

Cairo University  
Faculty of Computers and Artificial Intelligence  
Information Systems Department



**IS231**

# **Web Technology**

## **University Library Management**

**Team members :**

**Mahmoud Ashraf : 20180250 .**

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**Fady Emad :20180193 .**

## **1-Introduction :**

### **a) Description :**

**University Library Management system** is a system that allows to the users, student or admin, to make account in the system by their email . The student that have an account in the system are able to perform some operation as borrowing books ,return a book ,extend borrowing periods and browsing books that in the library system .When a student borrow a book the system gives him a specific date to return the borrowed book at .Also the student can extend the borrowing period of a specific book, for more 5 days each time, from its account and the student can change any detail in its account as name or password or email . The Admin is the controller of this system as he can add books to the database , he can change the book details ,he can send emails to the late borrowers , he can browse books and browse books that satisfy certain condition .

### **b) Technologies used :**

**-Ajax** : for browsing books ,to get the books from the database and print then in the user page .

**-javascript** : for calling ajax and client side validation.

**-php** : to connect with the database and make the site more dynamic.

**-Sessions :** used to store the data of the current user .

### c) Team members role :

Name	ID	Role
Mahmoud Ashraf	20180250	<a href="#"><u>admin functionalities.</u></a>
Nader Fikry	20180304	<a href="#"><u>login , Register a new user ,Documentation</u></a>
Fady Emad	20180193	<a href="#"><u>student functionalities</u></a>

## 2-Implementation:

[Index.php \(login form and register form\) .](#)

```
<?php  
session_start();  
  
>  
<!DOCTYPE HTML>
```

```
<html>

<head>
    <style>
        body {
            background-image: url('books5.jpg');
            background-repeat: no-repeat;
            background-size: cover;
        }

        .tableee {
            font-size: x-large;
            position: relative;
        }
    </style>
    <title>Signin OR signUp </title>
</head>

<body>

    <div class="one" style=" font-size: xx-large ;border-bottom: 2px groove red; text-align: center; padding: 20px;">
        <form action="login.php" method="POST" >
            <div style="display: inline-block; position: relative;padding-left: 700px;"> <label for="email"> Email :</label>

                <input type="text" name="email" id="email" style="width:15em ; " required placeholder="email">
            </div>
            <div style="display: inline-block; position: relative;"> <label for="password"> Password : </label> <input type="password" name="password" id="password" required placeholder="password">
        </div>
        <div style="display: inline-block; position: relative;"> <button type="submit" style=" font-size: x-large;"> Signin </button></div>

        <div style="font-size: large; color: blue ;padding-left:800px; " >    <?php if(isset($_SESSION['flag']))>
    </div>
</body>
```

```
echo"<br> invalid email or password ";

unset ($_SESSION['flag']) ; ?> </div>
</form>
</div>
<br>

<div style=" margin-left: 1000px; width: 400px; border: 1px solid red;
text-align: center;">
    <form name="contactForm" onsubmit="return validateForm()"
action="register.php" method="POST">
        <h2> Don't have an account ? fill out the following details to get
one </h2>
        <br> <br>
        <div class="tablee"> <label for="name">Name :</label> <input
class="tablee" type="text " id="name"
                name="name" placeholder="name" required> </div>
        <br>

        <div class="tablee"> <label for="password">Password : </label>
<input type="password" class="tablee"
                style="width: 257px;" type="text" id="password"
name="password" placeholder="Password" required>
        </div>
        <br>
        <div class="tablee" style=" display: inline-
block;"> <label for="admin"> <input type="radio"
                name="role" value="admin" id="admin"> Admin </label>
</div>

        <div class="tablee" style=" display: inline-
block;"> <label for="User"> <input type="radio"
                value="user" name="role" id="user"> User </label>
<br> </div>
        <br><br>
        <div id="as" style="font-size: large; color: blue;" > </div>
        <br>
        <div> <input class="tablee" type="submit" value="Register" >
</div>
    </form>
    <br>
```

```

<div style="font-size: large; color: green ;">
    <?php if (isset($_SESSION["userAdded"])){ echo "New record created
successfully you can login now ";unset($_SESSION["userAdded"]); }
    ?> </div>
    <div style="font-
size: large; color: red ;"> <?php if (isset($_SESSION["exist_email"])) {
echo"this email (". $_SESSION["exist_email"].")\n is already registered ";
unset($_SESSION["exist_email"]); } 
?> </div>
    </div>

<script>

function validateEmail(emailField){
    var reg = /^[A-Za-z0-9_\-\.\.]+@[A-Za-z0-9_\-\.\.]+\.(A-Za-z){2,4}$/;

    if (reg.test(emailField.value) == false)
    {
        alert('Invalid Email Address');
        return false;
    }

    return true;
}

// Defining a function to validate form
function validateForm() {
    // Retrieving the values of form elements
    var name = document.contactForm.name.value;
    var email = document.contactForm.email.value;
    var pass = document.contactForm.password.value;
    var radio_1= document.getElementById("admin").checked;
    var radio_2 = document.getElementById("user").checked;

    // Validate name

    var regex = /^[a-zA-Z\s]+$/;
    if(regex.test(name) == false) {

```

```
        document.getElementById("as").innerHTML ="invalid name "
        return false ;
    }

//validate password
if (pass.length<6){
    document.getElementById("as").innerHTML ="too short password";

    return false ;}

if (radio_1==false && radio_2==false ){
    document.getElementById("as").innerHTML = "are you an admin or user ? ";
    return false;
}

// Validate email address

// Regular expression for basic email validation
var regex = /^$+@\S+\.\S+$/;
if(regex.test(email) == false) {
    document.getElementById("as").innerHTML ="invalid email address";

    return false;
} else{//then it is in the email format

    return true ;
}

};

</script>

</body>

</html>
```

## register.php(to store the information of the new user)

```
<?php
session_start();
$username = $_POST["name"];
$password = $_POST["password"];
$email = $_POST["email"];
$role = $_POST["role"];
if ($role=="admin")
    $role=true;
else $role = false;

$servername = "localhost";
$user = "root";
$pass = "1234";

$connection = mysqli_connect($servername, $user, $pass, "test");
// Check connection
if (!$connection) {
    die("Connection failed: " . mysqli_connect_error());
}

// to check if the registered email alerady have an account or not .
$sql = "SELECT * FROM users WHERE email='$email'";

$res_e = mysqli_query($connection, $sql);

if (mysqli_num_rows($res_e) > 0) {

    $_SESSION["exist_email"]=$email;
    // to print that the email is exist .

    header('Location: index.php');
}

else {$sql = "INSERT INTO users ( username,email,role ,password )
```

```

VALUES ('$username','$email','$role','$password')";

if (mysqli_query($connection, $sql)) {
    $_SESSION["userAdded"]=true;
    // the session to print in the main page that the user is added .

} else {
    $_SESSION["userAdded"]=false;

}

header('Location: index.php');
}

```

**Login.php( validate the information of the user to redirect him to his main page if he is already registered)**

```

<?php
session_start();
$email=$_POST["email"];
$password=$_POST["password"];
$connection= mysqli_connect("localhost","root","1234","test");
// Check connection
if (!$connection) {
    die("Connection failed: " . mysqli_connect_error());
}

$id="SELECT id ,role,username From users
WHERE email='$email'and password='$password' ";
$result=mysqli_query($connection,$id);
$row = mysqli_fetch_assoc($result);

```

```

if ($row["id"]==0){
$_SESSION["flag"]=true;

header('Location: index.php');
exit;
}
else {
$_SESSION["name"]=$row["username"];
$_SESSION["role"]=$row["role"];
$_SESSION["email"]=$email;
$_SESSION["password"]=$password;
$_SESSION["id"]=$row["id"];

if ($_SESSION["role"]==true)
header('location: mainadmin.php');
else header('location: mainstudent.html');
}

?>

```

## mainadmin.php (contain the functionalities of the admin )

```

<?php
session_start();

?>
<!DOCTYPE html>
<html>

<head>
<style>
body {
background-image: url("admin.jpg");

color: #FFF;
text-align: center;
font-size: xx-large;
}

```

```
#maindev {
    width: 700px;
    text-align: center;
    display: block;
    color: #fff;
    border: 5px groove yellowgreen;
    margin: 0 auto;
    font-size: xx-large;
}

.bt {
    width: 80%;
    background-color: #4CAF50;
    color: #FFF;
    font-size: xx-large;
    font-weight: bold;
}

.smalldiv {
    margin: 20px 0;
}
</style>

<script>
    function showbooks() {

        var xmlhttp = new XMLHttpRequest();
        xmlhttp.onreadystatechange = function () {
            if (this.readyState == 4 && this.status == 200) {
                document.getElementById("printbooks").innerHTML =
this.responseText;
            }
        };
        xmlhttp.open("GET", "printbooks.php", true);
        xmlhttp.send();
    }
</script>

</head>

<body>
    <h2> Welcome would you want to :</h2>
```

```

<div id="maindev">
    <div class="smalldiv"> <button class="bt" onclick=
"document.location.href='update_admin_details.php'"> Update Your Details </button></div>
    <div class="smalldiv"><button class="bt" onclick=
"document.location.href='admin.php';"> Add a book </button>
    </div>
    <div class="smalldiv"><button class="bt" onclick=
"document.location.href='update_book_details.php';"> Update a book details</button></div>

    <div class="smalldiv"><button class="bt" onclick=
"showbooks()">Browsing books </button> </div>
    <div class="smalldiv"><button class="bt" onclick=
"document.location.href='sendmail.php';">send mail for late borrowers </button> </div>
    <div class="smalldiv"><button class="bt" onclick=
"document.location.href='print_specific.php';"> showing specific books </button>
</div>

    <div class="smalldiv" ><button style="background-
color: red; "class="bt" onclick="document.location.href='logout.php';"> Logout
</button></div>
    <br>
    <div style="color:red;"><?php if (isset($_SESSION["sendedmails"]) ) ){
if ($_SESSION["sendedmails"]==false) echo " no late borrowers ";
else echo"there is ".$_SESSION["sendedmails"]." late borrowers and alert email
sent ";
unset($_SESSION["sendedmails"]); } ?> </div>
    </div>
<br>
    <div id="printbooks"></div>

</body>

</html>

```

**admin.php**(contain the form of **adding book** in  
**admin** )

```
<?php
session_start();?>

<!DOCTYPE html>
<html>
<head>
<style>
    body{
        background-image :url("admin.jpg") ;
        /* background-repeat: no-repeat;
        background-size: cover;
        background-attachment: fixed; */
        color: #FFF;
        text-align: center;
    }
    .addbook{
        font-size: x-large;
        width: 500px;
        border: 3px groove yellow;
        margin: 0 auto ;
        text-align: center;display: block
    }
    input[type=text] {
        width: 100%;
        padding: 12px 20px;
        margin: 8px 0;
        display: inline-block;
        border: 1px solid #ccc;
        border-radius: 4px;
        box-sizing: border-box;
    }
    #bt{
        width: 100%;
        background-color: #4CAF50;
        margin: 8px 0;
        padding: 10px 5px;
        color: #FFF;
        font-size: xx-large;
    }
</style>
```

```
</head>

<body>

    <div style="margin: 0 auto; text-align: center; display: block;">
        <h2>Enter the book details then click <span style="color: #4CAF50;">ADD</span>
        to be added : </h2></div>
    <div class="addbook">
        <!-- the div that contain the form of adding book -->
        <form action="addbook.php" method="POST" style="display: inline-block; margin-left: auto; margin-right: auto; text-align: left;">
            <div><label for="bookid">bookID : </label> <input type="text" placeholder="BookID" name="bID" id="bID" /></div>
            <div> <label for="bname"> book Name : </label> <input type="text" id="bname" name="bname" placeholder="book name" /></div>
            <div> <label for="author"> author : </label> <input type="text" id="au" name="au" placeholder="author" /></div>
            <div> <label for="catagory"> catagory : </label> <input type="text" id="catagory" name="catagory" placeholder="book catagory" /></div>
            <div> <label for="pubyear"> publication year : </label> <input type="text" id="pubyear" name="pubyear" placeholder="publication year" /></div>
            <div> <input id="bt" type="submit" value="ADD" /></button></div>

        </form>
        <div style="font-size: xx-large; color: greenyellow;"> <?php if (isset($_SESSION["bookAdded"])) echo " a new book added successfully " ; unset($_SESSION["bookAdded"]); ?> </div>
        <div>
            <button onclick="document.location.href='mainadmin.php';" > Back</button>
        </div>
        <!-- the end of the div of adding book -->
    </div>

</body>

</html>
```

