="login.php" method="POST" name="myForm" onsubmit="return validateForm()" method="post" style="margin:auto;text-align:center;">

            <p id="nameError" style="font-size:15px; color: red;"></p>
            <p style="font-size:25px;">
                <label> username</label>
                <input type="text" id="newUserName" name="newUserName" required style="width:300px;
                height:40px;
                border: 1px solid black;
                font-size:25px;">
            </p>

            <p id="passError" style="font-size:15px; color: red;"></p>
            <p style="font-size:25px;">
```

```
<label> password</label>
<input type="password" id="newUserPass" name="newUserPass" required style="width:300px;
height:40px;
border: 1px solid black;">
<p>

<p id="rolError" style="font-size:15px; color: red;"></p>
<p style="font-size:25px;">
role:<br>
<input type="radio" id="myAdmin" name="role" value="admin" >admin
<input type="radio" id="myStudent" name="role" value="student">student
<br><br>
</p>

<input type="submit" value="Submit" onclick="login.php" style="background-color:aliceblue;
width:300px;
height:40px;
border: 1px solid black;
font-size:25px;">

</form>
</div>

<script>
function validateForm() {
var n = document.forms["myForm"]["newUserName"].value;
var p = document.forms["myForm"]["newUserPass"].value;
var e = document.forms["myForm"]["newUserEmail"].value;
var r = document.forms["myForm"]["role"].value;
if (n == "") {
document.getElementById("nameError").innerHTML = "*you must to enter your
username*";
}
else if(p=="")
{
document.getElementById("passError").innerHTML = "*you must to enter your
password*";
}
else if((z!="admin")||(z!="student"))
{
```

```

        document.getElementById("nameError").innerHTML = "*you must to chose a role";
    }
    return false;
}

</script>

</html>

```

3. signUp.html

```

<html>
    <div style="width:500px;height:600px;border: 1px solid green;background-color:LightGray;margin:auto;">
        <h2 style="text-align:center; font-size:30px; font-style: oblique; color: teal; background-color: thistle;">sign up</h2>
        <form action="signup.php" method="POST" name="myForm" onsubmit="return validateForm()" method="post" style="margin:auto;text-align:center;">

            <p id="nameError" style="font-size:15px; color: red;"></p>
            <p style="font-size:25px;">
                <label> username</label>
                <input type="text" id="newUserName" name="newUserName" required style="width:300px; height:40px; border: 1px solid black; font-size:25px;">
            </p>

            <p id="emailError" style="font-size:15px; color: red;"></p>
            <p style="font-size:25px;">
                <label> The email </label>
                <input type="text" id="newUserEmail" name="newUserEmail" required style="width:300px; height:40px; border: 1px solid black; font-size:25px;">
            </p>

            <p id="passError" style="font-size:15px; color: red;"></p>

```

```
<p style="font-size:25px;">
    <label> password</label>
    <input type="password" id="newUserPass" name="newUserPass" required style="width:300px;
        height:40px;
        border: 1px solid black;">
</p>

<p id="roleError" style="font-size:15px; color: red;"></p>
<p style="font-size:25px;">
    role:
    <input type="radio" id="myAdmin" name="role" value="admin" />admin
    <input type="radio" id="myStudent" name="role" value="student" />student
    <br><br>
</p>

<input type="submit" value="Submit" name="submit" onclick="signup.php" style="background-color:aliceblue;
    width:300px;
    height:40px;
    border: 1px solid black;
    font-size:25px;">

</form>
</div>

<script>
    function validateForm() {
        var n = document.forms["myForm"]["newUserName"].value;
        var p = document.forms["myForm"]["newUserPass"].value;
        var e = document.forms["myForm"]["newUserEmail"].value;
        var r = document.forms["myForm"]["role"].value;
        if (n == "") {
            document.getElementById("nameError").innerHTML ="you must to enter your username";
        }
        else if(e=="")
        {
            document.getElementById("emailError").innerHTML ="you must to enter your email";
        }
        else if(p=="")
    }
</script>
```

```
{  
    document.getElementById("passError").innerHTML ="you must to enter your p  
assword";  
}  
else if((z!="admin")||(z!="student"))  
{  
    document.getElementById("nameError").innerHTML ="you must to chose a role  
";  
}  
return false;  
  
}  

```

4. add_book.php

```
<html>

<head>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>

<body>

    <?php
        session_start();

    ?>

    <br>
    <h1 id="upper">WELCOME <?php echo " ".$_SESSION["newUserName"];?> </h1>

<div id="add_div">
    <form action="Admin.php" method="POST" style="margin:auto;text-align:center;">

        <p style="font-size:25px;" id="add_p">
            <label> ISBN</label>
            <input type="text" id="isbn" name="isbn" required style="width:300px; height:40px; border: 1px solid black; font-size:25px;">
        </p>

        <p style="font-size:25px;" id="add_p">
            <label> Book Name</label>
            <input type="text" id="book_name" name="book_name" required style="width:300px; height:40px; border: 1px solid black; font-size:25px;">
        </p>

        <p style="font-size:25px;" id="add_p">
            <label> Author Name</label>
            <input type="text" id="author_name" name="author_name" required style="width:300px; height:40px;">
        </p>
```

```
        border: 1px solid black;
        font-size:25px;">
    </p>

    <p style="font-size:25px;" id="add_p">
        <label> Publication year </label>
        <input type="text" id="pub_year" name="pub_year" required style="width:300px;
height:40px;
border: 1px solid black;
font-size:25px;">
    </p><br><br>

        <input type="submit" value="Submit" style="background-color:aliceblue;
width:300px;
height:40px;
border: 1px solid black;
font-size:25px;">

    </form>

</div>

</body>

</html>
```

5. Admin.php

```
<html>

<head>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>

<body>

    <?php
        session_start();

    ?>

    <?php
        /* update admin details */

        if(isset($_POST["newUserName"]) && isset($_POST["newUserPass"]))
        {
            $old_username = $_COOKIE["mycookie"];
            $old_pass = $_COOKIE["mycookie2"];
            $username = $_POST["newUserName"];
            $pass = $_POST["newUserPass"];

            if(isset($_SESSION["newUserName"]) || !isset($_SESSION["newUserName"]))
            {
                $_SESSION["newUserName"] = $username;
            }
            if(isset($_SESSION["newUserPass"]) || !isset($_SESSION["newUserPass"]))
            {
                $_SESSION["newUserPass"] = $pass;
            }

            $conn = mysqli_connect('localhost','root','philo') or die ('No connection');
            mysqli_select_db($conn, 'library') or die (' test will not open');
            $query = "SELECT * FROM admin";
            $res = mysqli_query($conn, $query) or die("Invalid query");
            $num = mysqli_num_rows($res);
```

```

        for($i=1; $i<=$num; $i++)
    {
        $row = mysqli_fetch_row($res);
        if($row[0]==$old_username && $row[2]==$old_pass)
        {
            $query = "UPDATE admin SET username='$username' WHERE username='$old_username' ";
            $result = mysqli_query($conn, $query) or die("Invalid query");
;
            $query2 = "UPDATE admin SET pass='$pass' WHERE pass='$old_pass'";
            $result2 = mysqli_query($conn, $query2) or die("Invalid query");
        );
        }
    }

    mysqli_close($conn);

}
?>

<?php
/* add book */

if(isset($_POST["isbn"]) && isset($_POST["book_name"]) && isset($_POST["author_name"]) && isset($_POST["pub_year"]))
{
    $isbn = $_POST["isbn"];
    $book_name = $_POST["book_name"];
    $author_name = $_POST["author_name"];
    $pub_year = $_POST["pub_year"];

    setcookie("my_isbn_cookie",$isbn,time()+3600*24);
    setcookie("my_book_cookie",$book_name,time()+3600*24);
    setcookie("my_author_cookie",$author_name,time()+3600*24);
    setcookie("my_year_cookie",$pub_year,time()+3600*24);

    if(isset($_COOKIE["my_isbn_cookie"]) && isset($_COOKIE["my_book_cookie"])
    && isset($_COOKIE["my_author_cookie"]) && isset($_COOKIE["my_year_cookie"]))
    {
        session_start();
        if(!isset($_SESSION["isbn"]) || isset($_SESSION["isbn"]))
        {
            $_SESSION["isbn"] = $isbn;
        }
    }
}

```

```

        }
        if(!isset($_SESSION["book_name"]) || isset($_SESSION["book_name"]))
    )
    {
        $_SESSION["book_name"] = $book_name;
    }
    if(!isset($_SESSION["author_name"]) || isset($_SESSION["author_na
me"]))
    {
        $_SESSION["author_name"] = $author_name;
    }
    if(!isset($_SESSION["pub_year"]) || isset($_SESSION["pub_year"]))
    {
        $_SESSION["pub_year"] = $pub_year;
    }
}

$conn = mysqli_connect('localhost','root','philo') or die ('No connec
tion');
mysqli_select_db($conn, 'library') or die (' test will not open');
$query = "INSERT into book (ISBN,book_name,author_name,publishing_ye
ar) VALUES('$isbn','$book_name','$author_name','$pub_year')";
$result = mysqli_query($conn, $query) or die("Invalid query");

mysqli_close($conn);
}

?>

<?php
/* update book details */

if(isset($_POST["old_isbn"]) && isset($_POST["new_isbn"]) && isset($_POST
["new_book_name"]) && isset($_POST["new_author_name"]) && isset($_POST["new_pub_y
ear"]))
{
    $old_isbn = $_POST["old_isbn"];
    $old_book_name ;
    $old_author_name ;
    $old_pub_year ;

    $new_isbn = $_POST["new_isbn"];
    $new_book_name = $_POST["new_book_name"];
}

```

```

$new_author_name = $_POST["new_author_name"];
$new_pub_year = $_POST["new_pub_year"];

$conn = mysqli_connect('localhost','root','philo') or die ('No connection');
mysqli_select_db($conn, 'library') or die (' test will not open');
$query = "SELECT * FROM book";
$result = mysqli_query($conn, $query) or die("Invalid query outer");
$num = mysqli_num_rows($result);

for($i=1; $i<=$num; $i++)
{
    $row = mysqli_fetch_row($result);
    if($row[0]==$old_isbn)
    {
        $old_book_name = $row[1];
        $old_author_name = $row[2];
        $old_pub_year = $row[3];

        if($row[0]==$old_isbn && $row[1]==$old_book_name && $row[2]==
$num && $row[3]==$old_pub_year)
        {
            $query1 = "UPDATE book SET ISBN='$new_isbn' WHERE ISBN='$old_isbn' ";
            $result1 = mysqli_query($conn, $query1) or die("Invalid query 1");
            $query2 = "UPDATE book SET book_name='$new_book_name' WHERE book_name='$old_book_name' ";
            $result2 = mysqli_query($conn, $query2) or die("Invalid query 2");
            $query3 = "UPDATE book SET author_name='$new_author_name' WHERE author_name='$old_author_name' ";
            $result3 = mysqli_query($conn, $query3) or die("Invalid query 3");
            $query4 = "UPDATE book SET publication_year='$new_pub_yea
r' WHERE publication_year='$old_pub_year' ";
            $result4 = mysqli_query($conn, $query4) or die("Invalid query 4");
        }
    }
}

mysqli_close($conn);
}

```

```
?>

<br>
<h1 id="upper">WELCOME <?php echo " ". $_SESSION["newUserName"]; ?> </h1>
<div id="admin_div">
    <ol>
        <li><a href="update_admin_det.php" >update details</a></li>
        <li><a href="add_book.php" >add a book</a></li>
        <li><a href="update_book_det.php" >update book details</a></li>
        <li><a href="browse_book_admin.php" >Browsing books</a></li>
        <li><a href="send_message.php" >sending emails to late borrowers</a></li>
    <li>
        <li><a href="extend.php" >extending borrowing period</a></li>
        <li><a href="University_Library.html" >logout</a></li>
    </ol>
</div>

</body>

</html>
```

6. borrow book.php

```
<html>

<head>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>

<body>

    <?php
        session_start();

    ?>

    <br>
    <h1 id="upper">WELCOME <?php echo " ".$_SESSION["newUserName"]; ?> </h1>

<div id="update_book_div">

    <?php

        $conn = mysqli_connect('localhost','root','philo') or die ('No connection');
        mysqli_select_db($conn, 'library') or die (' test will not open');
        $query = "SELECT * FROM book";
        $result = mysqli_query($conn, $query) or die("Invalid query");
        $num = mysqli_num_rows($result);

        for($i=1; $i<=$num; $i++)
        {
            $row = mysqli_fetch_row($result);
            if(isset($row[0]) && isset($row[1]) && isset($row[2]) && isset($row[3]))
            {
                echo $i."<br>";
                echo "ISBN : ".$row[0]."<br>";
                echo "Book Name : ".$row[1]."<br>";
                echo "Author Name : ".$row[2]."<br>";
                echo "Publication Year : ".$row[3]."<br><br><br>";
            }
        }

        mysqli_close($conn);
    ?>
```

```
?>

<form action="Student.php" method="POST" style="margin:auto;text-align:center;">

    <p style="font-size:25px;" id="add_p">
        <label>ISBN</label>
        <input type="text" id="isbn" name="b_isbn" placeholder="Enter ISBN of book to borrow" required style="width:350px; height:40px; border: 1px solid black; font-size:25px;">
    </p>

    <input type="submit" value="Submit" style="background-color:aliceblue; width:300px; height:40px; border: 1px solid black; font-size:25px;">

</form>

</div>

</body>

</html>
```

7. browse book admin.php

```
<html>

<head>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>

<body>

    <?php
        session_start();

    ?>

    <br>
    <h1 id="upper">WELCOME <?php echo " ".$_SESSION["newUserName"]; ?> </h1>

    <div id="add_div">

        <?php

            $conn = mysqli_connect('localhost','root','philo') or die ('No connection');
            mysqli_select_db($conn, 'library') or die (' test will not open');
            $query = "SELECT * FROM book";
            $result = mysqli_query($conn, $query) or die("Invalid query");
            $num = mysqli_num_rows($result);

            for($i=1; $i<=$num; $i++)
            {
                $row = mysqli_fetch_row($result);
                if(isset($row[0]) && isset($row[1]) && isset($row[2]) && isset($row[3]))
                {
                    echo $i."<br>";
                    echo "ISBN : ".$row[0]."<br>";
                    echo "Book Name : ".$row[1]."<br>";
                    echo "Author Name : ".$row[2]."<br>";
                    echo "Publication Year : ".$row[3]."<br><br><br>";
                }
            }

            mysqli_close($conn);
        
```

```
?>

    <form action="Admin.php" method="POST" style="margin:auto;text-align:center;">
        <input type="submit" value="return to menu" style="background-color:aliceblue; width:300px; height:40px; border: 1px solid black; font-size:25px;">
    </form>

</div>

</body>

</html>
```

8. browse book student.php

```
<html>

<head>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>

<body>

    <?php
        session_start();

    ?>

    <br>
    <h1 id="upper">WELCOME <?php echo " ".$_SESSION["newUserName"]; ?> </h1>

    <div id="add_div">

        <?php

            $conn = mysqli_connect('localhost','root','philo') or die ('No connection');
            mysqli_select_db($conn, 'library') or die (' test will not open');
            $query = "SELECT * FROM book";
            $result = mysqli_query($conn, $query) or die("Invalid query");
            $num = mysqli_num_rows($result);

            for($i=1; $i<=$num; $i++)
            {
                $row = mysqli_fetch_row($result);
                if(isset($row[0]) && isset($row[1]) && isset($row[2]) && isset($row[3]))
                {
                    echo $i."<br>";
                    echo "ISBN : ".$row[0]."<br>";
                    echo "Book Name : ".$row[1]."<br>";
                    echo "Author Name : ".$row[2]."<br>";
                    echo "Publication Year : ".$row[3]."<br><br><br>";
                }
            }

            mysqli_close($conn);
        ?>
    </div>
</body>
```

```
?>

<form action="Student.php" method="POST" style="margin:auto;text-align:center;">
    <input type="submit" value="return to menu" style="background-color:aliceblue; width:300px; height:40px; border: 1px solid black; font-size:25px;">
</form>

</div>

</body>

</html>
```

9. extend.php

```
<html>

<head>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>

<body>

    <?php
        session_start();

    ?>

    <br>
    <h1 id="upper">WELCOME <?php echo " ".$_SESSION["newUserName"];?> </h1>

<div id="update_book_div">

    <?php

        $conn = mysqli_connect('localhost','root','philo') or die ('No connection');
        mysqli_select_db($conn, 'library') or die (' test will not open');
        $query1 = "SELECT * FROM borrow_book";
        $result1 = mysqli_query($conn, $query1) or die("Invalid query");
        $num1 = mysqli_num_rows($result1);

        for($i=1; $i<=$num1; $i++)
        {
            $row = mysqli_fetch_row($result1);

            {
                echo $i."<br>";
                echo "ISBN : ".$row[0]."<br>";
                echo "book name : ".$row[1]."<br>";
                echo "author name : ".$row[2]."<br>";
                echo "publication year : ".$row[3]."<br>";
                echo "borrower name : ".$row[4] . "<br>";
                echo "email : ".$row[5] . "<br>";
            }
        }
    }


```

```

        mysqli_close($conn);
    ?>

        <form action ="extend2.php" method="POST" style="margin:auto;text-align:center;">

            <p style="font-size:25px;" id="add_p">
                <label>ISBN</label>
                <input type="text" id="isbn" name="ISBN" placeholder="Enter the ISBN number" required style="width:350px;
                    height:40px;
                    border: 1px solid black;
                    font-size:25px;">

            </p>

            <input type="submit" value="submit" style="background-color:aliceblue;
                width:300px;
                height:40px;
                border: 1px solid black;
                font-size:25px;">

        </form>
    </div>
    </body>
</html>

```

10.extend2.php

```

<?php
    session_start();

    $isbn = $_POST["ISBN"];
    setcookie("borrow",$isbn, time() +3600*2);

    header("location: Admin.php");

?>

```

11.login.php

```
<html>

<body>

<?php
    $username = $_POST["newUserName"];
    $pass = $_POST["newUserPass"];
    $role = $_POST["role"];
    setcookie("mycookie", $username, time() + 3600 * 24);
    setcookie("mycookie2", $pass, time() + 3600 * 24);
    setcookie("mycookie4", $role, time() + 3600 * 24);

    if(isset($_COOKIE["mycookie"]) && isset($_COOKIE["mycookie2"]) && isset($_COOKIE["mycookie4"]))
    {
        session_start();
        if(!isset($_SESSION["newUserName"]) || isset($_SESSION["newUserName"]))
        {
            $_SESSION["newUserName"] = $username;
        }
        if(!isset($_SESSION["newUserPass"]) || isset($_SESSION["newUserPass"]))
        {
            $_SESSION["newUserPass"] = $pass;
        }
        if(!isset($_SESSION["role"]) || isset($_SESSION["role"]))
        {
            $_SESSION["role"] = $role;
        }
    }
?>

<?php

$role;

if($_POST["role"]=='admin')
{
    $username = $_POST["newUserName"];
    $pass = $_POST["newUserPass"];

    $conn = mysqli_connect('localhost', 'root', 'philo') or die ('No connection');
    mysqli_select_db($conn, 'library') or die (' test will not open');
```

```

        $query = "SELECT username FROM admin WHERE username='$username' AND pass=
'$pass'";
        $result = mysqli_query($conn, $query) or die("Invalid query outer");
        $num = mysqli_num_rows($result);

        if($num==1)
        {
            header("location: Admin.php");
            return false;
        }

        header("location: validation2.php");

        mysqli_close($conn);
    }

?>

<?php

if($_POST["role"]=='student')
{
    $username = $_POST["newUserName"];
    $pass = $_POST["newUserPass"];

    $conn = mysqli_connect('localhost','root','philo') or die ('No connection
');
    mysqli_select_db($conn, 'library') or die (' test will not open');
    $query = "SELECT username FROM student WHERE username='$username' AND pas
s='$pass'";
    $result = mysqli_query($conn, $query) or die("Invalid query outer");
    $num = mysqli_num_rows($result);

    if($num==1)
    {
        header("location: Student.php");
        return false;
    }

    header("location: validation2.php");

    mysqli_close($conn);
}

```

```
?>

</body>

</html>
```

12.message.php

```
<?php
    session_start();

    $email = $_POST["emailMessage"];
    $message = $_POST["message"];
    echo $message;

    $conn = mysqli_connect('localhost', 'root', 'philo') or die ('No connection');
    mysqli_select_db($conn, 'library') or die (' test will not open');
    $query = "SELECT * FROM student";
    $result = mysqli_query($conn, $query) or die("Invalid query");
    $num = mysqli_num_rows($result);

    for($i=0; $i<=$num; $i++)
    {
        $row = mysqli_fetch_row($result);
        if($row[1]==$email)
        {echo $message;

            $query = "UPDATE student SET message='$message' WHERE email='$email' ";
            $result = mysqli_query($conn, $query) or die("Invalid query");
;
            header("location: Admin.php");
        }
    }

    mysqli_close($conn);
?>
```

13.return_book.php

```
<html>

<head>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>

<body>

    <?php
        session_start();

    ?>

    <br>
    <h1 id="upper">WELCOME <?php echo " ".$_SESSION["newUserName"];?> </h1>

<div id="update_book_div">

    <?php

        $username = $_SESSION["newUserName"];

        $conn = mysqli_connect('localhost','root','philo') or die ('No connection');
        mysqli_select_db($conn, 'library') or die (' test will not open');
        $query = "SELECT * FROM borrow_book";
        $result = mysqli_query($conn, $query) or die("Invalid query");
        $num = mysqli_num_rows($result);

        for($i=1; $i<=$num; $i++)
        {
            $row = mysqli_fetch_row($result);
            if($row[4]==$username)
            {
                $email = $row[5];
                echo $i."<br>";
                echo "ISBN : ".$row[0] . "<br>";
                echo "Book Name : ".$row[1] . "<br>";
                echo "Author Name : ".$row[2] . "<br>";
                echo "Publication Year : ".$row[3] . "<br>";
                echo "Borrower Username : ".$row[4] . "<br>";
                echo "Borrower Email : ".$row[5] . "<br><br><br>";
            }
        }
    ?>
```

```
        }

    }

mysqli_close($conn);

?>

<form action="Student.php" method="POST" style="margin:auto;text-align:center;">

    <p style="font-size:25px;" id="add_p">
        <label>ISBN</label>
        <input type="text" id="isbn" name="r_isbn" placeholder="Enter ISBN of book to return" required style="width:350px; height:40px; border: 1px solid black; font-size:25px;">
    </p>

    <input type="submit" value="Submit" style="background-color:aliceblue; width:300px; height:40px; border: 1px solid black; font-size:25px;">

</form>

</div>

</body>

</html>
```

14.send_message.php

```
<html>

<head>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>

<body>

    <?php
        session_start();

    ?>

    <br>
    <h1 id="upper">WELCOME <?php echo " ".$_SESSION["newUserName"];?> </h1>

<div id="update_book_div">

    <?php

        $conn = mysqli_connect('localhost','root','philo') or die ('No connection');
        mysqli_select_db($conn, 'library') or die (' test will not open');
        $query1 = "SELECT * FROM borrow_book";
        $result1 = mysqli_query($conn, $query1) or die("Invalid query");
        $num1 = mysqli_num_rows($result1);

        for($i=1; $i<=$num1; $i++)
        {
            $row = mysqli_fetch_row($result1);

            {
                echo $i."<br>";
                echo "username : ".$row[4] . "<br>";
                echo "email : ".$row[5] . "<br>";
            }
        }

        mysqli_close($conn);
    ?>
```

```
<form action ="message.php" method="POST" style="margin:auto;text-align:center;">

    <p style="font-size:25px;" id="add_p">
        <label>email</label>
        <input type="text" id="isbn" name="emailMessage" placeholder="Enter the email" required style="width:350px;
            height:40px;
            border: 1px solid black;
            font-size:25px;">

    </p>
    <p style="font-size:25px;">
        <label>message</label>
        <textarea name="message" rows="4" cols="50" placeholder="Enter the message"></textarea>
    </p>

    <input type="submit" value="send" style="background-color:aliceblue;
        width:300px;
        height:40px;
        border: 1px solid black;
        font-size:25px;">

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

15.signup.php

```
<html>

<body>

<?php
    $username = $_POST["newUserName"];
    $pass = $_POST["newUserPass"];
    $email = $_POST["newUserEmail"];
    $role = $_POST["role"];
    setcookie("mycookie",$username,time()+3600*24);
    setcookie("mycookie2",$pass,time()+3600*24);
    setcookie("mycookie3",$email,time()+3600*24);
    setcookie("mycookie4",$role,time()+3600*24);

    if(isset($_COOKIE["mycookie"]) && isset($_COOKIE["mycookie2"]) && isset($_COOKIE["mycookie3"]) && isset($_COOKIE["mycookie4"]))
    {
        session_start();
        if(!isset($_SESSION["newUserName"]) || isset($_SESSION["newUserName"]))
        {
            $_SESSION["newUserName"] = $username;
        }
        if(!isset($_SESSION["newUserPass"]) || isset($_SESSION["newUserPass"]))
        {
            $_SESSION["newUserPass"] = $pass;
        }
        if(!isset($_SESSION["newUserEmail"]) || isset($_SESSION["newUserEmail"]))
        {
            $_SESSION["newUserEmail"] = $email;
        }
        if(!isset($_SESSION["role"]) || isset($_SESSION["role"]))
        {
            $_SESSION["role"] = $email;
        }
    }
?>

<?php
    if($_POST["role"]=='admin')
    {
        $username = $_POST["newUserName"];
    }
}
```

```

$email = $_POST["newUserEmail"];
$pass = $_POST["newUserPass"];

$conn = mysqli_connect('localhost','root','philo') or die ('No connection
');
mysqli_select_db($conn, 'library') or die (' test will not open');
$query = "SELECT username FROM admin WHERE username='$username' ";
$result = mysqli_query($conn, $query) or die("Invalid query outer");
$num = mysqli_num_rows($result);
$query1 = "SELECT email FROM admin WHERE email='$email' ";
$result1 = mysqli_query($conn, $query1) or die("Invalid query outer");
$num1 = mysqli_num_rows($result1);

if($num>0 || $num1>0)
{
    header("location: validation.php");
    return false;
}

$query1 = "INSERT into admin (username,email,pass) VALUES('$username','$e
mail','$pass')";
$result1 = mysqli_query($conn, $query1) or die("Invalid query");

mysqli_close($conn);

header("location: Admin.php");
}
else
{
    $username = $_POST["newUserName"];
    $email = $_POST["newUserEmail"];
    $pass = $_POST["newUserPass"];

    $conn = mysqli_connect('localhost','root','philo') or die ('No connection
');
    mysqli_select_db($conn, 'library') or die (' test will not open');
    $query = "SELECT username FROM student WHERE username='$username' ";
    $result = mysqli_query($conn, $query) or die("Invalid query outer");
    $num = mysqli_num_rows($result);
    $query1 = "SELECT email FROM student WHERE email='$email' ";
    $result1 = mysqli_query($conn, $query1) or die("Invalid query outer");
    $num1 = mysqli_num_rows($result1);

    if($num>0 || $num1>0)
    {

```

```
        header("location: validation.php");
        return false;
    }

    $query = "INSERT into student (username,email,pass) VALUES('{$username}', '{$email}', '{$pass}')";
    $result = mysqli_query($conn, $query) or die("Invalid query");

    mysqli_close($conn);

    header("location: Student.php");
}
?>

</body>

</html>
```

16.Student.php

```
<html>

<head>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>

<body>

    <?php
        session_start();

    ?>

    <?php
        /* update student details */

        if(isset($_POST["newUserName"]) && isset($_POST["newUserPass"]))
        {
            $old_username = $_COOKIE["mycookie"];
            $old_pass = $_COOKIE["mycookie2"];
            $username = $_POST["newUserName"];
            $pass = $_POST["newUserPass"];

            if(isset($_SESSION["newUserName"]))
            {
                $_SESSION["newUserName"] = $username;
            }
            if(isset($_SESSION["newUserPass"]))
            {
                $_SESSION["newUserPass"] = $pass;
            }

            $conn = mysqli_connect('localhost','root','philo') or die ('No connection');
            mysqli_select_db($conn, 'library') or die (' test will not open');
            $query = "SELECT * FROM student";
            $result = mysqli_query($conn, $query) or die("Invalid query");
            $num = mysqli_num_rows($result);

            for($i=1; $i<=$num; $i++)
            {
                $row = mysqli_fetch_row($result);
            }
        }
    ?>
```

```

        if($row[0]==$old_username && $row[2]==$old_pass)
        {
            $query = "UPDATE student SET username='$username' WHERE username='$old_username' ";
            $result = mysqli_query($conn, $query) or die("Invalid query");
            $query2 = "UPDATE student SET pass='$pass' WHERE pass='$old_pass' ";
            $result2 = mysqli_query($conn, $query2) or die("Invalid query");
        }
    }

    mysqli_close($conn);

}

?>

<?php
/* borrow a book */

if(isset($_POST["b_isbn"]))
{
    $isbn = $_POST["b_isbn"];
    setcookie("borrow",$isbn, time() +3600);
    if (isset($_COOKIE["borrow"]))
    {

        $book_name ;
        $author_name ;
        $pub_year ;
        $username = $_SESSION["newUserName"];
        $email ;

        $conn = mysqli_connect('localhost','root','philo') or die ('No connection');
        mysqli_select_db($conn, 'library') or die (' test will not open');
        $query = "SELECT * FROM book";
        $result = mysqli_query($conn, $query) or die("Invalid query outer");
        $num = mysqli_num_rows($result);

        for($i=1; $i<=$num; $i++)
        {

```

```

        $row = mysqli_fetch_row($result);
        if($row[0]==$isbn)
        {
            $book_name = $row[1];
            $author_name = $row[2];
            $pub_year = $row[3];

            $query1 = "SELECT * FROM student";
            $result1 = mysqli_query($conn, $query1) or die("Invalid query");
            $num1 = mysqli_num_rows($result1);

            for($i=1; $i<=$num1; $i++)
            {
                $row = mysqli_fetch_row($result1);
                if($row[0]==$username)
                {
                    $email = $row[1];
                }
            }

            $query2 = "INSERT into borrow_book (b_ISBN,b_book_name,b_author_name,b_pub_year,borrower_un,borrower_email ) VALUES('$isbn','$book_name','$author_name','$pub_year','$username','$email')";
            $result2 = mysqli_query($conn, $query2) or die("Invalid query");

            $query3 = "DELETE FROM book WHERE ISBN='$isbn' ";
            $result3 = mysqli_query($conn, $query3) or die("Invalid query");
        }
    }

    mysqli_close($conn);
}
}

?>

<?php
/* return a book */

if(isset($_POST["r_isbn"]))
{

```

```

$r_isbn = $_POST["r_isbn"];

$conn = mysqli_connect('localhost','root','philo') or die ('No connection');
mysqli_select_db($conn, 'library') or die (' test will not open');
$query = "SELECT * FROM borrow_book";
$result = mysqli_query($conn, $query) or die("Invalid query outer");
$num = mysqli_num_rows($result);

for($i=1; $i<=$num; $i++)
{
    $row = mysqli_fetch_row($result);
    if($row[0]==$_POST["r_isbn"])
    {
        $book_name = $row[1];
        $author_name = $row[2];
        $pub_year = $row[3];

        $query2 = "DELETE FROM borrow_book WHERE b_ISBN='$r_isbn'";
        $result2 = mysqli_query($conn, $query2) or die("Invalid query 2");

        $query1 = "INSERT into book (ISBN,book_name,author_name,publishing_year) VALUES('$r_isbn','$book_name','$author_name','$pub_year')";
        $result1 = mysqli_query($conn, $query1) or die("Invalid query 1");
    }
}

mysqli_close($conn);
}

?>

<br>
<h1 id="upper">WELCOME <?php echo " ".$_SESSION["newUserName"];?> </h1>
<div id="student_div">
<ol>
    <li><a href="update_student_det.php" >update details</a></li>
    <li><a href="browse_book_student.php" >Browsing books</a></li>
    <li><a href="borrow_book.php" >borrowing a book</a></li>
    <li><a href="return_book.php" >returning a book</a></li>
    <li><a href="view_messages.php" >view the messages</a></li>
    <li><a href="University_Library.html" >logout</a></li>