# Addbook.php(used to add the book in the database after submitting the form from admin.php)

```
<?php
session_start();
$bookName=$_POST[ "bname"];
$Bookid=$_POST[ "bID"];
$catagory=$_POST[ "catagory"];
$author=$_POST[ "au"];
$pubyear=$_POST[ "pubyear"];

$connection=mysqli_connect("localhost", "root", "1234", "test");
// Check connection
if (!$connection) {
    die("Connection failed: " . mysqli_connect_error());
}
$sql="INSERT INTO books (bookName,catagory,author,bookID,pub_year)
VALUES ('$bookName','$catagory','$author','$Bookid','$pubyear')
";
if (mysqli_query($connection, $sql)) {
    $_SESSION[ "bookAdded"]=true;
}

//echo "New record created successfully";
else {
    $_SESSION[ "bookAdded"]=false;

} header('Location: admin.php');
```

## update\_book\_details.php (to update book details)

```
<?php
session_start();

if (isset($_POST["submit"])){
    $change=$_POST["change"];
    $change_to=$_POST["changeto"];
    $bookID=$_POST["B_ID"];

    // Create connection
$conn = mysqli_connect("localhost", "root", "1234", "test");
// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

$sql = "SELECT * FROM books WHERE bookID='$bookID'";

$res_e = mysqli_query($conn, $sql);

if (mysqli_num_rows($res_e) > 0) {

    $sql = "UPDATE books SET ".$change."='".$change_to."' WHERE bookID='".$bookID."'";
;

if (mysqli_query($conn, $sql)) {

    $_SESSION["book_updated"]=true;
} else {
    echo "Error updating record: " . mysqli_error($conn);
}

mysqli_close($conn);
else {echo "no book with ID = ('.$bookID.')";}
}

?>
```

```
<!DOCTYPE html>
<html>
<head>

<style>
body{
    text-align: center;
    background-image: url('admin.jpg');
    background-repeat: no-repeat;
    background-size: cover;
}
#maindiv{
    font-size: xx-large;
    width: 500px;

    margin: 100px auto ;
    text-align: center;
    border:5px solid yellowgreen;
    color:#FFF;
}
</style>
</head>
<body>
    <div id="maindiv" >
        <label for="selctet"><?php echo $_SESSION["name"] ?>
            what do you want to change <span style="color :red;"> ?</span> </label>

            <form name="contactForm"    action="" method="POST" onsubmit=
            "return validateForm()">
                <input style="font-size :x-
large; width:100%" type="text" id="B_ID" name="B_ID" placeholder="Enter book ID
to be changed" >
                    <select style="font-size: x-large; " name="change" id="change" >
                        <option value="">Select :</option>
                        <option value="bookName">Name</option>
                        <option value="catagory">catagory</option>
                        <option value="author">author</option>
                        <option value="bookID">bookID</option>
                        <option value="pub_year">publication year</option>
                    </select>
                <div>
```

```
<input id="changeto" name="changeto" style="font-size :x-large; " type="text" placeholder="change to "> </div>
<input style="font-size :x-large; width:100%" type="submit" name="submit" value="change" >
<button style="font-size :x-large; width:100% ; " onclick="document.location.href='mainadmin.php';" > &#8617; Back</button>
</form>
<div id="error" style="color: red;" ><?php
if (isset($_SESSION["book_updated"] ) ){ echo "book updated successfully ";
unset($_SESSION["book_updated"] ); } ?> </div>
</div>

</body>
<script>

function validateForm() {
    // Retrieving the values of form elements
    var change_that = document.contactForm.change.value;
    var change_to = document.contactForm.changeto.value;

    //check if the inputs is empty .
    if(change_that=="" ||change_to==""){
        document.getElementById("error").innerHTML = "choose what to change and and its replacment ";
        return false;
    }
    else
        return true;
};

</script>
</html>
```

## Update\_admin\_details.php(update user details this page called by admin and student the difference in the back button )

```
<?php
session_start();
if (isset($_POST["submit"])){
    $change=$_POST["change"];
    $change_to=$_POST["changeto"];

    // Create connection
$conn = mysqli_connect("localhost", "root", "1234", "test");
// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

$sql = "UPDATE users SET ".$change."= '".$change_to."' WHERE id=".$_SESSION["id"]
;

if (mysqli_query($conn, $sql)) {
    $_SESSION["user_updated"]=true;
} else {
    echo "Error updating record: " . mysqli_error($conn);
}

mysqli_close($conn);
?>

<!DOCTYPE html>
<html>
<head>

<style>
    body{
```

```

        text-align: center;
        background-image: url('admin.jpg');
        background-repeat: no-repeat;
        background-size: cover;
    }
#maindiv{
    font-size: xx-large;
    width: 500px;
/* display: block; display: inline-block; display: inline-block; */
    margin: 100px auto ;
    text-align: center;
    border:5px solid yellowgreen;
    color:#FFF;
}
</style>
</head>
<body>
    <div id="maindiv" >
        <label for="selcet"><?php echo $_SESSION["name"] ?>
what do you want to change <span style="color :red;"> ?</span> </label>

        <form name="contactForm"    action="" method="POST" onsubmit="return validateForm()">
            <select style="font-size: x-large; " name="change" id="change" >
                <option value="">Select :</option>
                <option value="username">Name</option>
                <option value="password">password</option>
                <option value="email">email</option>
            </select>
            <div>
                <input id="changeto" name="changeto" style="font-size :x-large; " type="text" placeholder="change to "> </div>
                <input style="font-size :x-large; width:100%" type="submit" name="submit" value="change" >
                <button style="font-size :x-large; width:100% ;color:black;" onclick="document.location.href='mainadmin.php'"> &#8617; Back</button>
            </div>
        </form>
        <div id="error" style="color:red;" > <?php if (isset($_SESSION["user_updated"])) { echo "user updated successfully "; unset($_SESSION["user_updated"]); } ?> </div>
    </div>

</body>

```

```
<script>

function validateForm() {
    // Retrieving the values of form elements
    var change_that = document.contactForm.change.value;
    var change_to = document.contactForm.changeto.value;
    //document.getElementById("test").innerHTML = change_that+" "+change_to;

    if(change_that=="" || change_to==""){
        document.getElementById("error").innerHTML = "choose what to change and
and its replacement ";
        return false;
    }
    // Validate name
    if(change_that==="username"){
        var regex = /^[a-zA-Z\s]+$/;
        if(regex.test(change_to) == false) {

            document.getElementById("error").innerHTML ="invalid name ";
            return false ;
        }
        else return true;
    }
    //validate password
    if(change_that==="password"){
        if (change_to.length<6){
            document.getElementById("error").innerHTML ="too short password";

            return false ;
        }
        return true;}
    }

    // Validate email address
    if (change_that==="email"){
        // Regular expression for basic email validation
        var regex = /^[\w\.-]+@[^\w\.-]+\.\w+$/;
        if(regex.test(change_to) == false) {
            document.getElementById("error").innerHTML ="invalid email address";

            return false;
        } else{
    
```

```
        return true ;
    }
}
//document.getElementById("error").innerHTML ="invalid  ";
return false;

};

</script>
</html>
```

## printbooks.php (browsing books

-this page is called by admin and student -)

```
<!DOCTYPE html>
<html>
<head>
<style>
table {
    width: 100%;
    border-collapse: collapse;
}

table, td, th {
    border: 1px solid #4CAF50;
    padding: 5px;
}

th {text-align: left;}
</style>
</head>
<body>
```

```

<?php

$con = mysqli_connect('localhost','root','1234','test');
if (!$con) {
    die('Could not connect: ' . mysqli_error($con));
}

// mysqli_select_db($con,"ajax_demo");
$sql="SELECT * FROM books ";
$result = mysqli_query($con,$sql);

echo "<table>
<tr>
<th>bookname</th>
<th>catagory</th>
<th>author</th>
<th>publication Year</th>
<th>ID</th>
</tr>";
while($row = mysqli_fetch_array($result)) {
    echo "<tr>";
    echo "<td>" . $row['bookName'] . "</td>";
    echo "<td>" . $row['catagory'] . "</td>";
    echo "<td>" . $row['author'] . "</td>";
    echo "<td>" . $row['pub_year'] . "</td>";
    echo "<td>" . $row['bookID'] . "</td>";
    echo "</tr>";
}
echo "</table>";
mysqli_close($con);
?>
</body>
</html>

```

**print\_specific**(Showing a list of books that satisfy certain criteria)

```
<?php
```

```

session_start();

if (isset($_POST["submit"])){
    $condition=$_POST["condition"];
    $print=$_POST["print"];

    // Create connection
    $conn = mysqli_connect("localhost", "root", "1234", "test");
    // Check connection
    if (!$conn) {
        die("Connection failed: " . mysqli_connect_error());
    }

    $sql="SELECT * FROM books where $print='$condition'";
    $result = mysqli_query($conn,$sql);
    if (mysqli_num_rows($result) > 0) {
        echo "<table>
no books satisfies that condition</span>";

    }
}
?>
```

```
<!DOCTYPE html>
<html>
<head>

<style>
body{
    text-align: center;
    background-image: url('admin.jpg');
    background-repeat: no-repeat;
    background-size: cover;
}
#maindiv{
    font-size: xx-large;
    width: 500px;

    margin: 100px auto ;
    text-align: center;
    border:5px solid yellowgreen;
    color:#FFF;
}
table {
    width: 100%;
    border-collapse: collapse;
}

table, td, th {
    color:#fff;
    font-size: xx-large;

    border: 1px solid #4CAF50;
    padding: 5px;
}

th {text-align: left; font-weight:bold;}
</style>
</head>
<body>
    <div id="maindiv"  >
        <label for="selcet"> what do you want to print <span style="color :red;"> ?<
/span> </label>

        <form name="contactForm"    action="" method="POST" onsubmit="return
validateForm()">
```

```

        <select style="font-size: x-large; " name="print" id="print" >
        <option value="">Select :</option>
        <option value="bookName">Name</option>
        <option value="catagory">catagory</option>
        <option value="author">author</option>
        <option value="bookID">bookID</option>
        <option value="pub_year">publication year</option>
    </select>
    <br><br>
    <div>
        <input id="condition" name="condition" style="font-size :x-large; width:100% " type="text"
placeholder="enter the condition in a single word "> </div>
        <input style="font-size :x-large; width:100%" type="submit" name="submit" value="print" >
        <br>
        <button style="font-size :x-large; width:100% ; " onclick="document.location.href='mainadmin.php';" > &#8617;
        Back</button>
    </form>
    <div id="error" style="color: red;" ><?php if
        (isset($_SESSION["book_updated"]) ) )
    { echo "book updated successfully "; unset($_SESSION["book_updated"]); } ?> </d
iv>
</div>

</body>
<script>

function validateForm() {
    // Retrieving the values of form elements
    var change_that = document.contactForm.print.value;
    var change_to = document.contactForm.condition.value;
    //document.getElementById("test").innerHTML = change_that+" "+change_to;

    if(change_that=="" || change_to==""){
        document.getElementById("error").innerHTML = "choose what to print and
and its condition ";
        return false;
    }
    else
        return true;
};


```

```
</script>
</html>
```

## Sendmail.php(send mails for late borrowers )

```
<?php
session_start();
$servername = "localhost";
$user = "root";
$pass = "1234";

$connection = mysqli_connect($servername, $user, $pass, "test");
// Check connection
if (!$connection) {
    die("Connection failed: " . mysqli_connect_error());

}
$current_date=date("Y-m-d");
$sql="SELECT student_id ,book_id from borrowed where return_time<'$current_date'"
;
$late_id=mysqli_query($connection,$sql);
while ($row = mysqli_fetch_array($late_id)) {
    $id=$row["student_id"];
    $sql="SELECT email from users where id='$id'";
    $email=mysqli_query($connection,$sql);
    $sendemail = mysqli_fetch_assoc($email);
    // echo($sendemail["email"]."<br>");
    $message="you have to return the book with id =".$row["book_id"]."as its
borrowing period has ended";
    $subject="The Library System";
    mail($sendemail["email"],$subject,$message);

}

if (!mysqli_query($connection, $sql)) {
    echo "Error updating record: " . mysqli_error($conn);
```

```
    }
else if (mysqli_num_rows($late_id)==0){
$_SESSION["sendedmails"]=false;
}
else if (mysqli_num_rows($late_id)>0)
$_SESSION["sendedmails"]=mysqli_num_rows($late_id);

header('location: mainadmin.php');
```

---

## *student pages*

---

**mainstudent.html**(contain the functionalities of  
the student )

```
<!DOCTYPE html>
<html>

<head>
<style>
body {
    background-image: url("books.jpg");
    background-repeat: no-repeat;
background-size: cover;
background-attachment: fixed;
    color: #FFF;
    text-align: center;
    font-size: xx-large;
}

#maindev {
    width: 700px;
    text-align: center;
    display: block;
```

```

        color: #fff;
        border: 5px groove yellowgreen;
        margin: 0 auto;
        font-size: xx-large;
    }

    .bt {
        width: 80%;
        background-color: #4CAF50;
        color: #FFF;
        font-size: xx-large;
        font-weight: bold;
    }

    .smalldiv {
        margin: 20px 0;
    }
</style>

<script>
    function showbooks() {
        // if (str == "") {
        //     document.getElementById("txtHint").innerHTML = "";
        //     return;
        // } else {
        var xmlhttp = new XMLHttpRequest();
        xmlhttp.onreadystatechange = function () {
            if (this.readyState == 4 && this.status == 200) {
                document.getElementById("printbooks").innerHTML =
this.responseText;
            }
        };
        xmlhttp.open("GET", "printbooks.php", true);
        xmlhttp.send();
        // }
    }
</script>

</head>

<body>
    <h2> Welcome would you want to </h3>
        <div id="maindev">

```

```

        <div class="smalldiv"> <button class="bt" onclick=
    "document.location.href='update_student_details.php'"> Update your Details
</button></div>
        <div class="smalldiv"><button class="bt" onclick=
    "document.location.href='borrowBook.php'">Borrow a book </button>
        </div>
        <div class="smalldiv"><button class="bt" onclick=
    "document.location.href='returnBook.php'"> return a book </button></div>

        <div class="smalldiv"><button class="bt" onclick=
    "document.location.href='extend_borrowing_Period.php'">
    extending borrowing period </button></div>
        <div class="smalldiv"><button class="bt" onclick=
    "showbooks()">Browsing books </button> </div>
        <div class="smalldiv"><button class="bt" onclick=
    "document.location.href='printSpecific_student.php'">
    show books with specific creteria </button></div>
        <div class="smalldiv" style="background-
color: red;"><button class="bt" onclick="document.location.href='logout.php';"> Logout </button></div>

    </div>
<br>
    <div id="printbooks"></div>

</body>

</html>

```

## borrowBook.php()

```

<?php
session_start();
if (isset($_POST["submit"])){
$bookid=$_POST[ "b_id"];
$servername = "localhost";
$user = "root";
$pass = "1234";

$connection = mysqli_connect($servername, $user, $pass, "test");
// Check connection

```

```

if (!$connection) {
    die("Connection failed: " . mysqli_connect_error());
}

$sql = "SELECT * FROM books WHERE bookID='$bookid'";

$res_e = mysqli_query($connection, $sql);

if (mysqli_num_rows($res_e) > 0) {
    $date=strtotime("+5 Days");
    $date=date("Y-m-d", $date);
    $sql = "INSERT INTO borrowed (book_id,student_id,return_time)
VALUES('$bookid','{$_SESSION["id"]}', '$date')";
    if (mysqli_query($connection, $sql)){
        $_SESSION["borrowed"]=true;
        // echo "borrwed successeded";
    }
    else {
        echo "Error updating record: " . mysqli_error($connection)."
you alerady have that book";
    }
}

else $_SESSION["borrowed"]=false;

?>

<!DOCTYPE html>
<html>

<head>
    <style>
        body {
            background-image: url("student5.jpg");
            background-repeat: no-repeat;
            background-size: cover;
            background-attachment: fixed;

            text-align: center;
            font-size: x-large;
        }
    </style>
</head>
<body>
    <h1>Welcome to Library Management System</h1>
    <h2>Borrow Book</h2>
    <form action="" method="post">
        <label>Book ID:</label>
        <input type="text" name="bookid" value="101" />
        <br/>
        <label>Student ID:</label>
        <input type="text" name="studentid" value="101" />
        <br/>
        <input type="submit" value="Borrow Book" />
    </form>
</body>
</html>

```

```

#maindiv {
    text-align: center;
    border: 5px solid red;
    margin: 100px auto;
    width: 600px;
    display: block;
    padding: 10px;
}

input[type=text] {
width: 100%;
padding: 12px 20px;
margin: 8px 0;
display: inline-block;
border: 1px solid #ccc;
border-radius: 4px;
box-sizing: border-box;
}

</style>
</head>

<body>

<div id="maindiv">
    <h2> Enter the id of the book you want to borrow </h2>
    <form action="" method="POST" style="display: inline-block;">
        <input type="text" placeholder="Book ID" name="b_id" id="b_id">
        <input type="submit" value="Borrow" id="submit" name="submit" style="color: blue; width: 100%; font-size: x-large;">
    </form>
    <br><br>

    <button style="font-size :x-large; width:50% ;color:black;" onclick="document.location.href='mainstudent.html'"> &#8617; Back</button>
    <div id="result_div" style="color:red;font-weight: bold;"> <?php if (isset($_SESSION["borrowed"])){ if($_SESSION["borrowed"]==true) echo"borrowed successfully \n you have to return the book in 5 days or you will be late "; else echo"this book doesnot exist in the library .";unset($_SESSION["borrowed"]); } ?> </div>
</div>

```

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

## ReturnBook.php(deleting the book from the borrowedbooks table by the id of the student and the book )

```
<?php  
session_start();  
if (isset($_POST["submit"])){  
$bookid=$_POST["b_id"];  
  
$servername = "localhost";  
$user = "root";  
$pass = "1234";  
  
$connection = mysqli_connect($servername, $user, $pass, "test");  
// Check connection  
if (!$connection) {  
    die("Connection failed: " . mysqli_connect_error());  
}  
  
$sql = "SELECT * FROM borrowed WHERE book_id='$bookid' and student_id='{  
$_SESSION["id"]}' " ;  
  
$res_e = mysqli_query($connection, $sql);  
  
if (mysqli_num_rows($res_e) > 0) {  
  
    $sql = "DELETE FROM borrowed WHERE book_id='$bookid' and student_id='{  
$_SESSION["id"]}' " ;  
    if (mysqli_query($connection, $sql)){  
        $_SESSION["found"]=true;  
        // echo "borrowed successed";  
    }  
    else {
```

```
        echo "Error updating record: " . mysqli_error($connection);
    " you alerady have that book";
}

}

else $_SESSION["found"]=false;}

?>

<!DOCTYPE html>
<html>

<head>
<style>
body {
    background-image: url("student5.jpg");
    background-repeat: no-repeat;
    background-size: cover;
    background-attachment: fixed;

    text-align: center;
    font-size: x-large;
}

#maindiv {
    text-align: center;
    border: 5px solid red;
    margin: 100px auto;
    width: 600px;
    display: block;
    padding: 10px;

}
input[type=text] {
width: 100%;
padding: 12px 20px;
margin: 8px 0;
display: inline-block;
border: 1px solid #ccc;
border-radius: 4px;
box-sizing: border-box;
}

</style>
```

```

</head>

<body>

<div id="maindiv">
    <h2> Enter the id of the book you want to<span style="color: red;" >
    return </span> </h2>
    <form action="" method="POST" style="display: inline-block;">
        <input type="text" placeholder="Book ID" name="b_id" id="b_id">
        <input type="submit" value="return" id="submit" name="submit" style="
color: blue; width: 100%; font-size: x-large;">

    </form>
    <br><br>

    <button style="font-size :x-
large; width:50% ;color:black;" onclick="document.location.href='mainstudent.html
'" > &#8617; Back</button>
    <div id="result_div" style="color:red;font-
weight: bold;" > <?php if (isset($_SESSION["found"])){if ($_SESSION["found"]==
true) echo"book returned successfully ";
else echo"you did not take that book .";unset
($_SESSION["found"]); } ?> </div>
</div>

</body>

</html>

```

## extend\_borrowing\_period.php

```

<?php
session_start();
if (isset($_POST["submit"])){
$bookid=$_POST[ "b_id"];

$servername = "localhost";
$user = "root";
$pass = "1234";

$connection = mysqli_connect($servername, $user, $pass, "test");

```

```

// Check connection
if (!$connection) {
    die("Connection failed: " . mysqli_connect_error());
}

$sql = "SELECT * FROM borrowed
WHERE book_id='$bookid' and student_id='{$SESSION["id"]}';

$result = mysqli_query($connection, $sql);

if (mysqli_num_rows($result) > 0) {

    $sql = "SELECT return_time FROM borrowed
WHERE book_id='$bookid' and student_id='{$SESSION["id"]}';
$result=mysqli_query($connection,$sql);
$newdate = mysqli_fetch_assoc($result);
if (mysqli_query($connection, $sql)){
    $_SESSION["found"]=true;
    $newdate=$newdate["return_time"];
    $newdate=strtotime($newdate);
    $newdate=date("Y-m-d",$newdate);
    $newdate = date(strtotime($newdate . "+5 days"));
    $newdate=date("Y-m-d",$newdate);

    $sql = "UPDATE borrowed SET return_time ='". $newdate."'";
WHERE book_id='$bookid' and student_id='{$SESSION["id"]}';
$_SESSION["newdate"]=$newdate;
if (!mysqli_query($connection, $sql)){
    echo "error -- : ". mysqli_error($connection);

}
}
else {
    echo "Error updating record: " . mysqli_error($connection).
" you alerady have that book";
}

}
else $_SESSION["found"]=false;} 
```

```

?>
<!DOCTYPE html>
<html>

<head>
    <style>
        body {
            background-image: url("student5.jpg");
            background-repeat: no-repeat;
            background-size: cover;
            background-attachment: fixed;

            text-align: center;
            font-size: x-large;
        }

        #maindiv {
            text-align: center;
            border: 5px solid red;
            margin: 100px auto;
            width: 600px;
            display: block;
            padding: 10px;
        }

        input[type=text] {
            width: 100%;
            padding: 12px 20px;
            margin: 8px 0;
            display: inline-block;
            border: 1px solid #ccc;
            border-radius: 4px;
            box-sizing: border-box;
        }
    </style>
</head>

<body>

    <div id="maindiv">
        <h2> Enter the id of the book you want to <span style="color: red;" >
extend its period </span> </h2>
        <form action="" method="POST" style="display: inline-block;">
            <input type="text" placeholder="Book ID" name="b_id" id="b_id">

```

```

        <input type="submit" value="Extend" id="submit" name="submit" style="color: blue; width: 100%; font-size: x-large;">

    </form>
    <br><br>

    <button style="font-size :x-large; width:50% ;color:black;" onclick="document.location.href='mainstudent.html'" > &#8617; Back</button>
    <div id="result_div" style="color:red;font-weight: bold;" >
        <?php if (isset($_SESSION["found"])){if ($_SESSION["found"]==true) echo("now you have to return the book at <span style=\"color :blue;\"> ".$_SESSION["newdate"]."</span> <br> the period increased for 5 days");
        else echo"you did not take that book .";unset($_SESSION["found"]); } ?>
    </div>
</div>

</body>

</html>

```

## printSpecific\_student.php(showing books that have certain criteria )

```

<?php
session_start();

if (isset($_POST["submit"])){
    $condition=$_POST["condition"];
    $print=$_POST["print"];

    // Create connection
$conn = mysqli_connect("localhost", "root", "1234", "test");
// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

```

```

//echo $print." ".$condition;
$sql="SELECT * FROM books where $print='$condition'";
$result = mysqli_query($conn,$sql);
if (mysqli_num_rows($result) > 0) {
echo "<table>
<tr>
<th>bookname</th>
<th>catagory</th>
<th>author</th>
<th>publication Year</th>
<th>ID</th>
</tr>";
while($row = mysqli_fetch_array($result)) {
    echo "<tr>";
    echo "<td>" . $row['bookName'] . "</td>";
    echo "<td>" . $row['catagory'] . "</td>";
    echo "<td>" . $row['author'] . "</td>";
    echo "<td>" . $row['pub_year'] . "</td>";
    echo "<td>" . $row['bookID'] . "</td>";
    echo "</tr>";
}
echo "</table>";
mysqli_close($conn);
else
echo"<span style=\"color:#fff; font-size:xx-large; \">no books satisfies that condition</span>";

}

?>

<!DOCTYPE html>
<html>
<head>

<style>
body{
    text-align: center;
    background-image: url('student6.jpg');
    background-repeat: no-repeat;
    background-size: cover;
}