```

```
        </ol>
    </div>

</body>

</html>
```

17.update admin det.php

```
<html>

<head>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>

<body>

<?php
    session_start();
?>

<br>
<h1 id="upper">WELCOME <?php echo " ". $_COOKIE["mycookie"];?> </h1>
<div id="update_div">
    <h3>your Username <?php echo ":" . $_SESSION["newUserName"]?> </h3>
    <h3>your Password <?php echo ":" . $_SESSION["newUserPass"]?> </h3>
    <form method="POST" action="Admin.php" id="update_student_form">
        <label style="color: white">New Username</label>
        <input type="text" id="newUserName" name="newUserName" placeholder="enter new username" > <br><br>

        <label style="color: white">New Password</label>
        <input type="password" id="newUserPass" name="newUserPass" placeholder="enter new password" > <br><br>

        <input type="submit" value="Submit" name="submit" >
    </form>
</div>

</body>
</html>
```

18.update student det.php

```
<html>

<head>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>

<body>

    <?php
        session_start();
    ?>

    <br>
    <h1 id="upper">WELCOME <?php echo " ".$_COOKIE["mycookie"];?> </h1>
    <div id="update_div">
        <h3>your Username <?php echo ": " . $_SESSION["newUserName"]?> </h3>
        <h3>your Password <?php echo ": " . $_SESSION["newUserPass"]?> </h3>
        <form method="POST" action="Student.php" id="update_student_form">
            <label style="color: white">New Username</label>
            <input type="text" id="newUserName" name="newUserName" placeholder="enter new username" > <br><br>

            <label style="color: white">New Password</label>
            <input type="password" id="newUserPass" name="newUserPass" placeholder="enter new password" > <br><br>

            <input type="submit" value="Submit" name="submit" >
        </form>
    </div>

</body>
</html>
```

19.update book det.php

```
<html>

<head>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>

<body>

    <?php
        session_start();

    ?>

    <br>
    <h1 id="upper">WELCOME <?php echo " ".$_SESSION["newUserName"];?> </h1>

<div id="update_book_div">

    <?php

        $conn = mysqli_connect('localhost','root','philo') or die ('No connection');
        mysqli_select_db($conn, 'library') or die (' test will not open');
        $query = "SELECT * FROM book";
        $result = mysqli_query($conn, $query) or die("Invalid query");
        $num = mysqli_num_rows($result);

        for($i=1; $i<=$num; $i++)
        {
            $row = mysqli_fetch_row($result);
            if(isset($row[0]) && isset($row[1]) && isset($row[2]) && isset($row[3]))
            {
                echo $i."<br>";
                echo "ISBN : ".$row[0]."<br>";
                echo "Book Name : ".$row[1]."<br>";
                echo "Author Name : ".$row[2]."<br>";
                echo "Publication Year : ".$row[3]."<br><br><br><br>";
            }
        }

        mysqli_close($conn);
    ?>
```

```
?>

<form action="Admin.php" method="POST" style="margin:auto;text-align:center;">

    <p style="font-size:25px;" id="add_p">
        <label>Old ISBN</label>
        <input type="text" id="isbn" name="old_isbn" placeholder="Enter old ISBN to update book" required style="width:350px;
            height:40px;
            border: 1px solid black;
            font-size:25px;">
    </p>

    <p style="font-size:25px;" id="add_p">
        <label>New ISBN</label>
        <input type="text" id="isbn" name="new_isbn" placeholder="Enter New ISBN" required style="width:300px;
            height:40px;
            border: 1px solid black;
            font-size:25px;">
    </p>

    <p style="font-size:25px;" id="add_p">
        <label>New Book Name</label>
        <input type="text" id="book_name" name="new_book_name" placeholder="Enter New Book Name" required style="width:300px;
            height:40px;
            border: 1px solid black;
            font-size:25px;">
    </p>

    <p style="font-size:25px;" id="add_p">
        <label>New Author Name</label>
        <input type="text" id="author_name" name="new_author_name" placeholder="Enter New Author Name" required style="width:300px;
            height:40px;
            border: 1px solid black;
            font-size:25px;">
    </p>

    <p style="font-size:25px;" id="add_p">
        <label>New Publication year </label>
```

```
        <input type="text" id="pub_year" name="new_pub_year" placeholder="Enter New Publication Year" required style="width:320px;  
        height:40px;  
        border: 1px solid black;  
        font-size:25px;">  
    </p><br><br>  
  
    <input type="submit" value="Submit" style="background-color:aliceblue;  
    width:300px;  
    height:40px;  
    border: 1px solid black;  
    font-size:25px;">  
  
    </form>  
  
</div>  
  
</body>  
</html>
```

20.validation.php

```
<html>

<head>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>

<body>

    <?php
        session_start();
    ?>

    <br>
    <h1 id="upper">WELCOME <?php echo " ".$_SESSION["newUserName"];?> </h1>

    <div id="update_book_div">
        this username or email is taken <br>
        please enter a new username and email..
    </div>
    <form action="University_Library.html" method="POST" style="margin:auto;text-align:center;">
        <input type="submit" value="return to menu" style="background-color:aliceblue;
width:300px;
height:40px;
border: 1px solid black;
font-size:25px;">
    </form>
</body>
</html>
```

21.validation2.php

```
<html>

<head>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>

<body>

    <?php
        session_start();
    ?>

    <br>
    <h1 id="upper">WELCOME <?php echo " ". $_SESSION["newUserName"];?> </h1>

    <div id="update_book_div">
        This username are not signed in or there is an error in password <br>
        please enter a new username and password.
    </div>
    <form action="University_Library.html" method="POST" style="margin:auto;text-align:center;">
        <input type="submit" value="return to menu" style="background-color:aliceblue;
            width:300px;
            height:40px;
            border: 1px solid black;
            font-size:25px;">
    </form>
</body>
</html>
```

22.view messages.php

```
<html>

<head>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>

<body>

    <?php
        session_start();
    ?>

    <br>
    <h1 id="upper">WELCOME <?php echo " ".$_SESSION["newUserName"];?> </h1>

    <div id="update_book_div">
    <?php
        $conn = mysqli_connect('localhost','root','philo') or die ('No connection');
        mysqli_select_db($conn, 'library') or die (' test will not open');
        $query = "SELECT * FROM student";
        $result = mysqli_query($conn, $query) or die("Invalid query");
        $num = mysqli_num_rows($result);
        for($i=0; $i<=$num; $i++)
        {
            $row = mysqli_fetch_row($result);
            if($row[0]==$_SESSION["newUserName"])
            {
                if($row[3]!="")
                {
                    echo $row[3];
                }
            }
        }

        mysqli_close($conn);
    ?>

    </div>
    <form action="Student.php" method="POST" style="margin:auto;text-align:center;">
```

```
        <input type="submit" value="return to menu" style="background-color:aliceblue;
width:300px;
height:40px;
border: 1px solid black;
font-size:25px;">
</form>
</body>
</html>
```

23.style.css

```
body {
    background-image: url(wallpaper.jpg);
    background-size: 100% 100%;
    height: 620px;
}

h1{
    text-align:center;
    font-size:70px;
    font-style: oblique;
    color: teal;
    background-color: thistle;
}

#div1{
    margin:auto;
    text-align:center;
}

#signUp{
    background-color:rgb(106, 60, 179);
    width:300px;
    height:40px;
    border: 1px solid black;
    font-size:25px;
}

#login{
    background-color:rgb(106, 60, 179);
    width:300px;
    height:40px;
```

```
border: 1px solid black;
font-size:25px;
}

#div2{
    margin:auto;
    text-align:center;
}
#div3{
    margin:auto;
    text-align:center;
}
#nameError{
    font-size:25px;
    color: red;
}

#admin_div
{
    background-color: black;
    height: 300px;
    width: 400px;
    margin:auto;
    text-align:left;
}

#student_div
{
    background-color: black;
    height: 300px;
    width: 400px;
    margin:auto;
    text-align:left;
}

li
{
    color: white;
    line-height: 40px;
    font-size: 20px;
    font-weight: bold;
}

a
```

```
{  
  color: white;  
}  
  
a:hover  
{  
  color: aqua;  
}  
  
#update_div  
{  
  background-color: black;  
  margin: auto;  
  text-align: left;  
  height: 400px;  
  width: 400px;  
  padding: 10px;  
  border-width: 1px;  
  border-style: solid;  
  border-color: white;  
}  
  
h3  
{  
  color: white;  
}  
  
#upper  
{  
  text-transform: uppercase;  
}  
  
#update_student_form  
{  
  margin: auto;  
  text-align: center;  
}  
  
#add_div  
{  
  background-color: black;  
  margin: auto;  
  text-align: left;  
  height: auto;  
  width: 600px;
```

```
padding: 10px;
border-width: 1px;
border-style: solid;
border-color: white;
color: white;
margin-bottom: 80px;
}

#add_p
{
    color: white;
}

#update_book_div
{
    background-color: black;
    margin:auto;
    text-align:left;
    height: auto;
    width: 600px;
    padding: 10px;
    border-width: 1px;
    border-style: solid;
    border-color: white;
    color: white;
    margin-bottom: 80px;
}
```

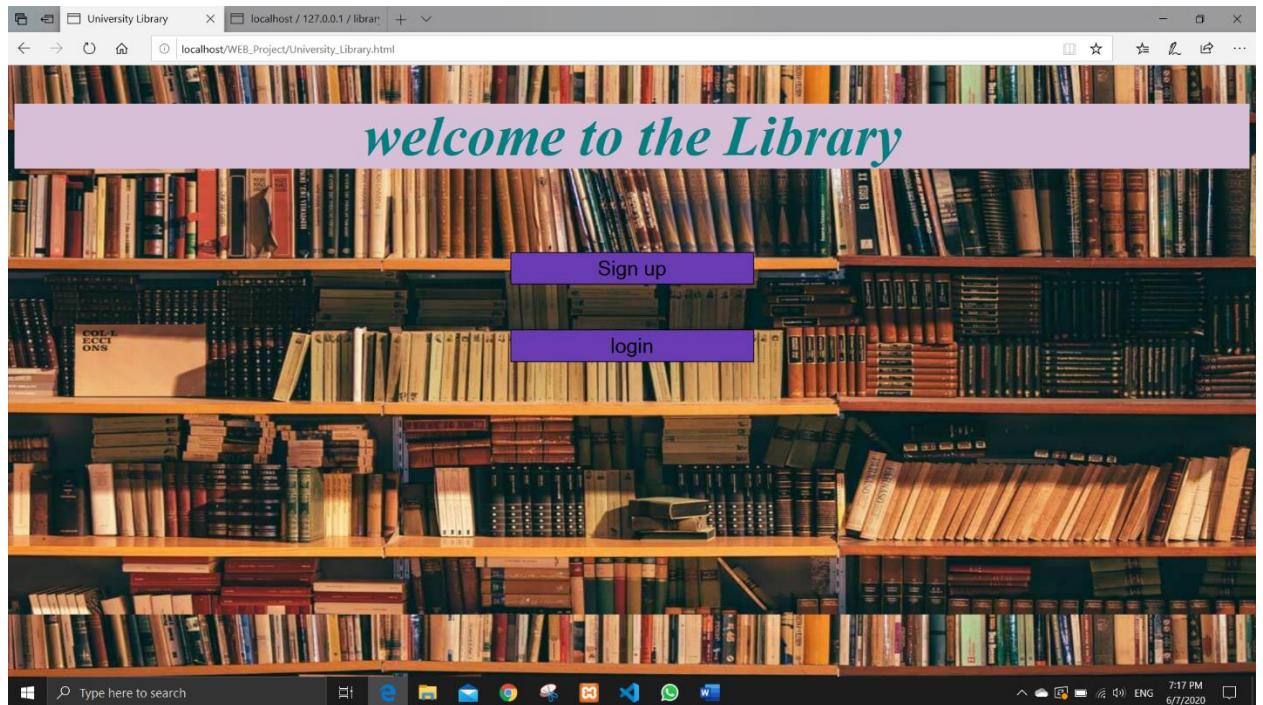
24. Image in css(wallpaper.jpg):



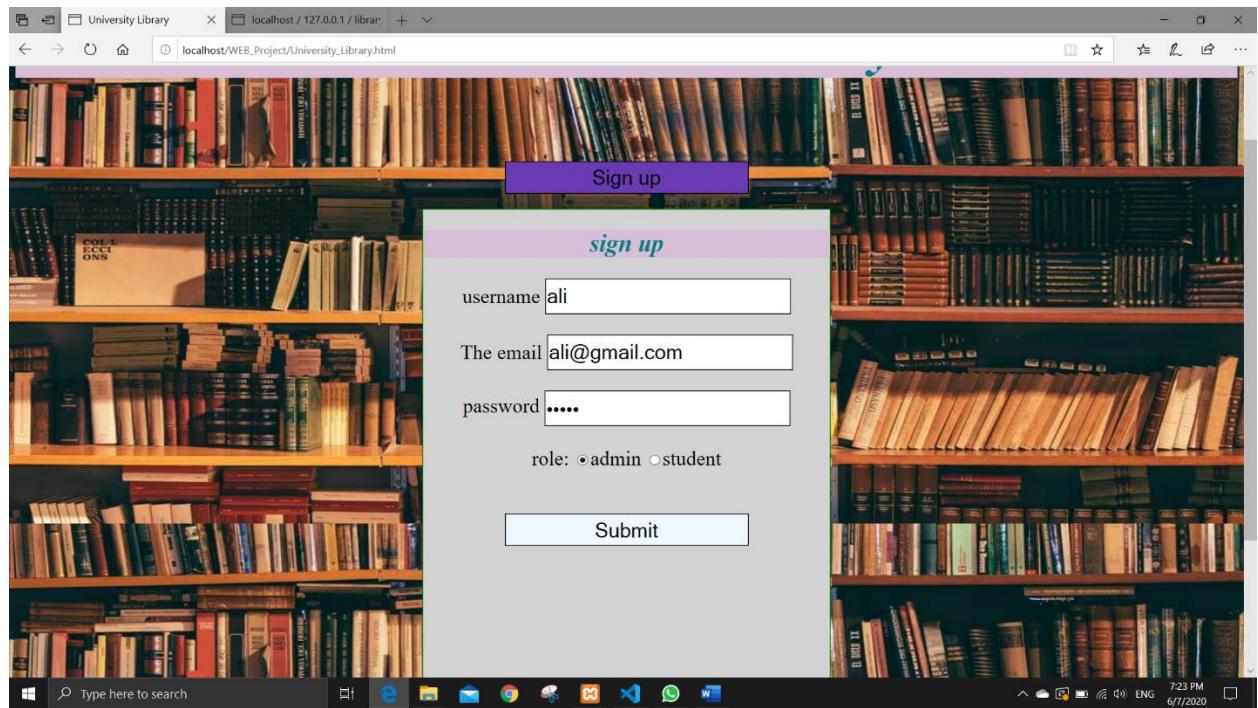
Chapter 3:

Output of system functions:

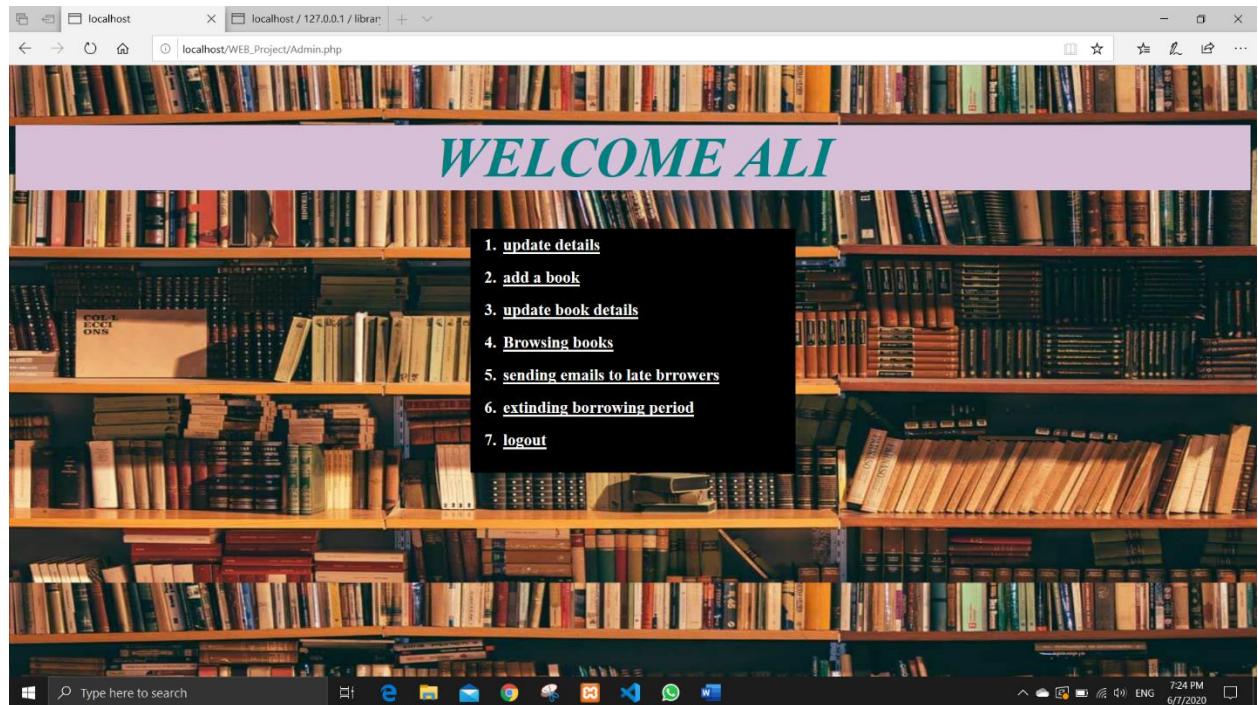
1. University library



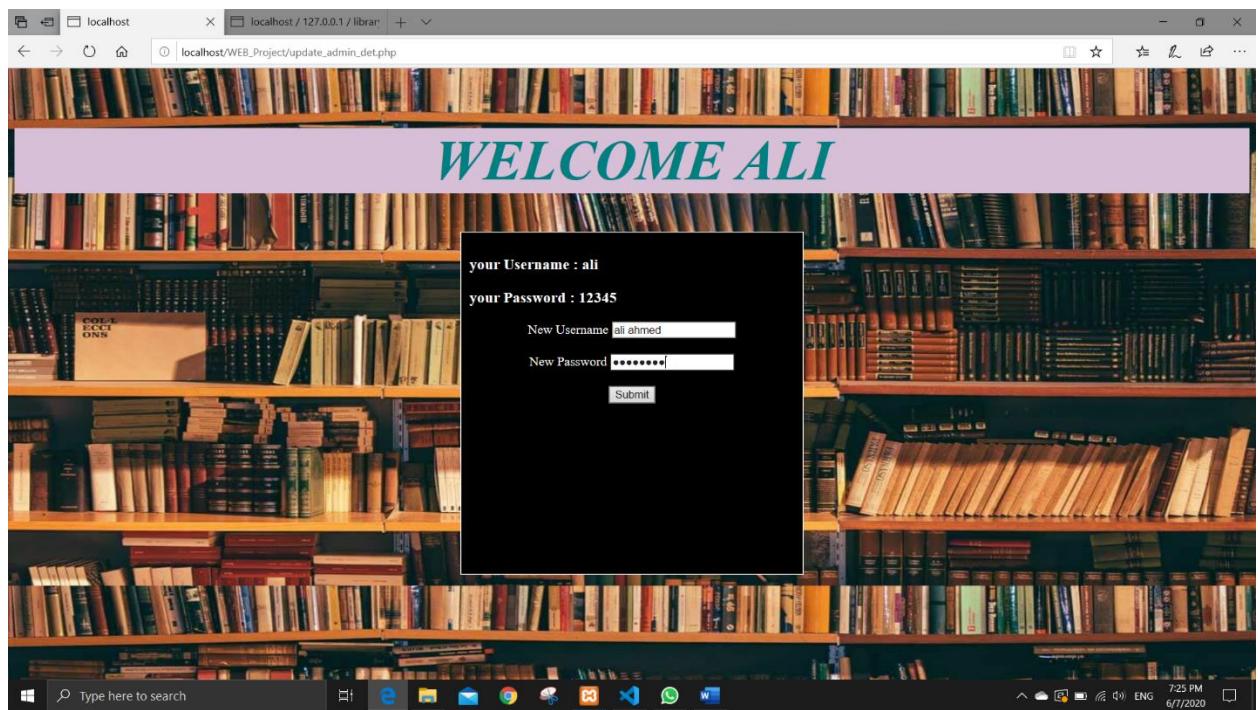
2. Signing up for an admin



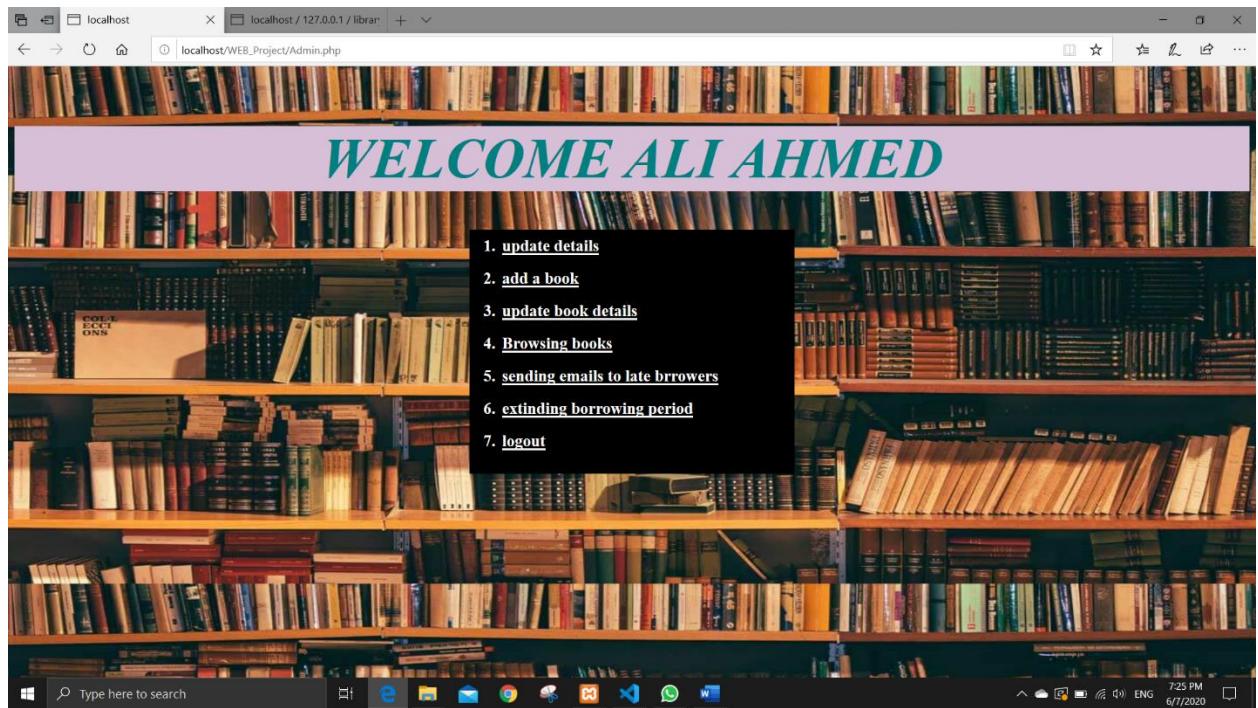
3. After signing up a new admin the system go to the main page to admin that contain all functions that admin can make



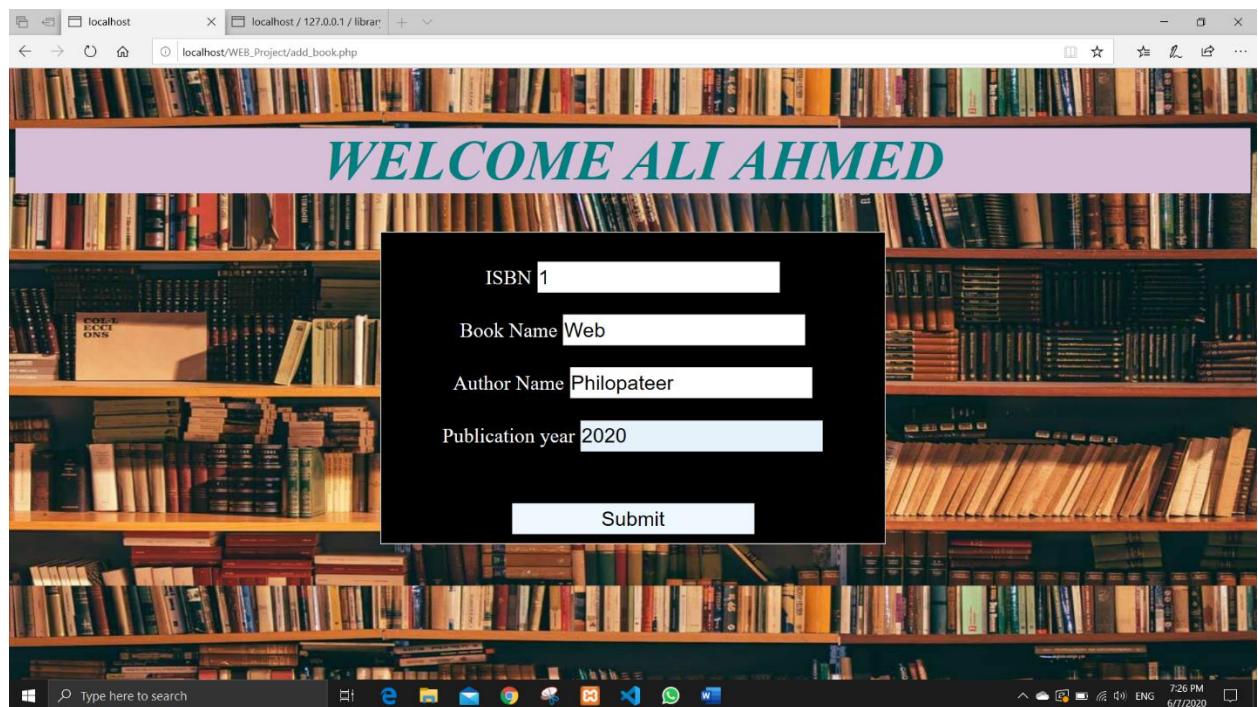
4. Update details function



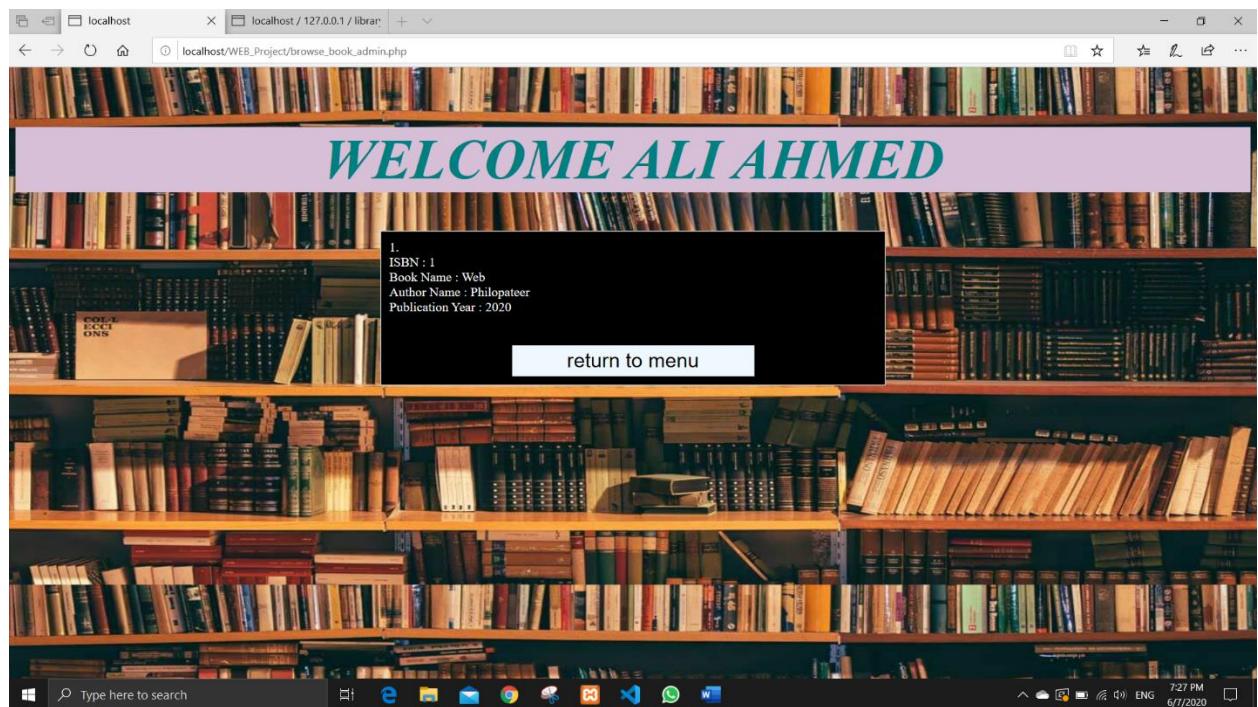
5. After submitting a new book the system will go again to the functions that admin can do