```

```

#maindiv{
    font-size: xx-large;
    width: 500px;

    margin: 100px auto ;
    text-align: center;
    border:5px solid yellowgreen;
    color:black;
}
table {
width: 100%;
border-collapse: collapse;
}

table, td, th {
    color:black;
    font-size: xx-large;

    border: 1px solid #4CAF50;
    padding: 5px;
}

th {text-align: left; font-weight:bold;}
</style>
</head>
<body>
    <div id="maindiv"  >
        <label for="selct"> what do you want to print <span style="color :red;"> ?</span> </label>

        <form name="contactForm"    action="" method="POST" onsubmit="return validateForm()">
            <select style="font-size: x-large; " name="print" id="print" >
                <option value="">Select :</option>
                <option value="bookName">Name</option>
                <option value="catagory">catagory</option>
                <option value="author">author</option>
                <option value="bookID">bookID</option>
                <option value="pub_year">publication year</option>
            </select>
            <br><br>
            <div>
                <input id="condition" name="condition" style="font-size :x-large; width:100% " type="text" placeholder="enter the condition in a single word "> </div>

```

```

        <input style="font-size :x-
large; width:100%" type="submit" name="submit" value="print" >
        <br>
        <button style="font-size :x-
large; width:100% ; " onclick="document.location.href='mainstudent.html';" >
            &#8617; Back</button>
        </form>
        <div id="error" style="color: red;" ><?php if (isset($_SESSION[
            "book_updated"] ) ){ echo "book updated successfully "; unset($_SESSION[
            "book_updated"]); } ?> </div>
        </div>

</body>
<script>

function validateForm() {
    // Retrieving the values of form elements
    var change_that = document.contactForm.print.value;
    var change_to = document.contactForm.condition.value;
    //document.getElementById("test").innerHTML = change_that+" "+change_to;

    if(change_that=="" || change_to==""){
        document.getElementById("error").innerHTML = "choose what to print and
and its condition ";
        return false;
    }
    else
        return true;
}

</script>
</html>

```

## Update\_student\_details.php

```

<?php
session_start();
if (isset($_POST["submit"])){
    $change=$_POST["change"];

```

```
$change_to=$_POST["changeto"];

// Create connection
$conn = mysqli_connect("localhost", "root", "1234", "test");
// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

$sql = "UPDATE users SET ".$change.= "'".$change_to."' WHERE id=".$_SESSION["id"]
;

if (mysqli_query($conn, $sql)) {
    $_SESSION["user_updated"]=true;
} else {
    echo "Error updating record: " . mysqli_error($conn);
}

mysqli_close($conn);
?>

<!DOCTYPE html>
<html>
<head>

<style>
body{
    text-align: center;
    background-image: url('student5.jpg');
        background-repeat: no-repeat;
        background-size: cover;
}
#maindiv{
    font-size: xx-large;
    width: 500px;
/* display: block; display: inline-block; display: inline-block; */
    margin: 100px auto ;
    text-align: center;
    border:5px solid yellowgreen;
/* color:#FFF; */
```

```

        }
</style>
</head>
<body>
    <div id="maindiv" >
        <label for="selcet"><?php echo $_SESSION["name"]?> what do you want to change
        <span style="color :red;"> ?</span> </label>

        <form name="contactForm"    action="" method="POST" onsubmit="return
validateForm()">
            <select style="font-size: x-large; " name="change" id="change" >
                <option value="">Select :</option>
                <option value="username">Name</option>
                <option value="password">password</option>
                <option value="email">email</option>
            </select>
            <div>
                <input id="changeto" name="changeto" style="font-size :x-
large; " type="text" placeholder="change to "> </div>
                <input style="font-size :x-
large; width:100%" type="submit" name="submit" value="change" >
                <button style="font-size :x-
large; width:100% ;color:black;" onclick="document.location.href='mainstudent.html
'" > &#8617; Back</button>
            </form>
            <div id="error" style="color:red;" > <?php if (isset($_SESSION[
user_updated]) ) { echo "user updated successfully "; unset($_SESSION
[ "user_updated" ] ); } ?> </div>
        </div>

    </body>
<script>

function validateForm() {
    // Retrieving the values of form elements
    var change_that = document.contactForm.change.value;
    var change_to = document.contactForm.changeto.value;
    //document.getElementById("test").innerHTML = change_that+" "+change_to;

    if(change_that=="" || change_to==""){
        document.getElementById("error").innerHTML = "choose what to change and a
nd its replacement ";
    }
}

```

```
        return false;
    }
// Validate name
if(change_that==="username"){
    var regex = /^[a-zA-Z\s]+$/;
    if(regex.test(change_to) == false) {

        document.getElementById("error").innerHTML ="invalid name ";
        return false ;
    }
    else return true;
}
//validate password
if(change_that==="password"){
    if (change_to.length<6){
        document.getElementById("error").innerHTML ="too short password";

        return false ;
    }
    return true;}}

// Validate email address
if (change_that=="email"){
    // Regular expression for basic email validation
    var regex = ^\S+@\S+\.\S+$/;
    if(regex.test(change_to) == false) {
        document.getElementById("error").innerHTML ="invalid email address";

        return false;
    } else{
        return true ;
    }
}
//document.getElementById("error").innerHTML ="invalid ";
return false;

};

</script>
</html>
```

## Logout.php

```
<?php  
//logout  
session_start();  
session_destroy();  
header('Location: index.php'); ?>
```

# 3-Project OutPut :

## Signin&signup:

The screenshot shows a web browser window with a sign-in and sign-up form. The background of the form features a blurred image of several stacked books. The browser's address bar shows the URL `localhost/test/index.php`. The page contains fields for Email and Password, and a "Signin" button. To the right, there is a box containing text and input fields for creating a new account. The Windows taskbar at the bottom includes icons for File Explorer, Task View, Edge, Google Chrome, File Explorer (with 18 items), File Explorer (with 4 items), and File Explorer (with 2 items). The system tray shows the date and time as 7:28 AM on 5/25/2020.

Email :  Password :  Signin

Don't have an account ? fill out the following details to get one

Name :

Password :

Email :

Admin  User

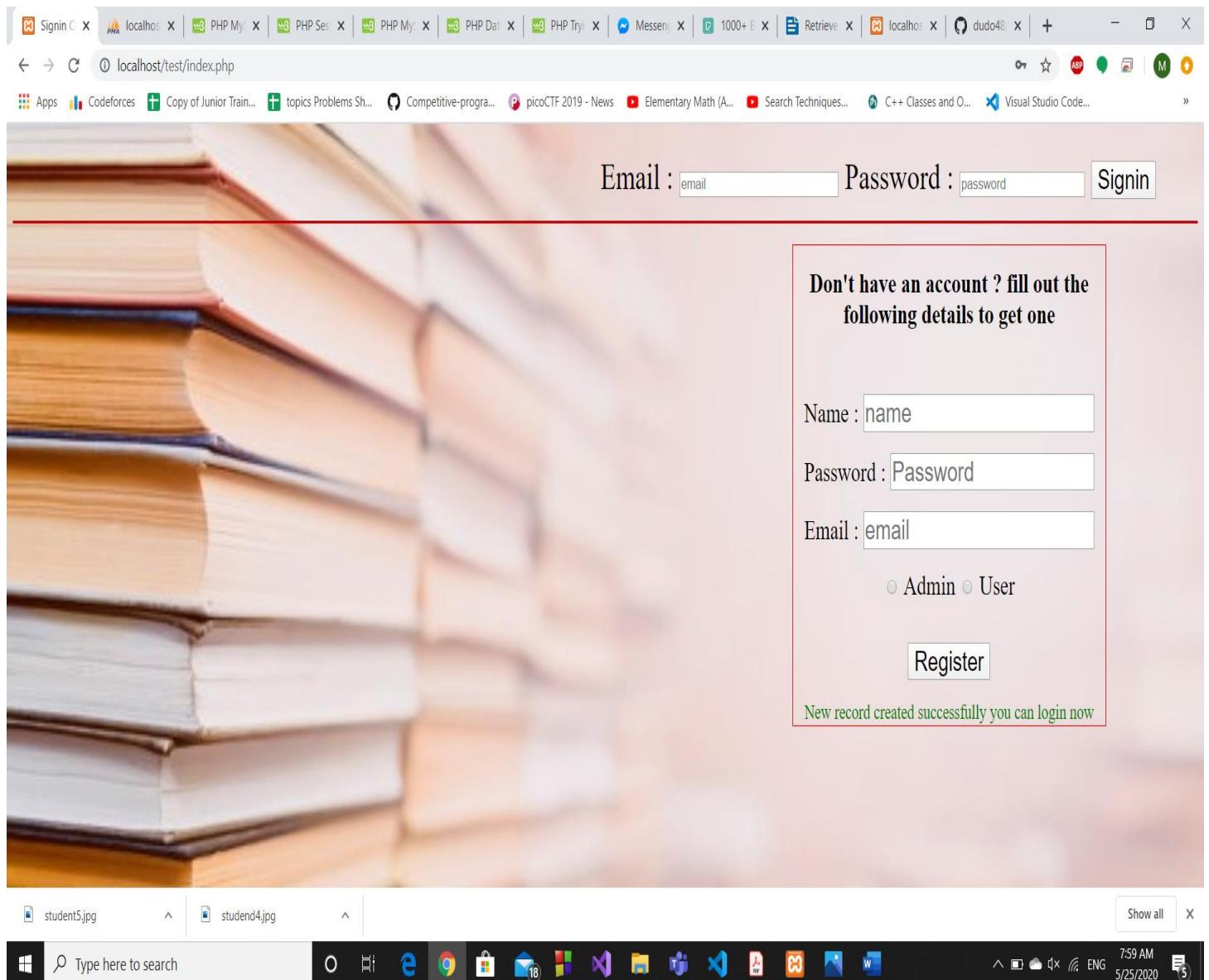
Register

student5.jpg student4.jpg Show all

Type here to search

7:28 AM 5/25/2020

after registering :



# Admin Pages (screen shoots):

## Main\_admin

The screenshot shows a web browser window with a dark theme. The address bar displays "localhost/test/mainadmin.php". Below the address bar, there is a horizontal navigation bar with various links: Apps, Codeforces, Copy of Junior Train..., topics Problems Sh..., Competitive-programming, picoCTF 2019 - News, Elementary Math (A...), Search Techniques..., C++ Classes and O..., and Visual Studio Code... .

The main content area has a dark background with white text. It features a large, bold, white title: "Welcome would you want to :". Below this title is a vertical list of seven items, each enclosed in a green rectangular button:

- Update Your Details
- Add a book
- Update a book details
- Browsing books
- send mail for late borrowers
- showing specific books
- Logout

At the bottom of the screen, the Windows taskbar is visible, showing icons for File Explorer, Edge, Google Chrome, Microsoft Store, Mail, File Explorer, Task View, File Explorer, and File Explorer. The system tray shows the date and time as "7:28 AM 5/25/2020".

## Add\_book:

localhost X PMA localhost X PHP My... X PHP Ses... X PHP My... X PHP Dat... X PHP Tryi... X Messenger X 1000+ E X Retrieve X localhost X dudo48 X + - □ X

localhost/test/admin.php

Apps Codeforces Copy of Junior Train... topics Problems Sh... Competitive-program... picoCTF 2019 - News Elementary Math (A... Search Techniques... C++ Classes and O... Visual Studio Code... »

Enter the book details then click **ADD** to be added :

bookID :

book Name :

author :

catagory :

publication year :

**ADD**

↔ Back

student5.jpg ^ studend4.jpg ^ Show all X

Type here to search

localhost X localhost X PHP My... X PHP Ses... X PHP My... X PHP Dat... X PHP Tryi... X Messenger X 1000+ E X Retrieve X localhost X dudo48 X + - □ X

localhost/test/admin.php

Apps Codeforces Copy of Junior Train... topics Problems Sh... Competitive-program... picoCTF 2019 - News Elementary Math (A... Search Techniques... C++ Classes and O... Visual Studio Code... »

Enter the book details then click **ADD** to be added :

bookID :

book Name :

author :

catagory :

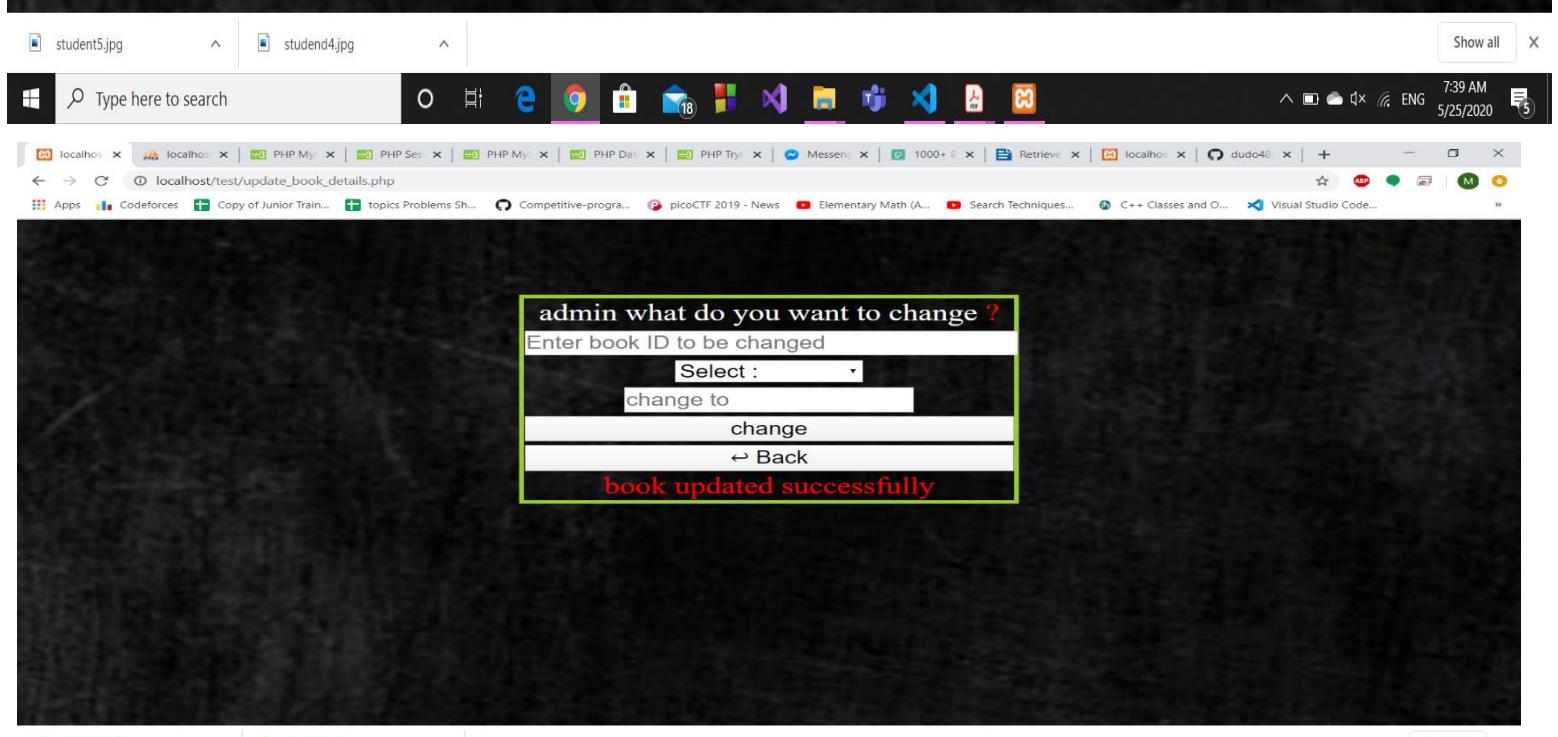
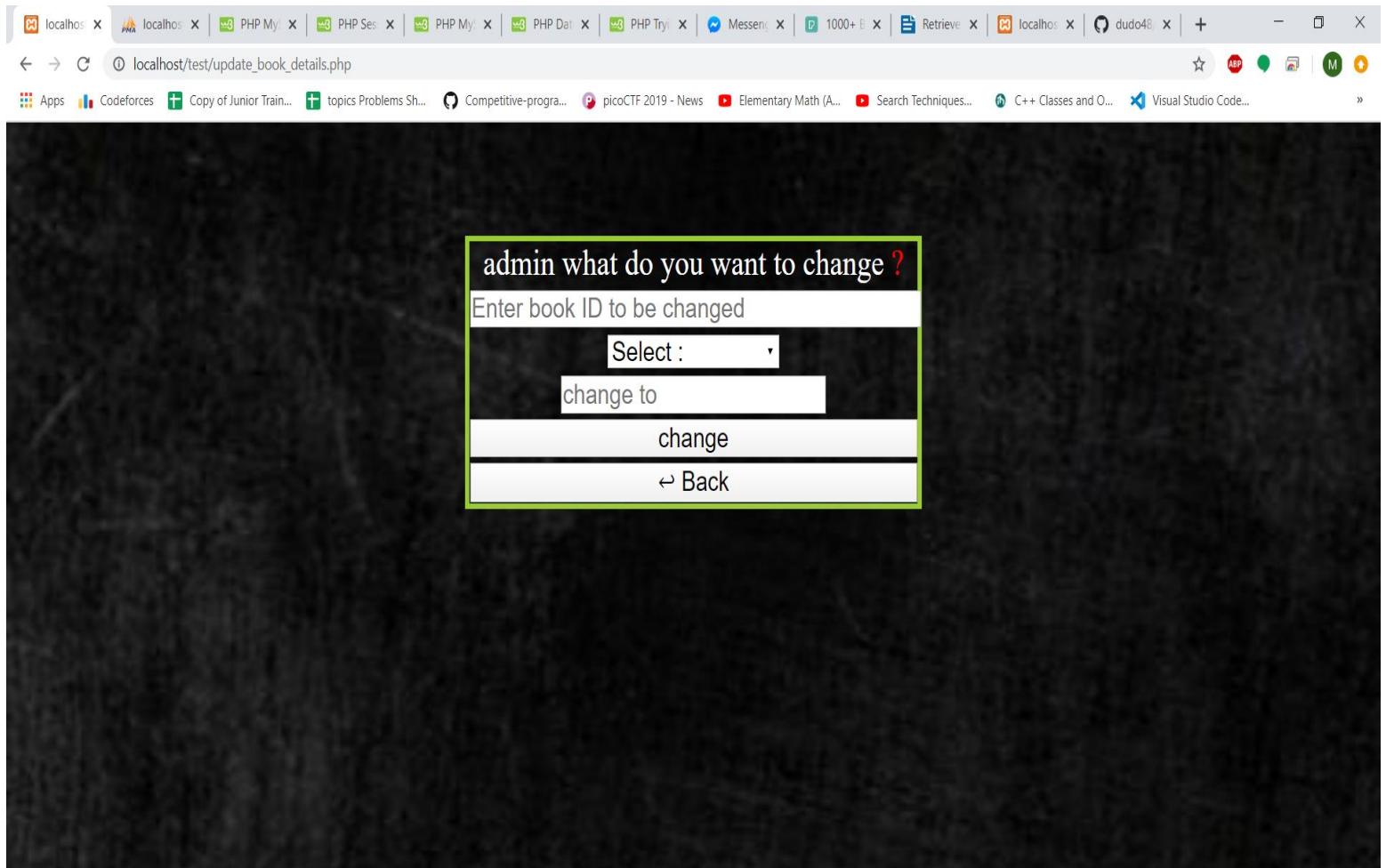
publication year :

**ADD**

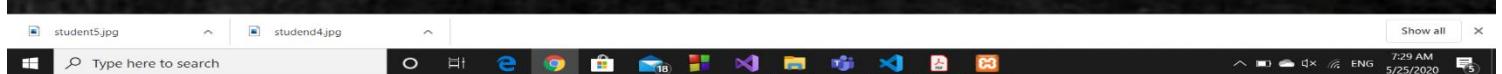
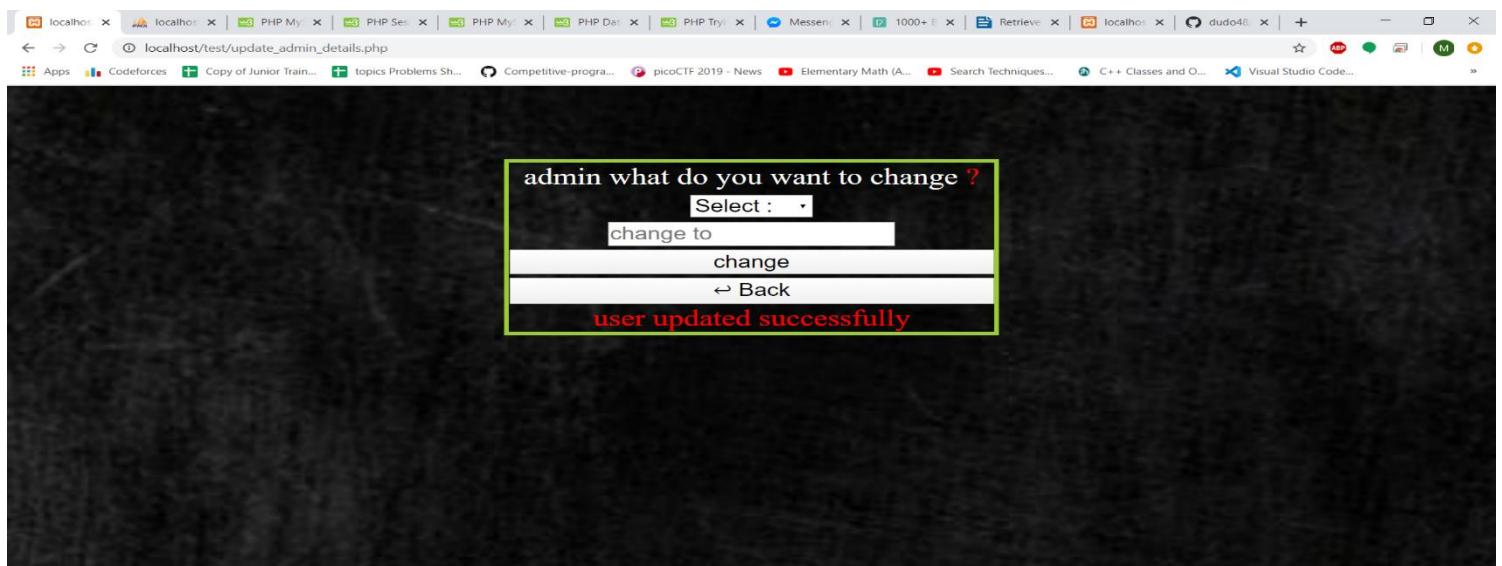
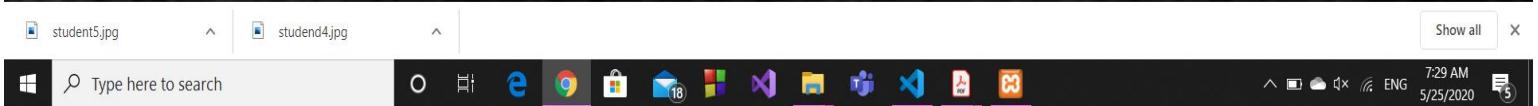
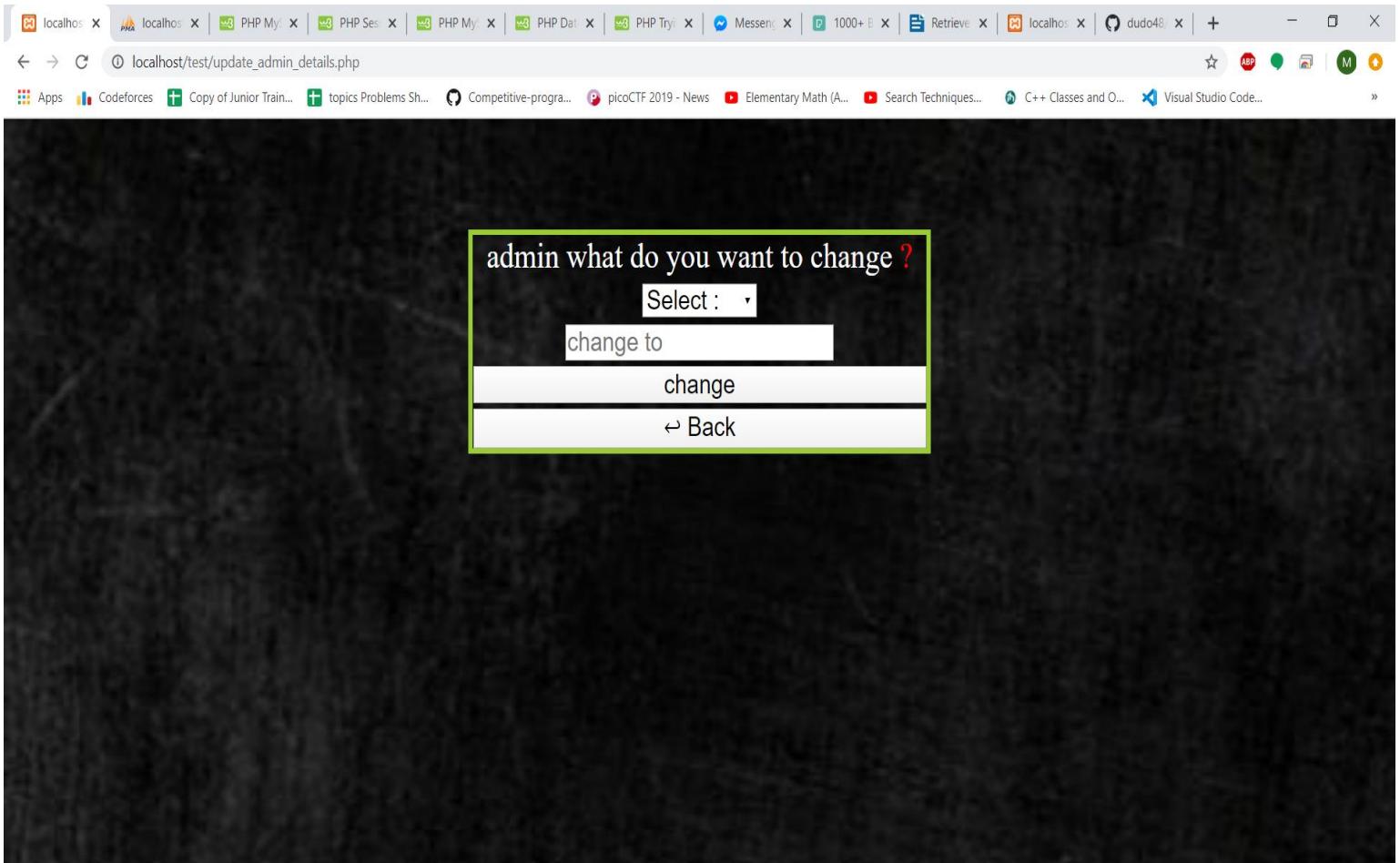
a new book added successfully