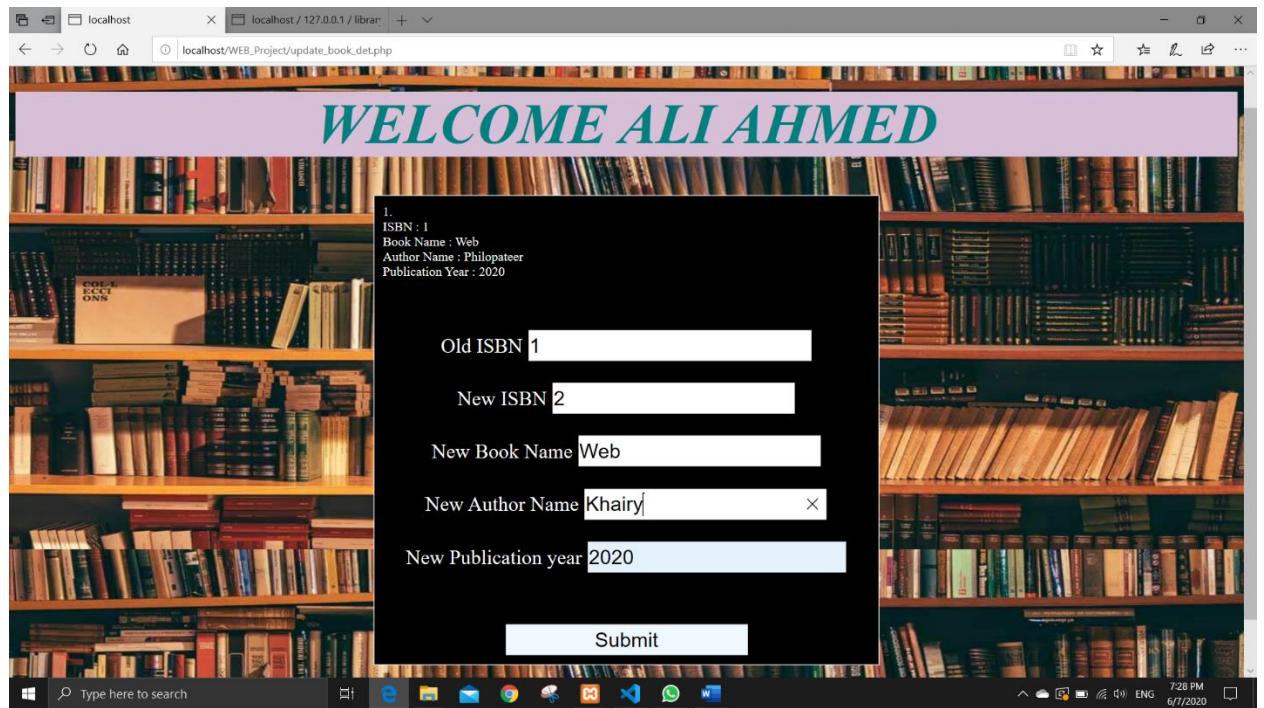
6. Add book function



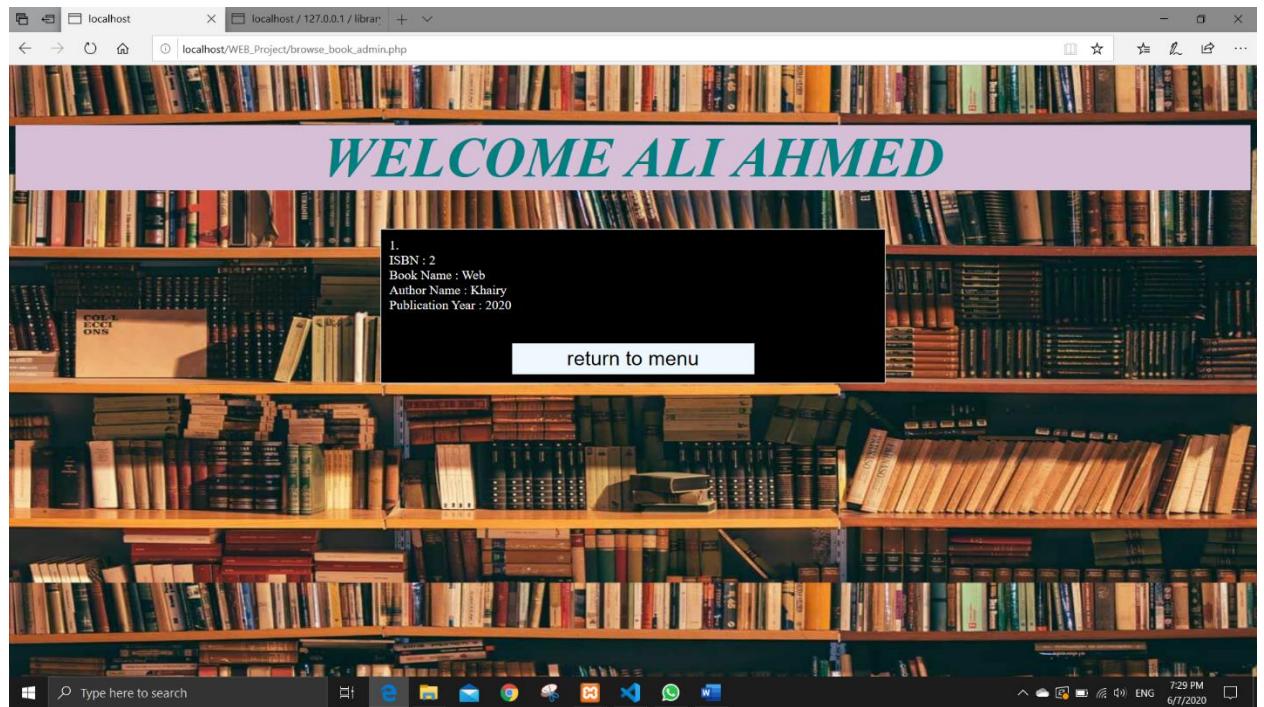
7. Browsing books



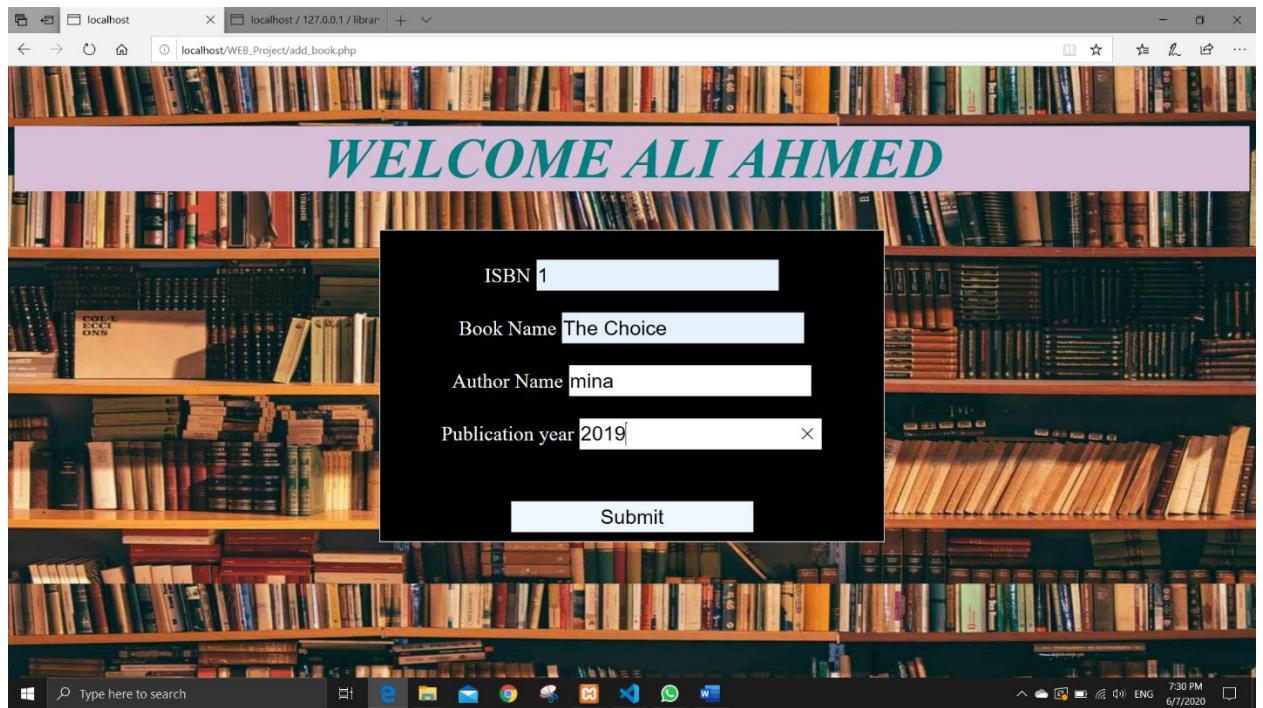
8. Update book details, accessing the book by its ISBN



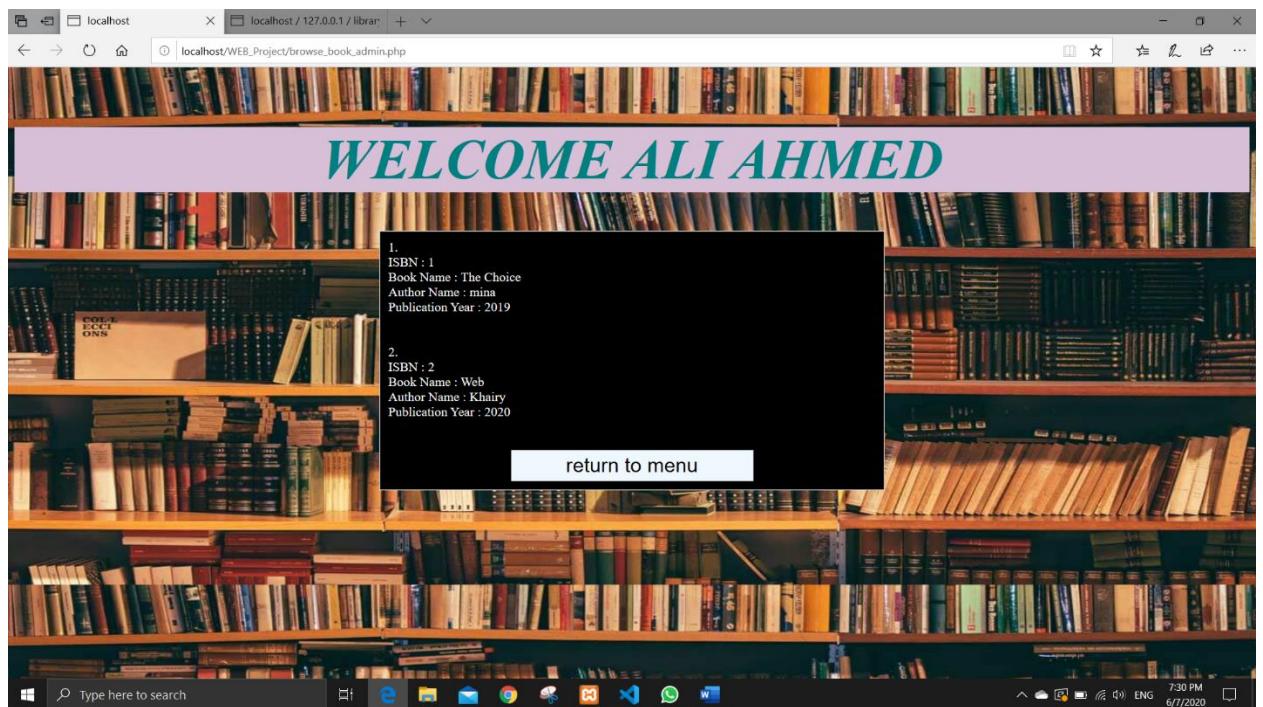
9. Browsing books that are in library now



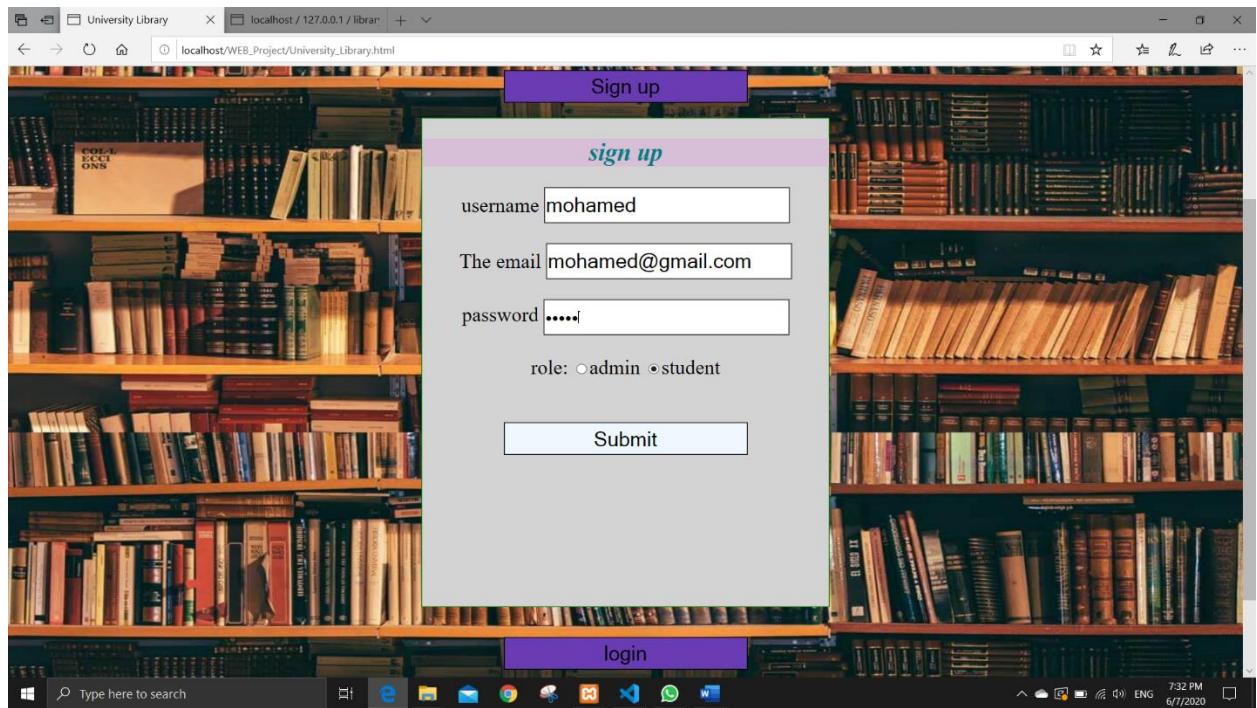
10. Add another book to the library



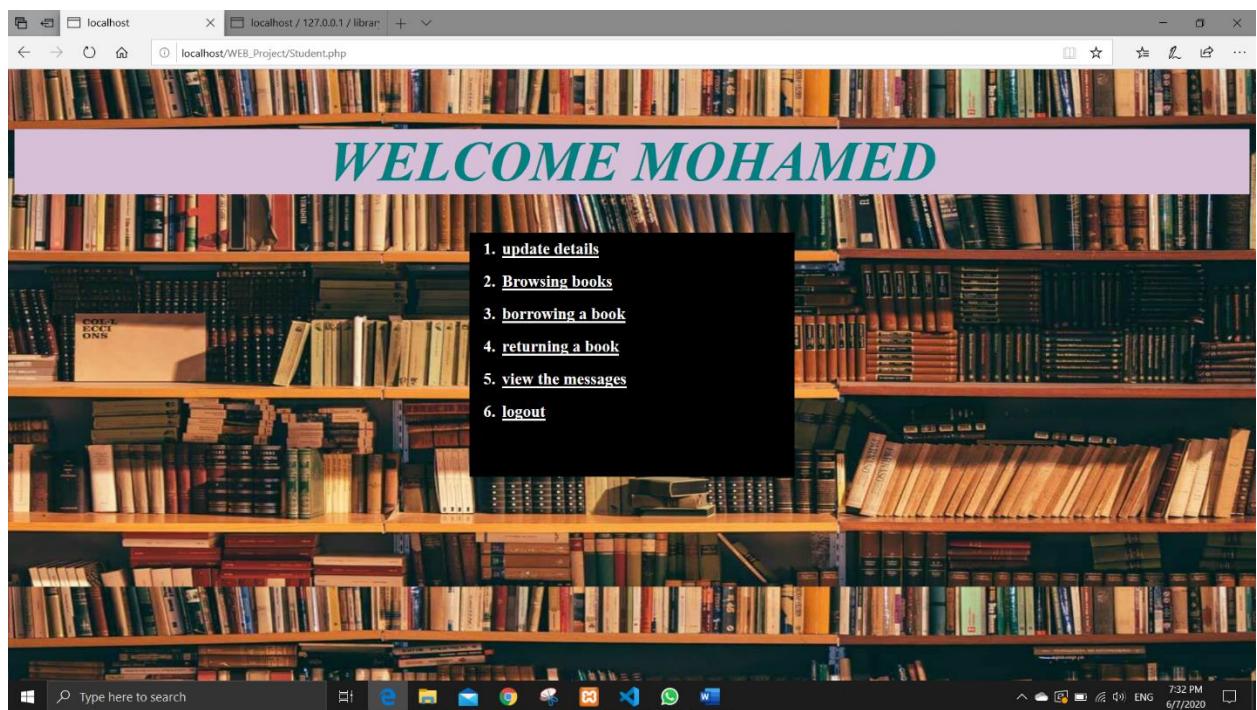
11. Browsing books that are in library now



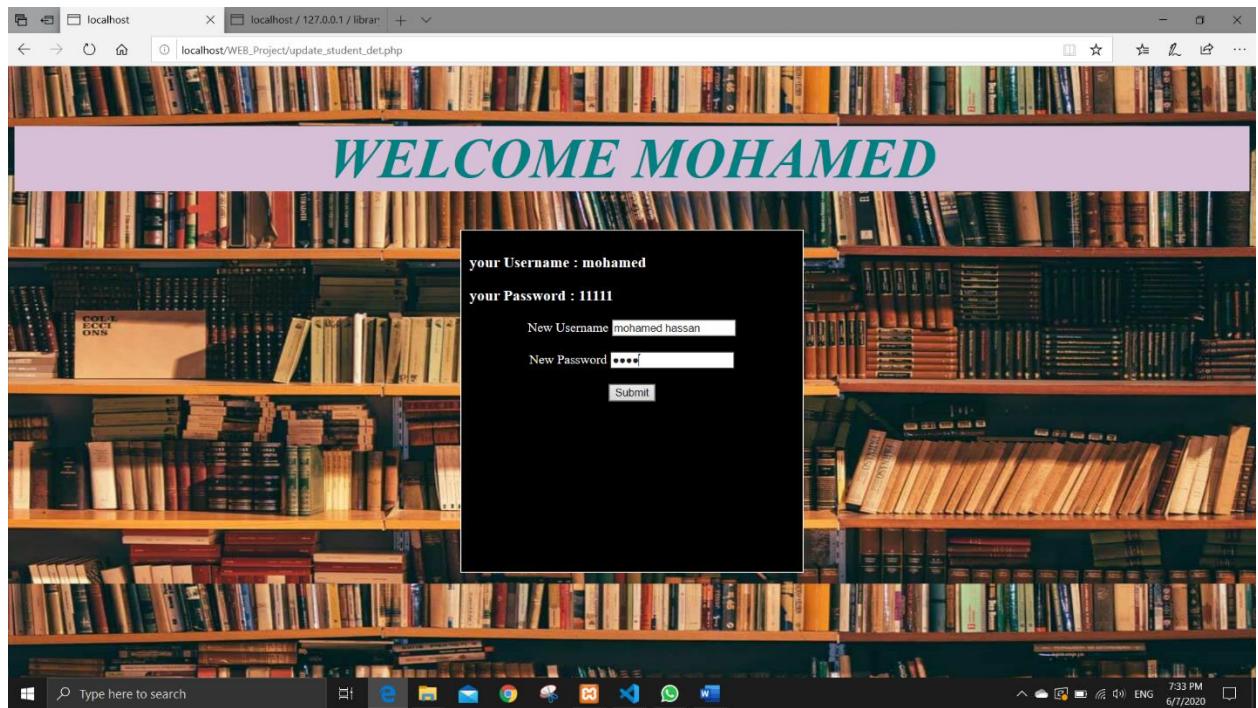
12. Logout as admin, and go to sign up first student



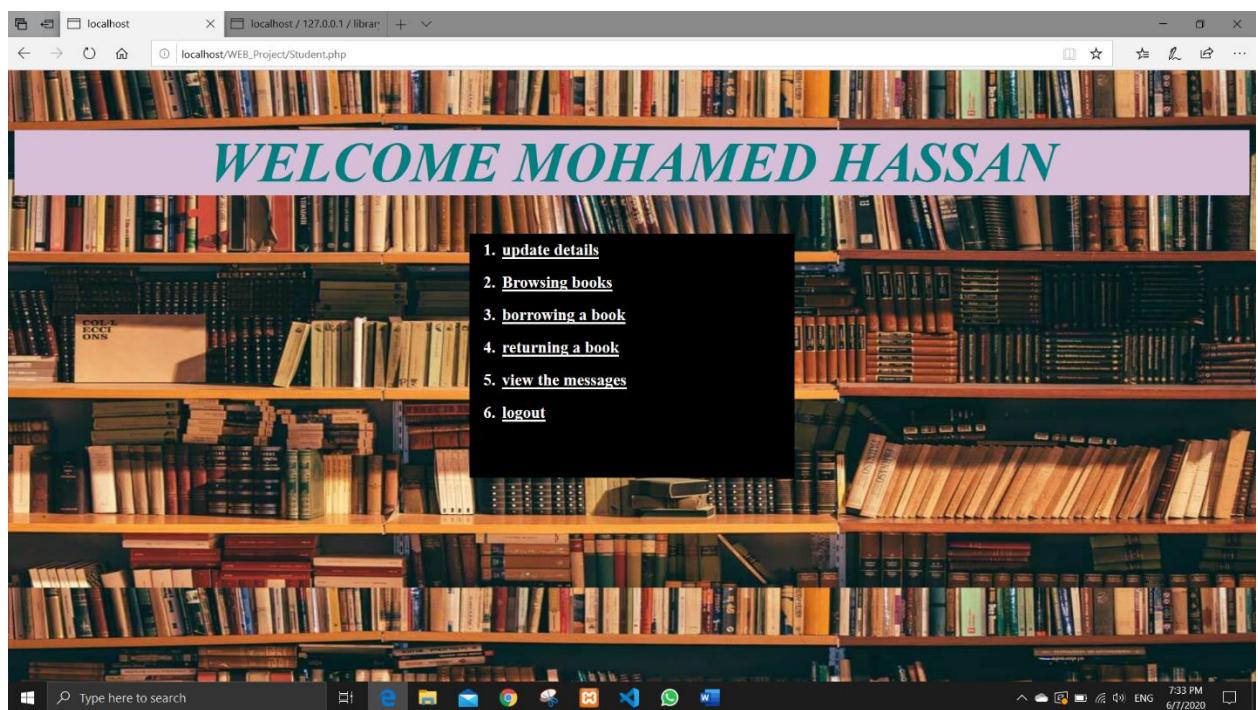
13. After signing up a new student the system go to the main page to student that contain all functions that student can make



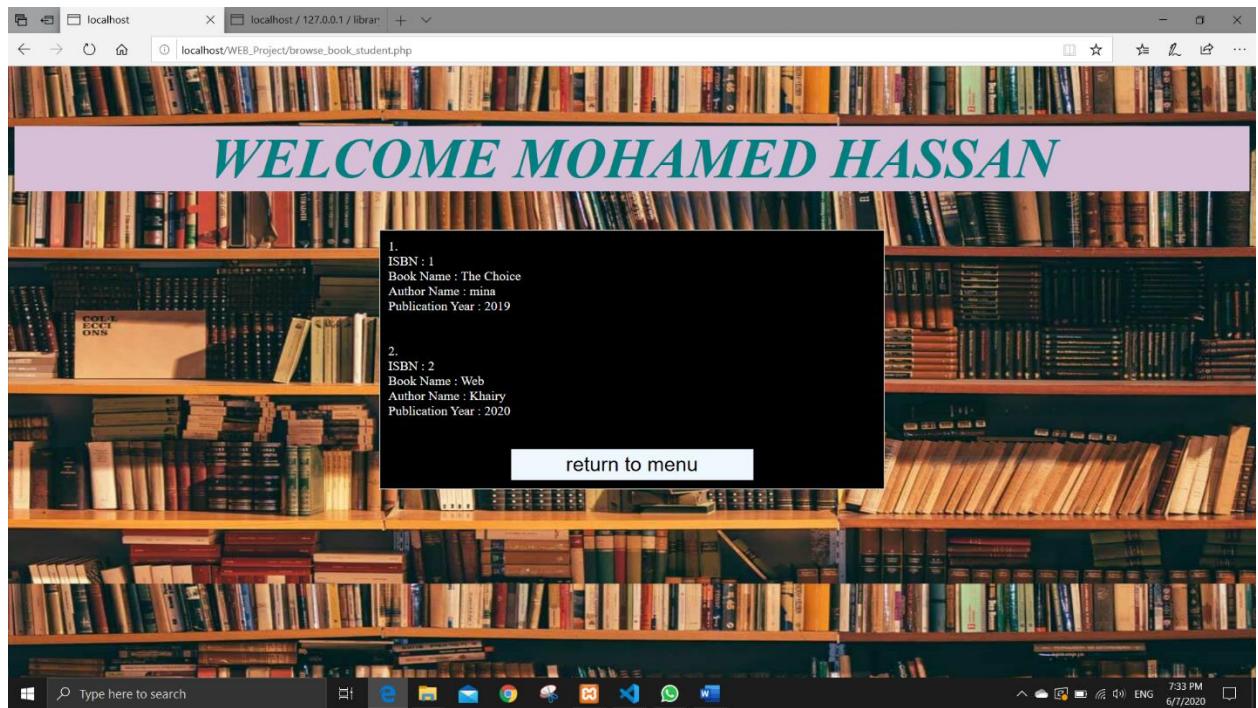
14. Update student details



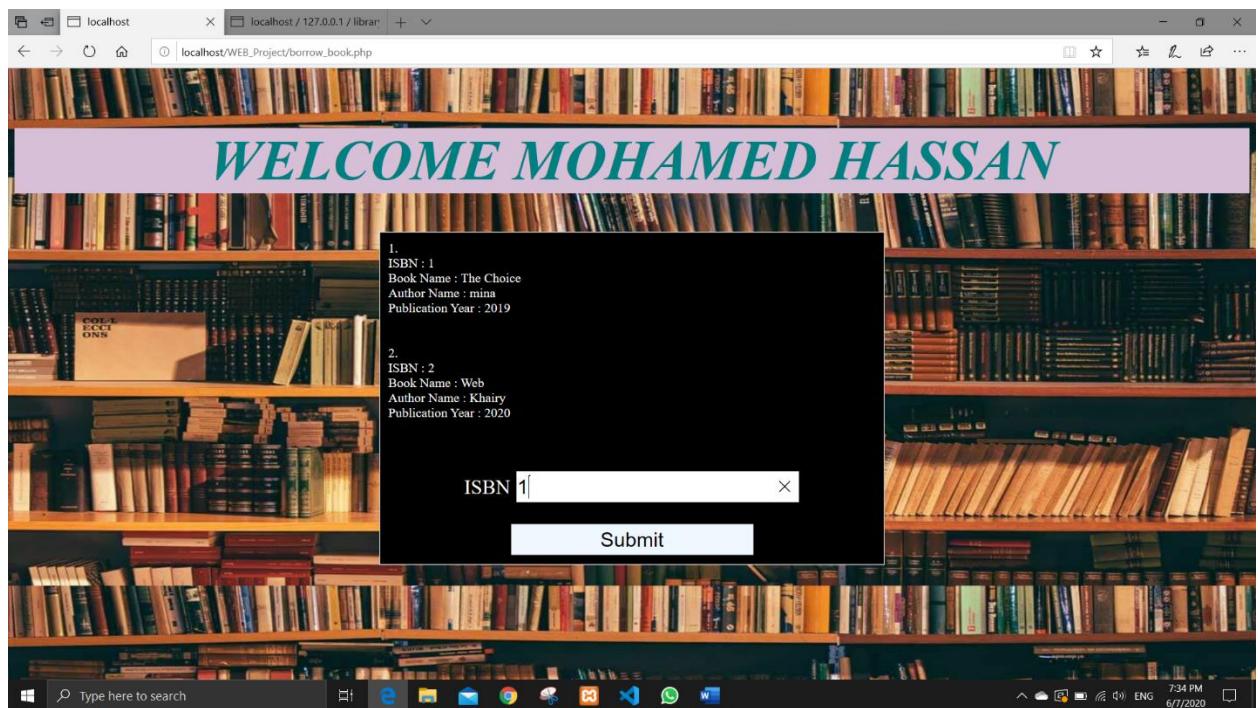
15. Note that the name of the student change in welcome statement



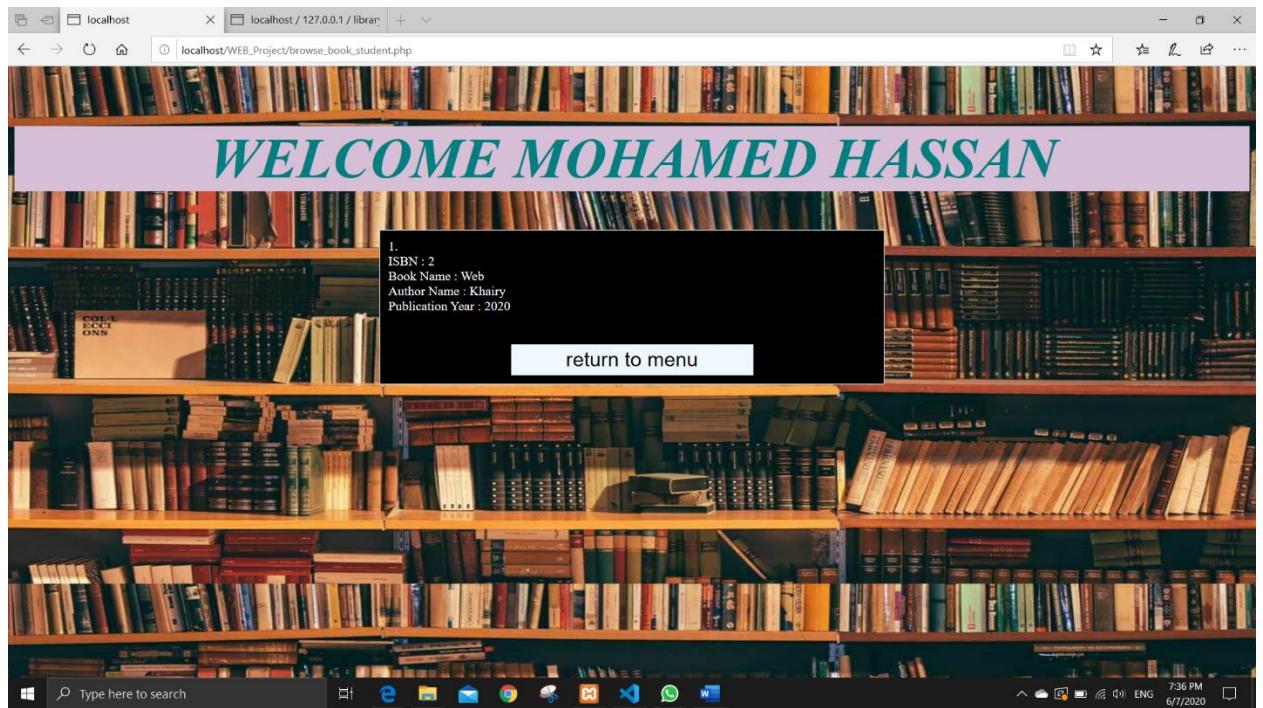
16. Browsing books for student side



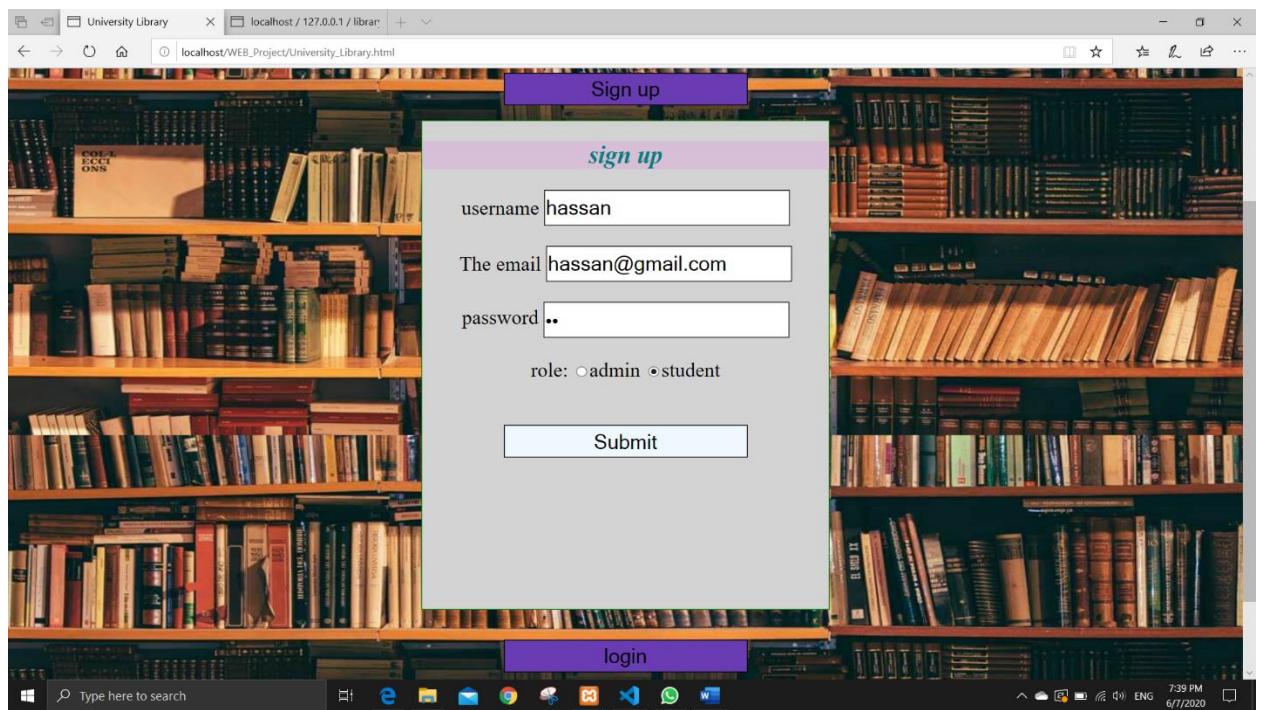
17. Borrow a book by mentioning its ISBN only