↔ Back

## Update book details:



# change admin details



## after browsing books:

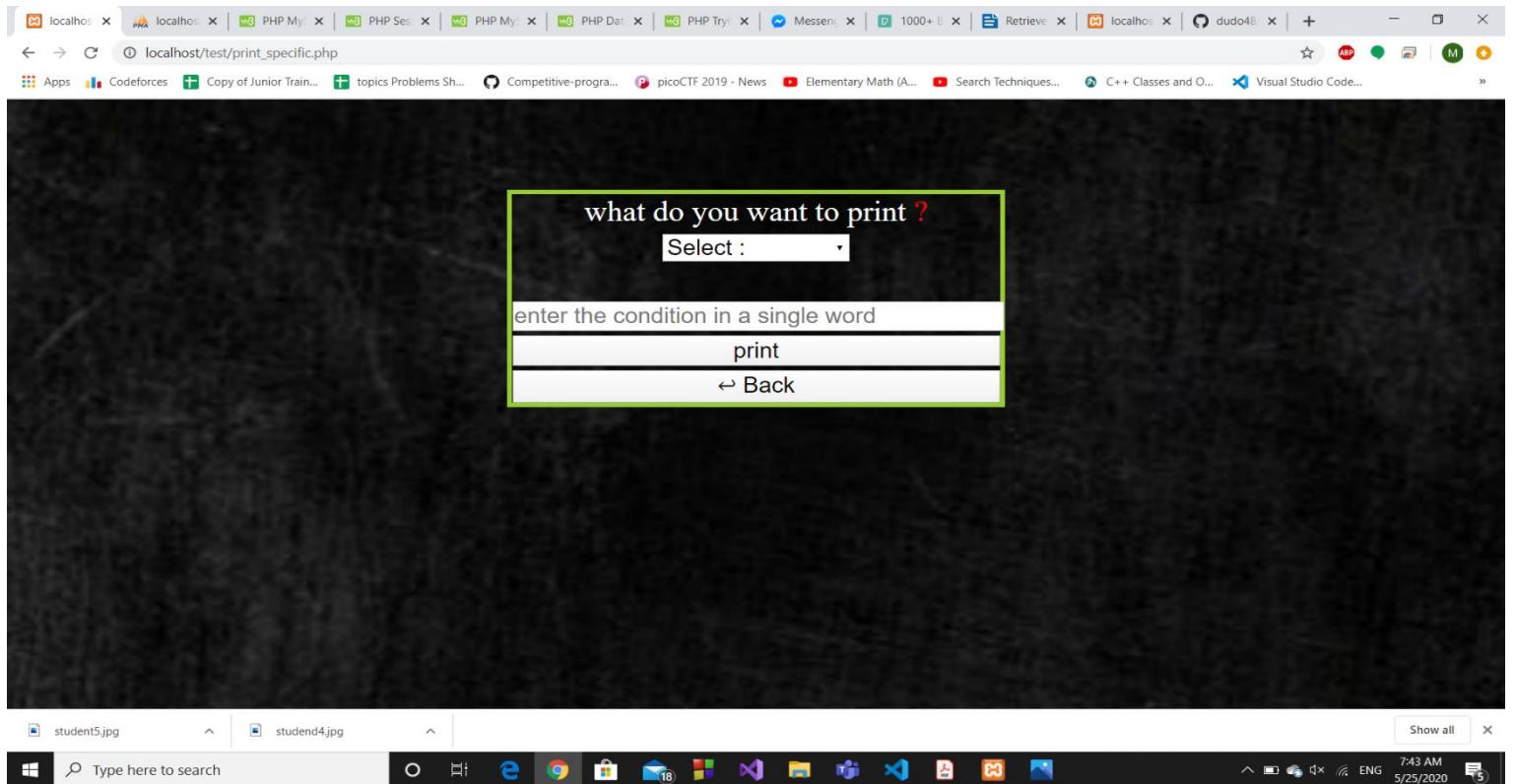
A screenshot of a web browser window titled "localhost/test/mainadmin.php". The page displays a table of books with columns: bookname, catagory, author, publication Year, and ID. Below the table is a navigation menu with green and red buttons: "send mail for late borrowers", "showing specific books", and "Logout". The taskbar at the bottom shows icons for student5.jpg and studend4.jpg.

bookname	catagory	author	publication Year	ID
Introduction to computerScience	ComputerScience	ElRamly	2019	cs251
Data Base	ComputerScience	ElDoctor	2018	db250
history of egypt	historic	taha hussin	2013	hist2002
Mangment	Eccnomic	Dr/Dina	1989	MANG12
math&algorithms	mathmatics	frenchman	2016	math250
math3	ryada	dr/omaer	2014	math356
newname	newcatagory	Mahmoud	202	noid00

## after clicking send mails for late borrowers :

A screenshot of a web browser window titled "localhost/test/mainadmin.php". The page displays a navigation menu with green and red buttons: "Update Your Details", "Add a book", "Update a book details", "Browsing books", "send mail for late borrowers", "showing specific books", and "Logout". A red message box at the bottom states "there is 2 late borrowers and alert email sent". The taskbar at the bottom shows icons for student5.jpg and studend4.jpg.

## show books with specific criteria :



after clicking print :

bookname	catagory	author	publication Year	ID
Introduction to computerScience	ComputerScience	ElRamly	2019	cs251
Data Base	ComputerScience	ElDoctor	2018	db250

A screenshot of a web browser window, identical to the one above but with the "print" button clicked. The page content remains the same, asking "what do you want to print ?" with a dropdown menu and a "print" button. The browser's taskbar and system tray are also identical, showing "student5.jpg" and "studend4.jpg" and the date and time as 5/25/2020 7:43 AM.

# Student pages

Student main page :

Welcome would you want to

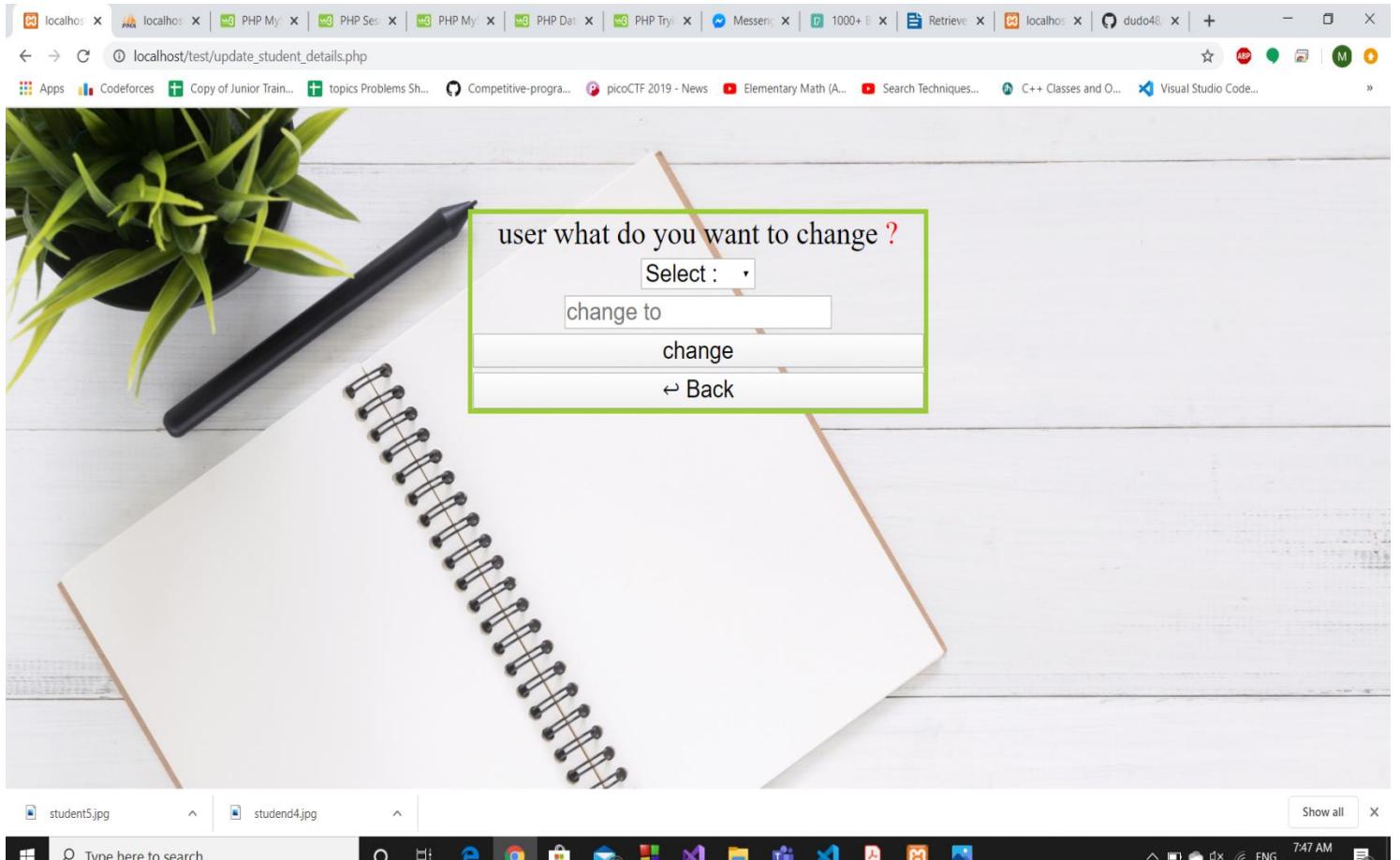
- Update your Details
- Borrow a book
- return a book
- extending borrowing period
- Browsing books
- Logout