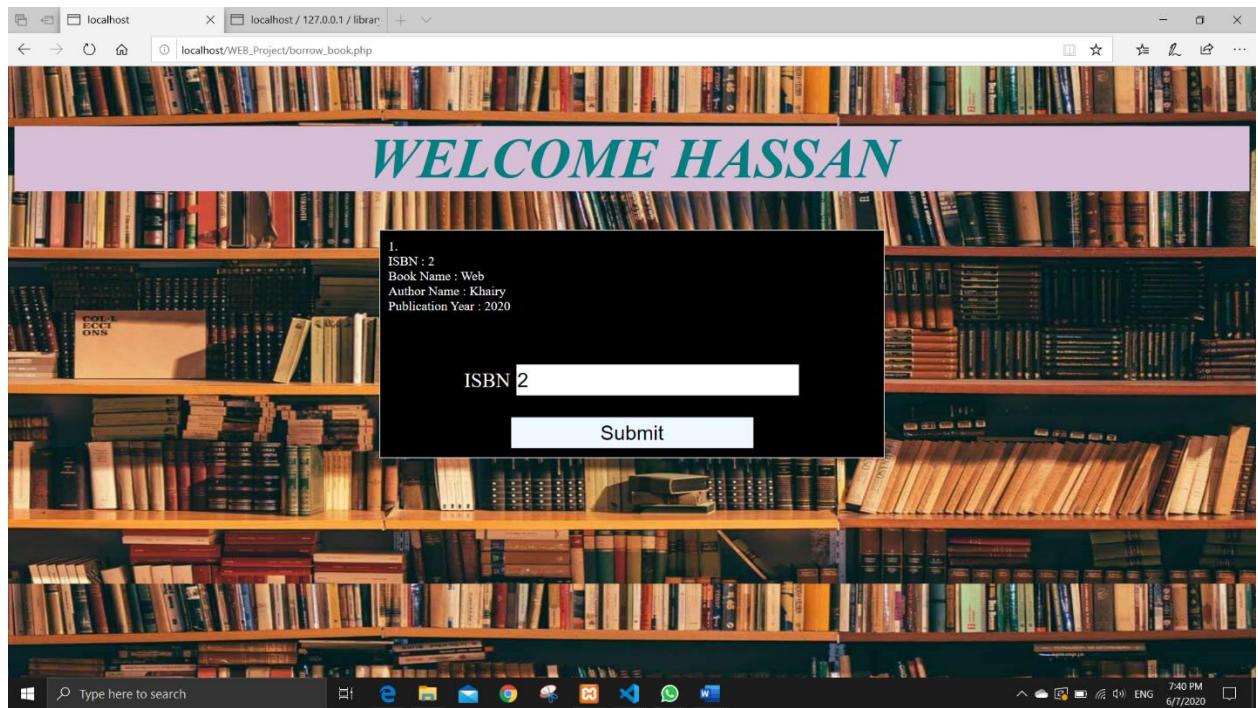
18. Browsing books that are in library now



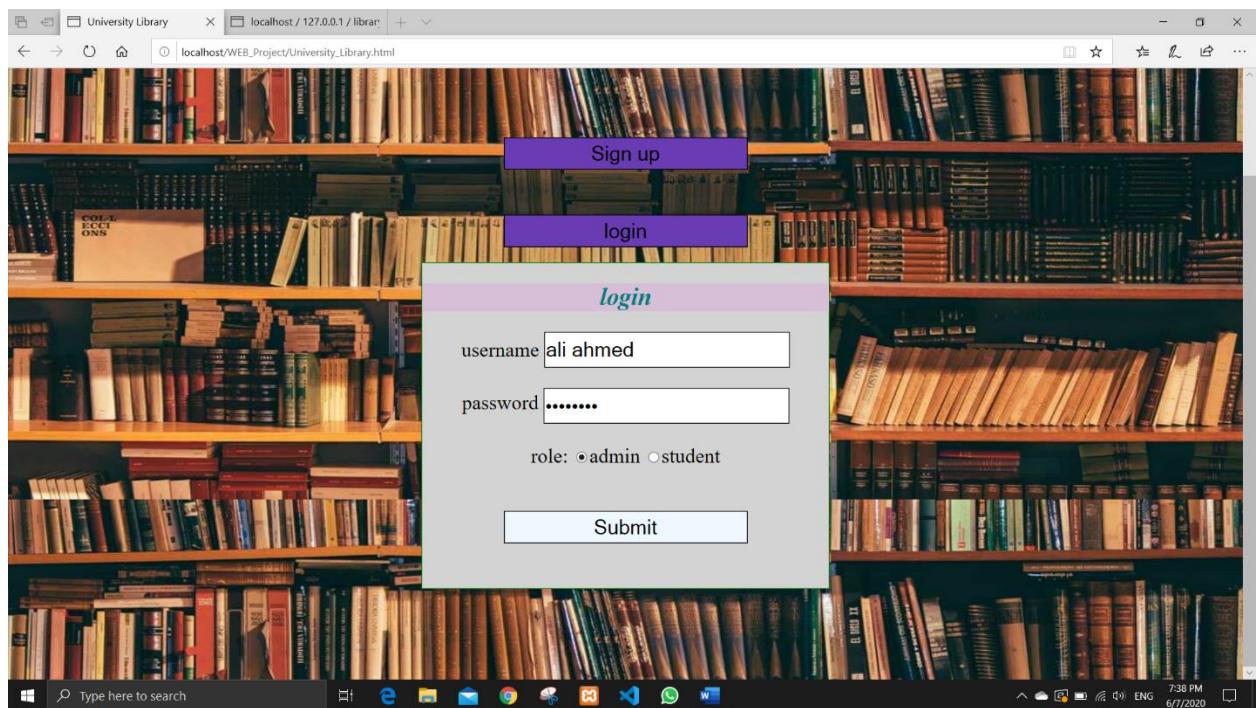
19. Signing up with a new student



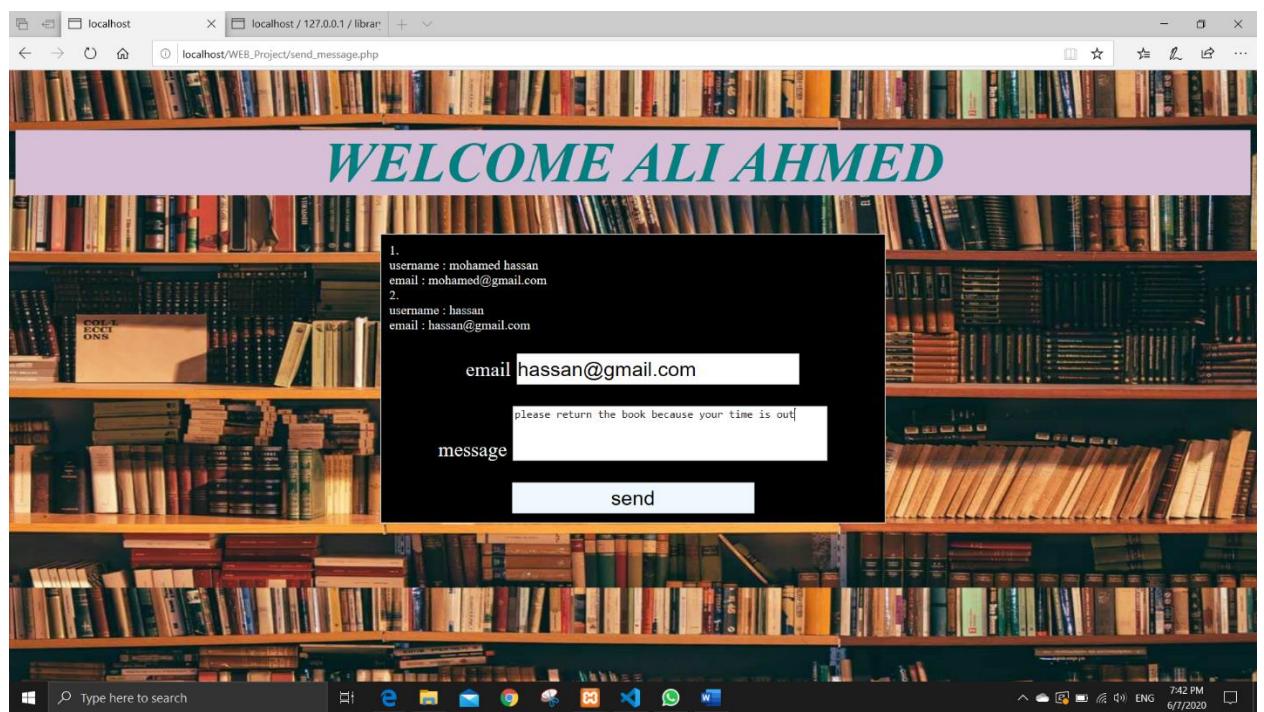
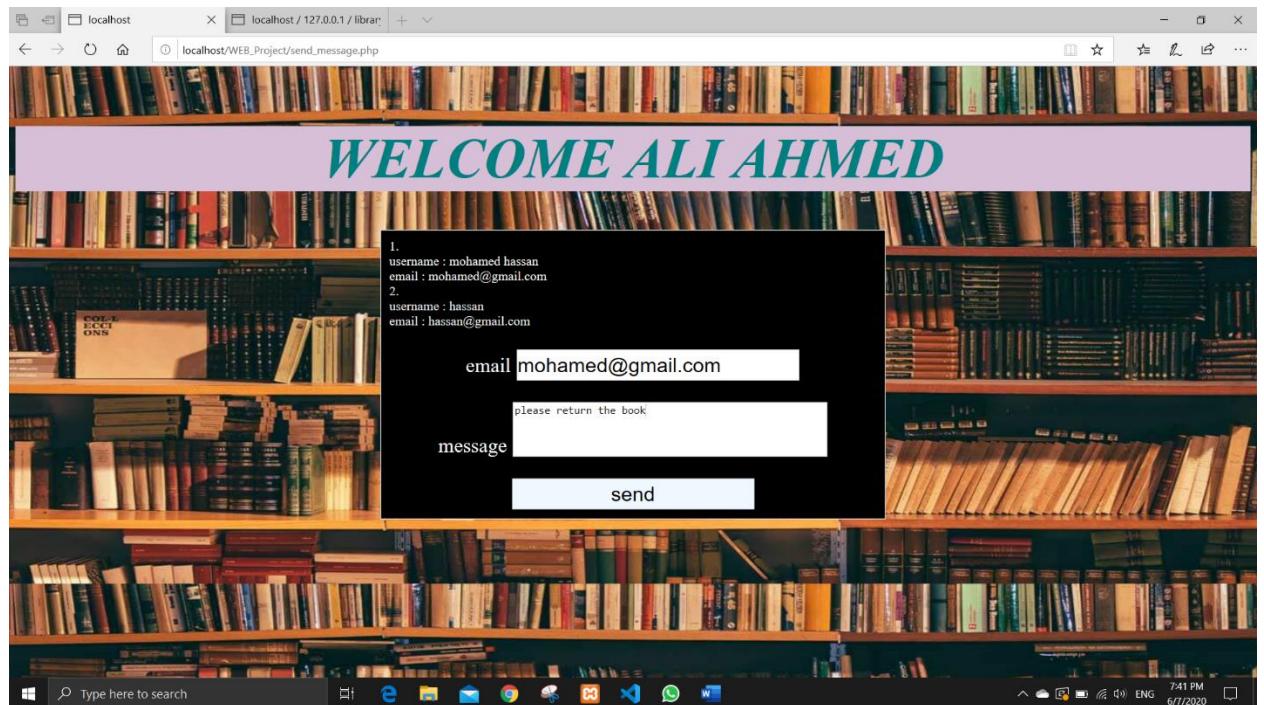
20. The new student borrow the only book in the library



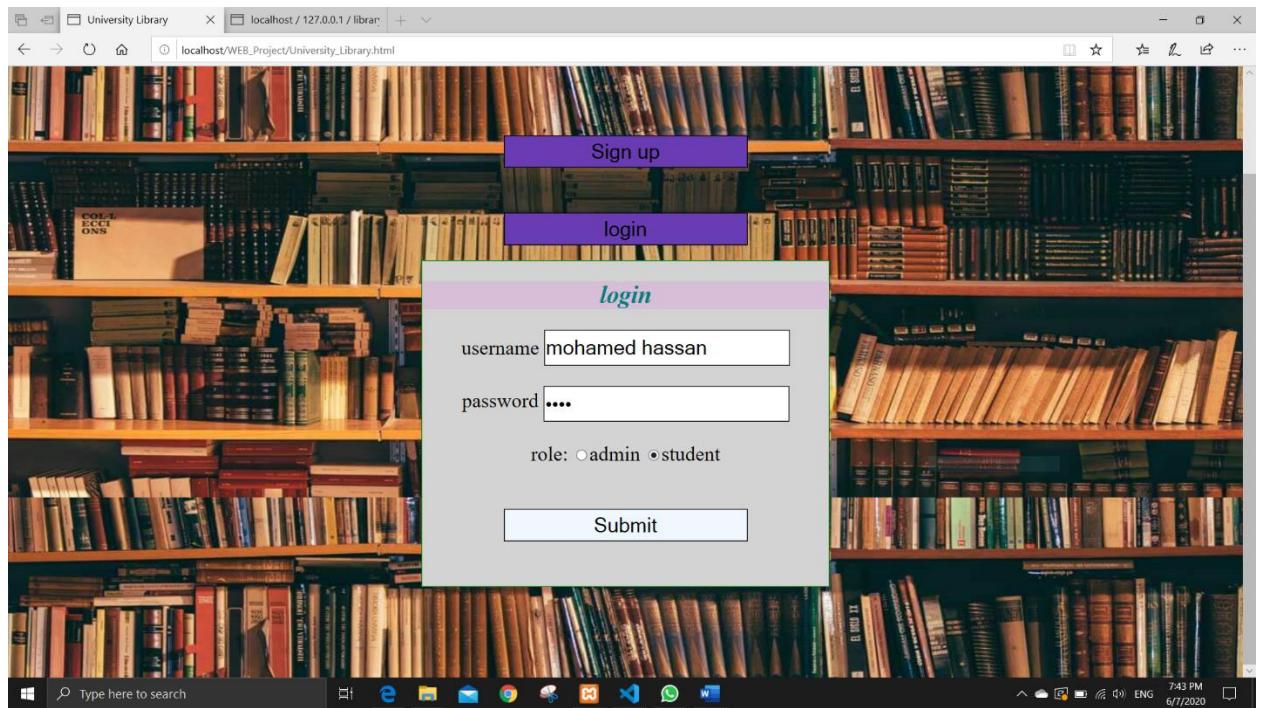
21. Logout from student and login as the only admin in the system