student5.jpg    studend4.jpg    Show all

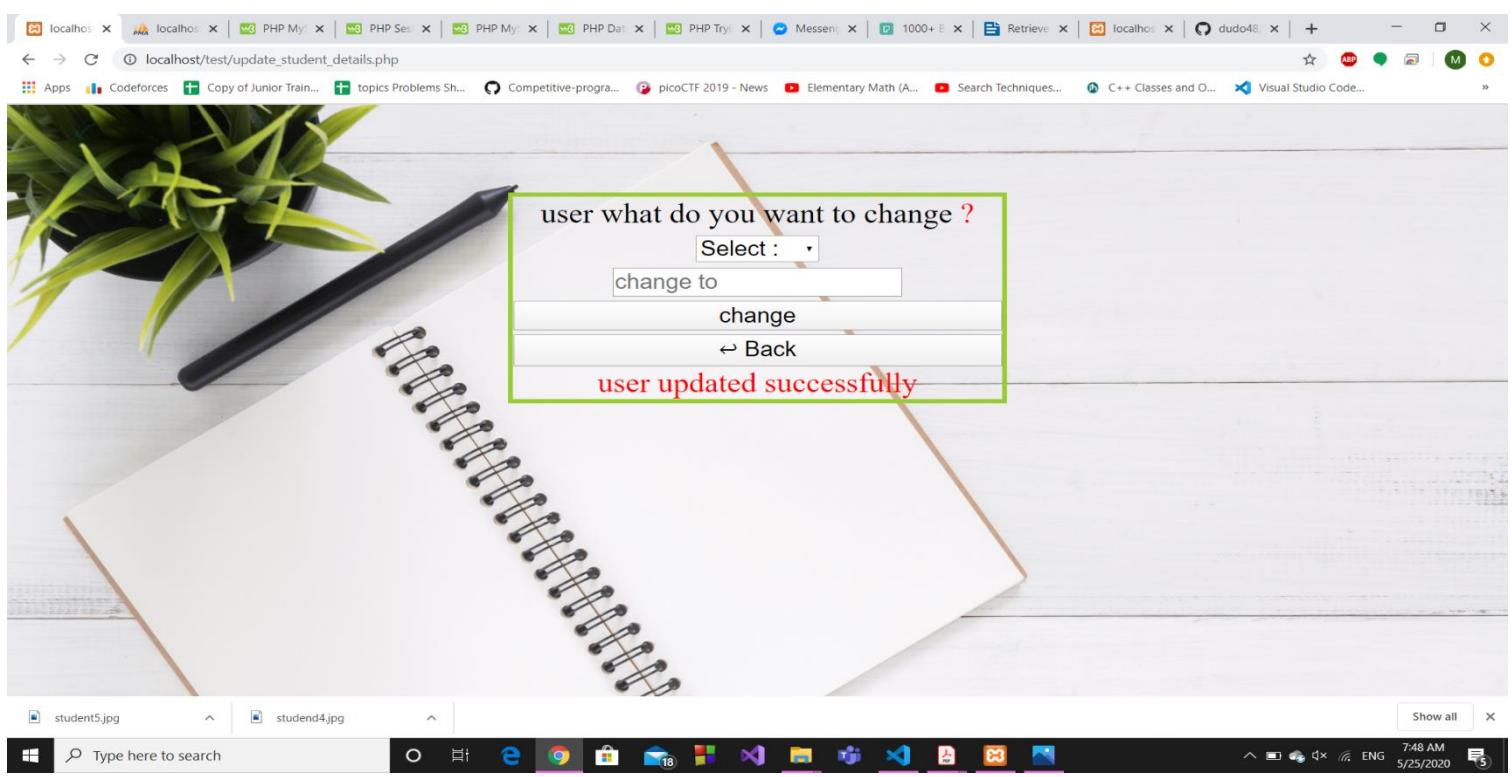
Type here to search

7:46 AM 5/25/2020

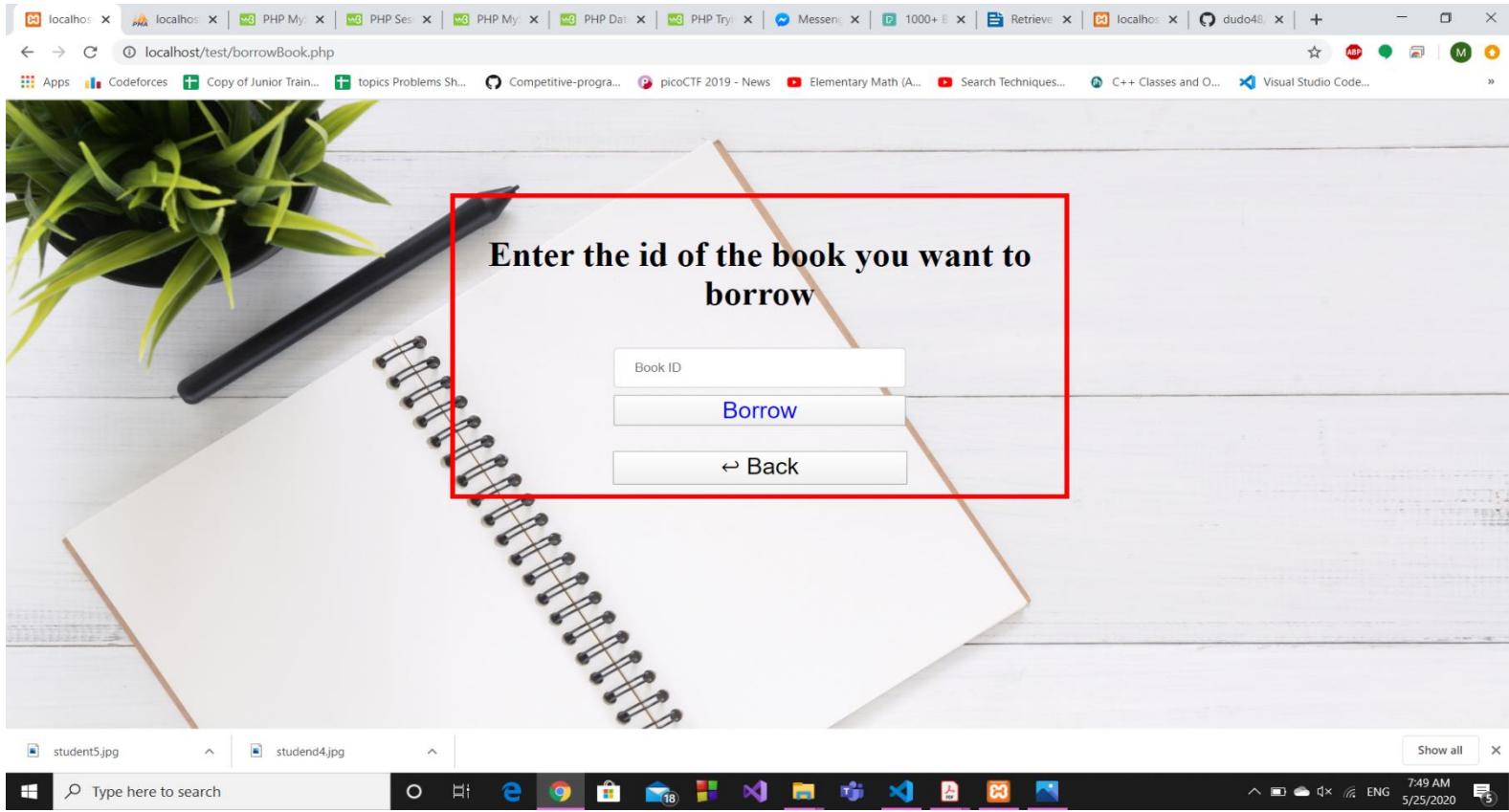
## Change student details:



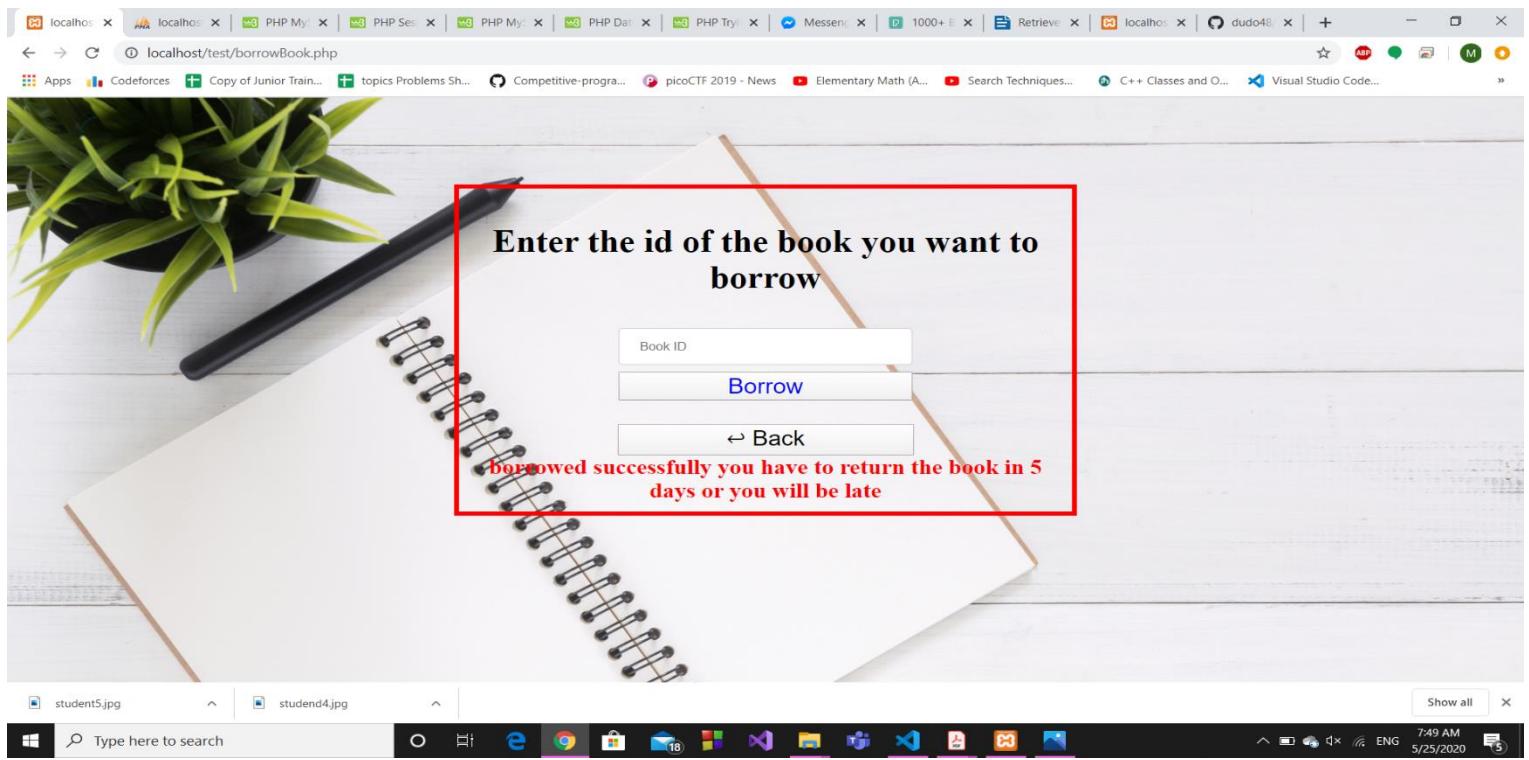
## After changing user details:



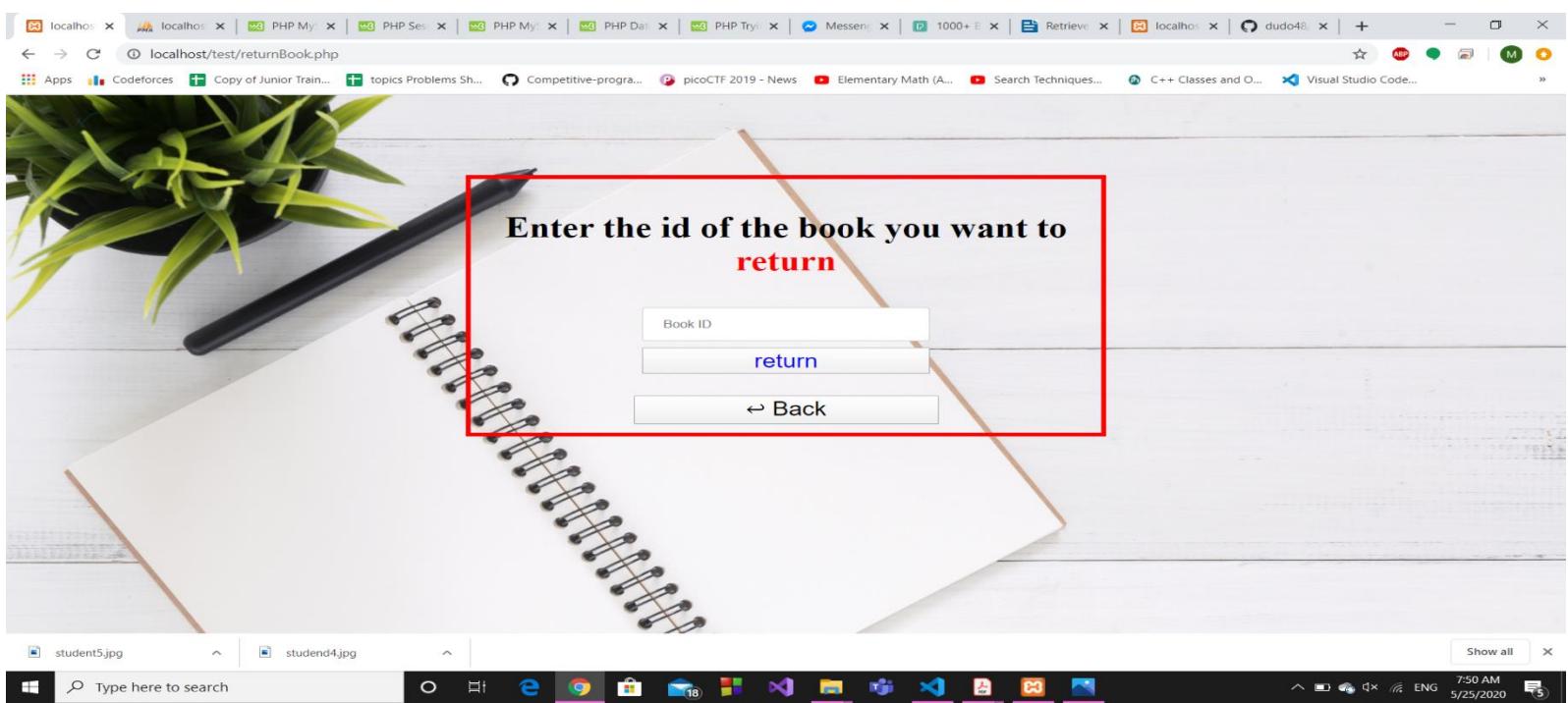
## Borrowing book :