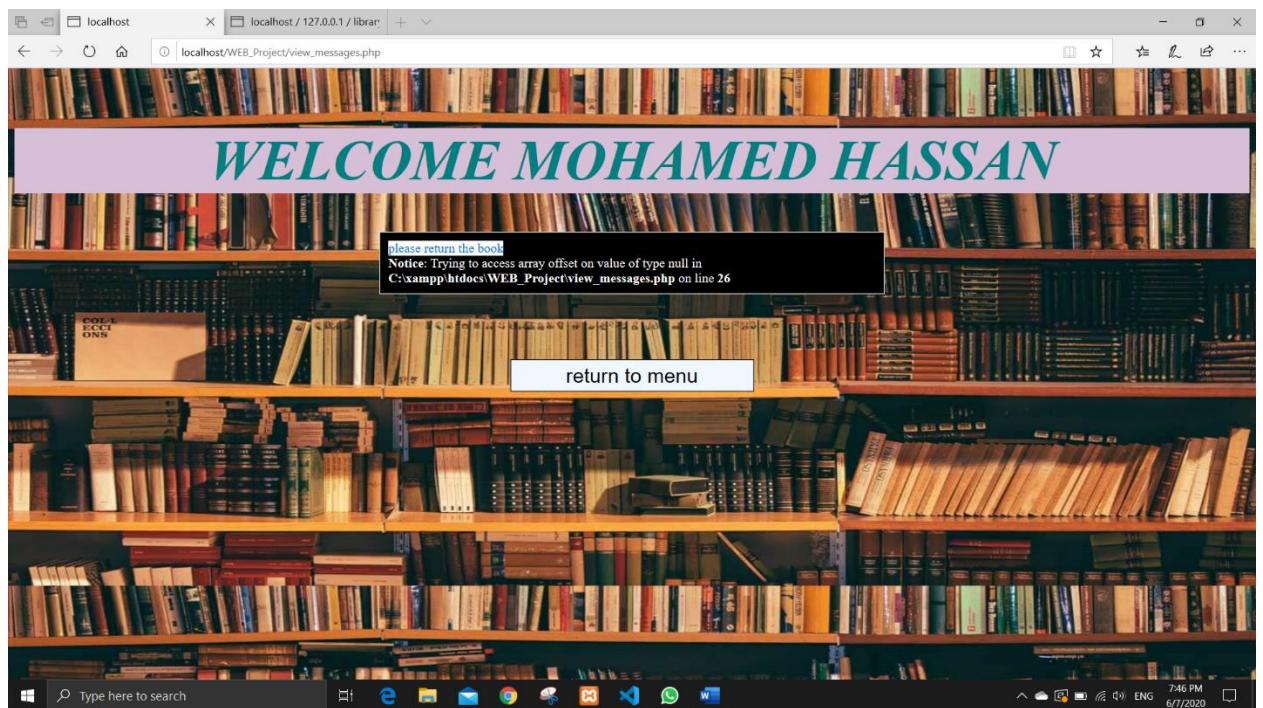
22. Sending two messages to the two borrowers



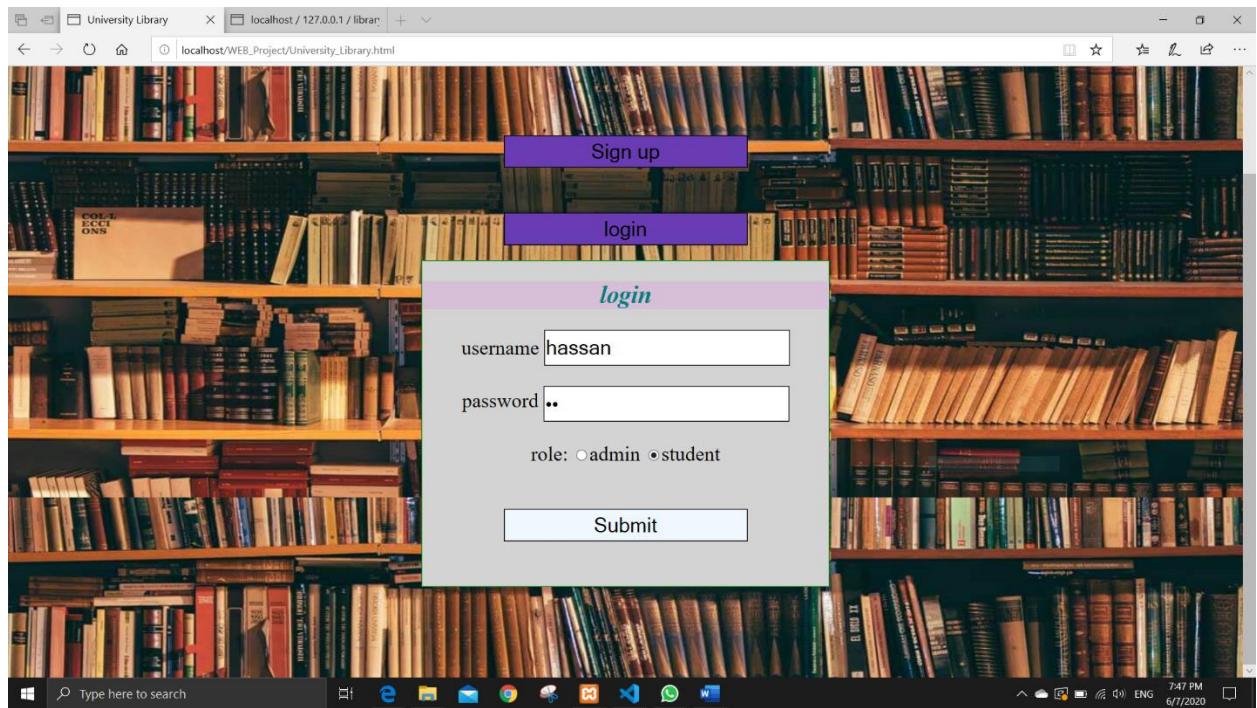
23. Login as first student



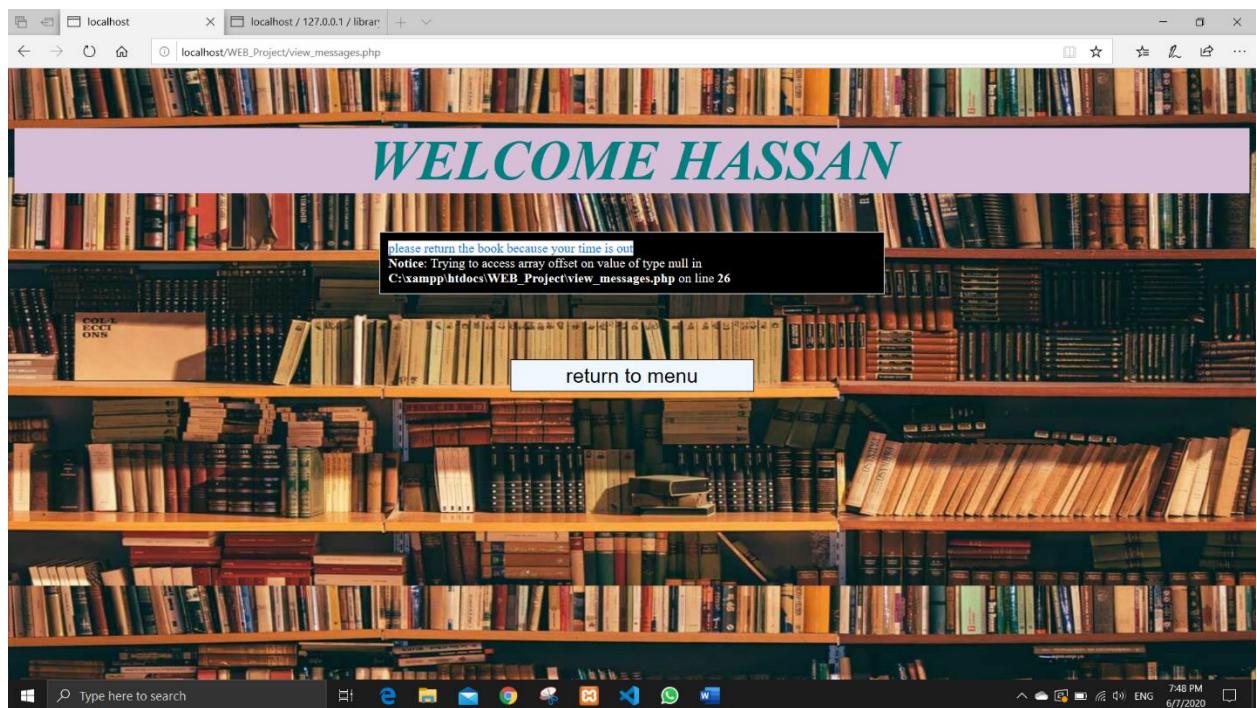
24. View message function in first student functions



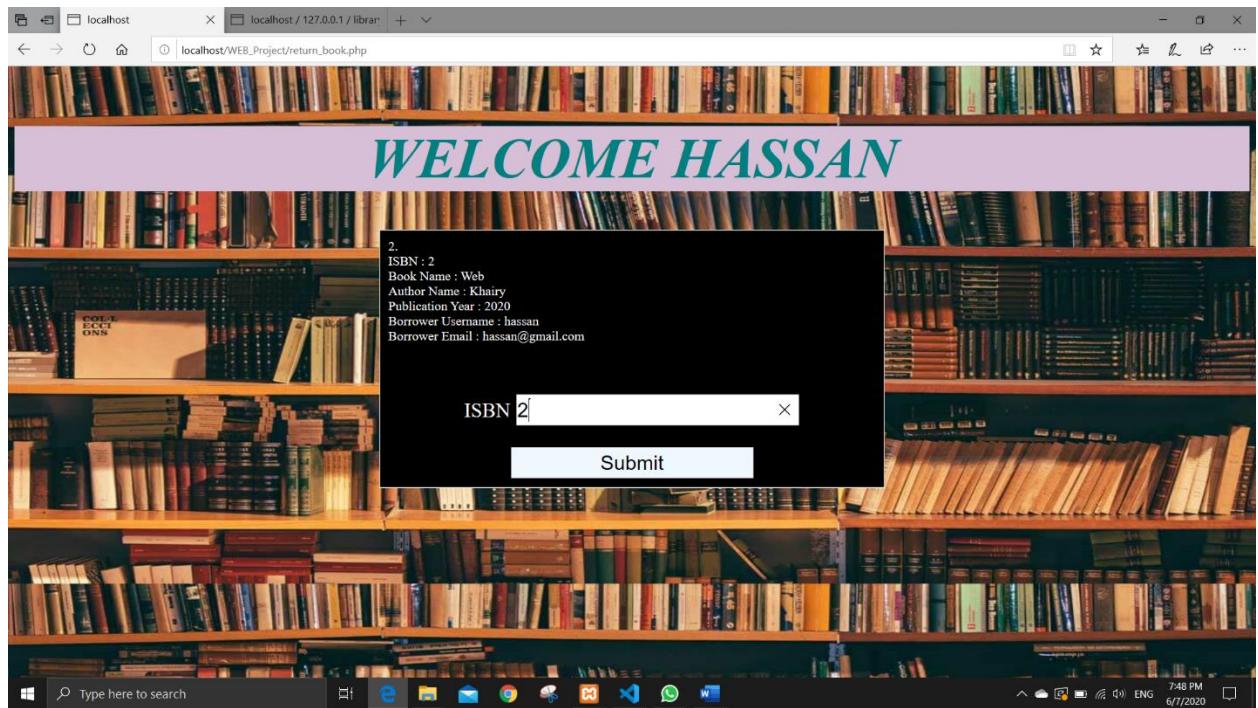
25. Login as the second student



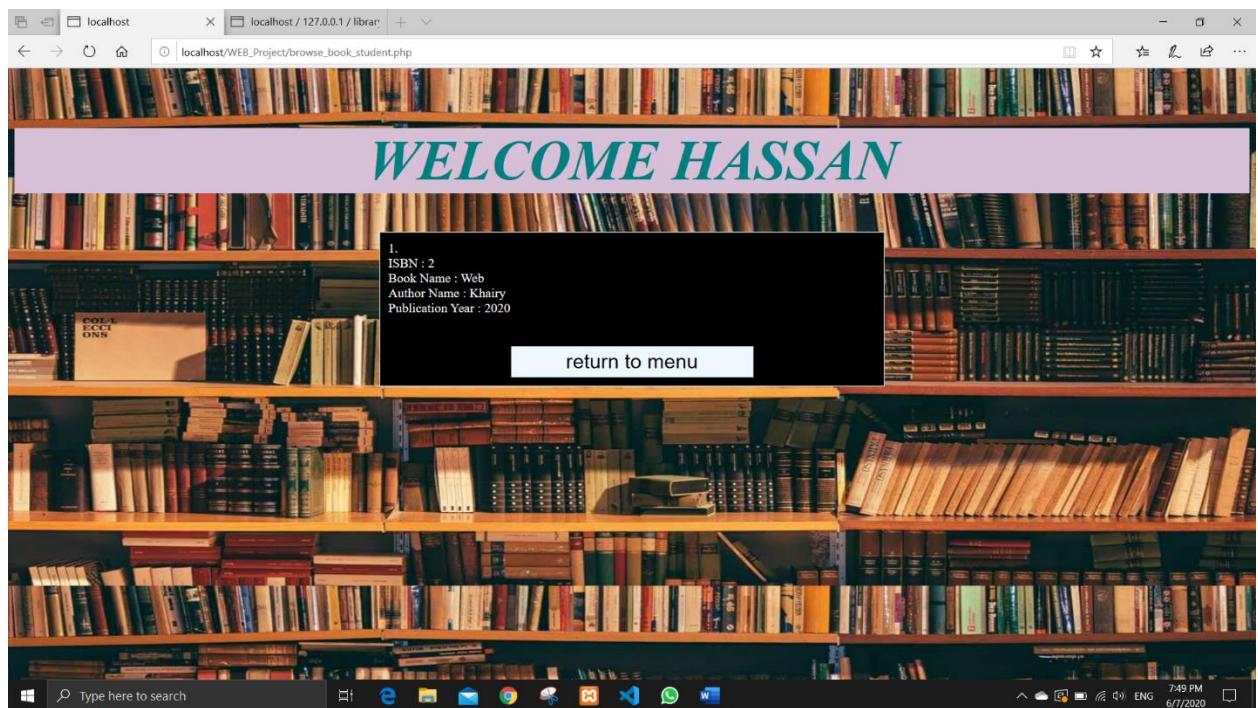
26. View message function in second student functions



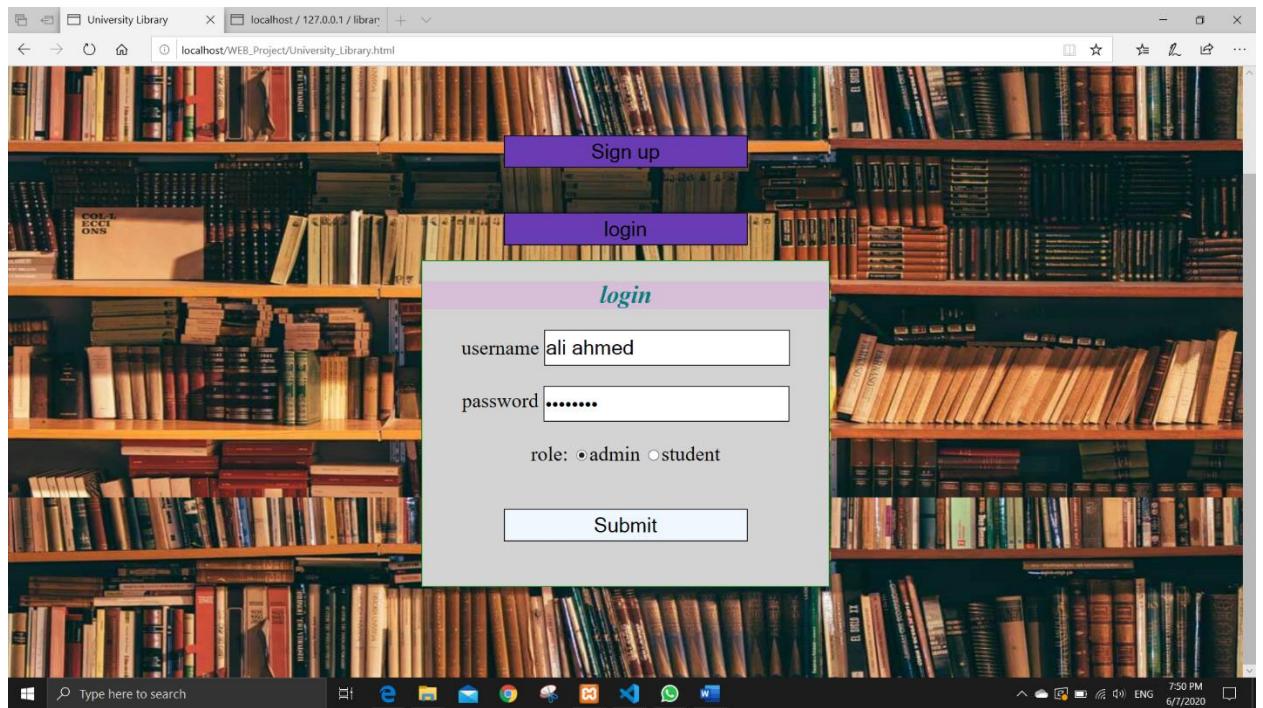
27. The second student return the book that he borrowed



28. Browsing the books that are in the library now



29. Login as admin again to see the latest function



30. Enter an ISBN for a book to extend its borrowing time