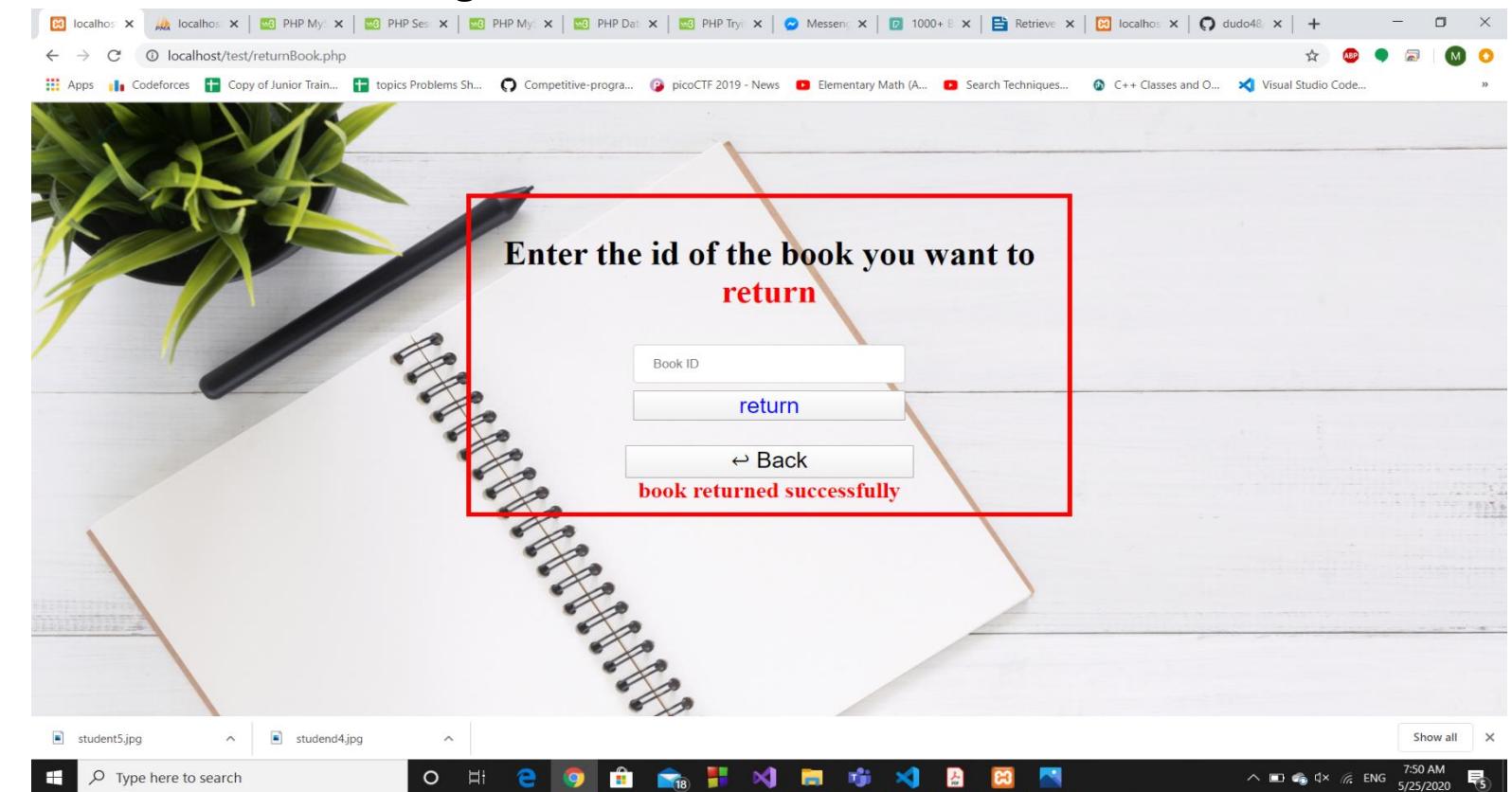
## After borrowing the book :



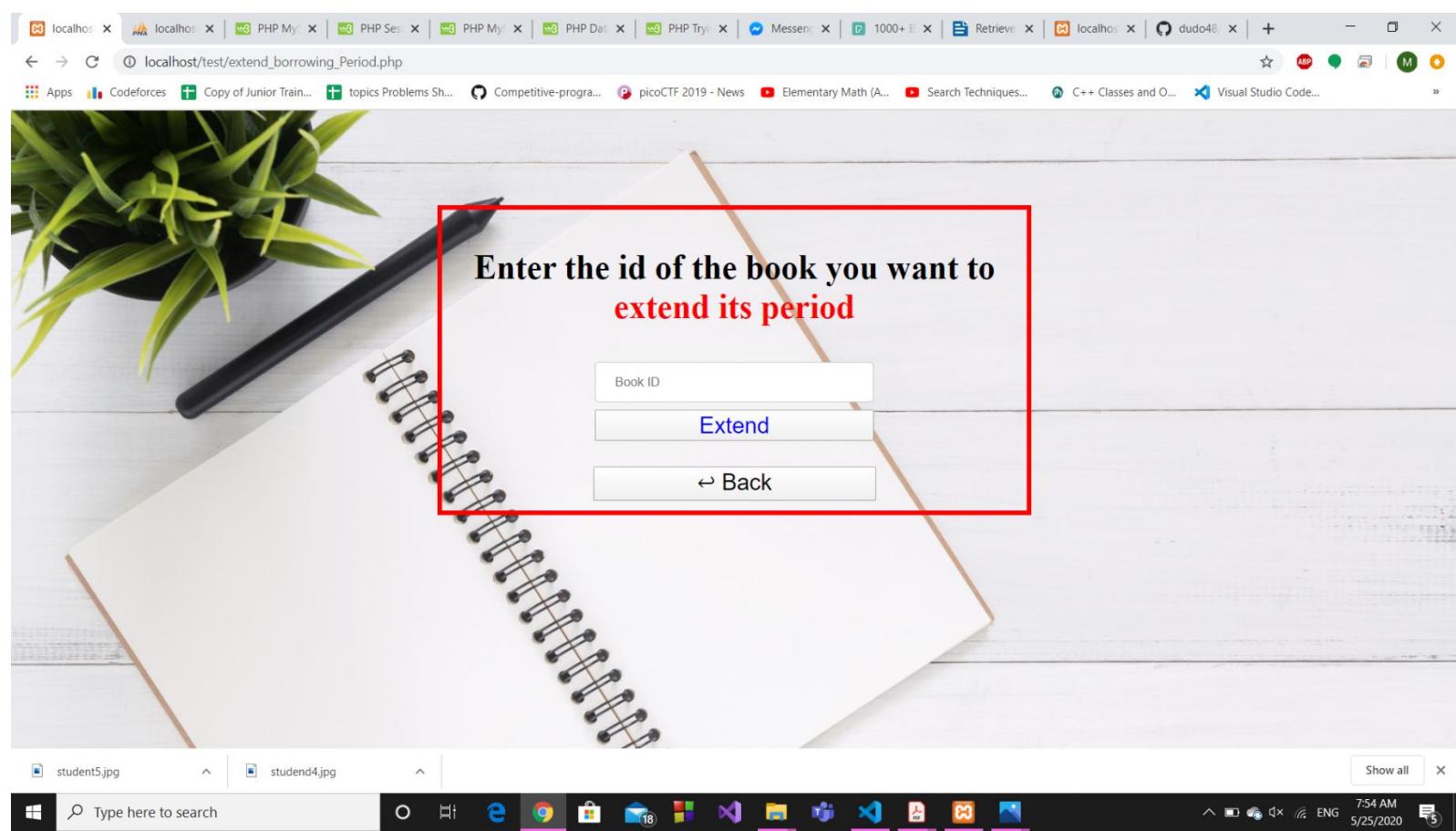
## Return a book:



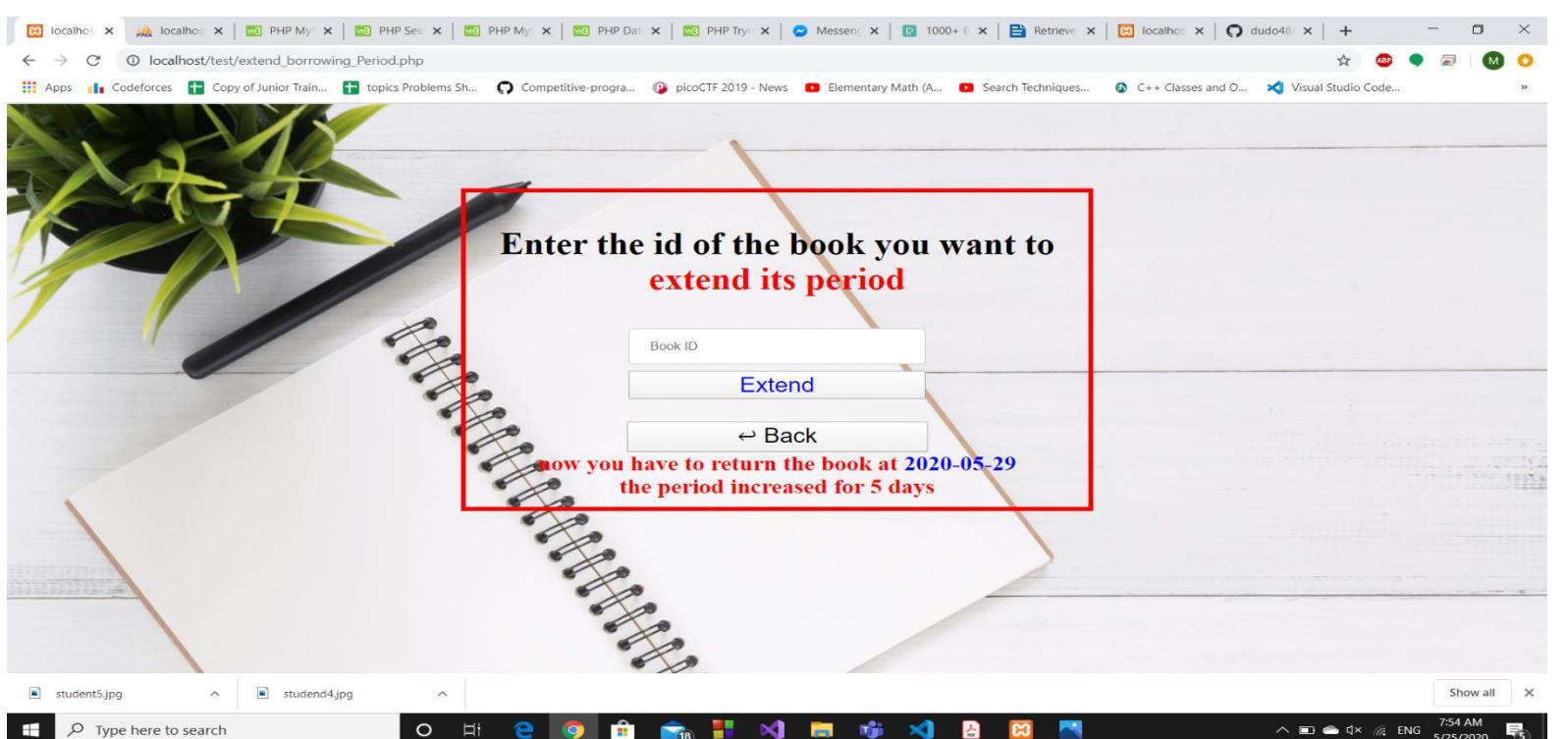
## After returning the book:



## Extend a borrowing period of a book:



## After extending period:



## Browsing books :

localhost/test/mainstudent.html

return a book

extending borrowing period

Browsing books

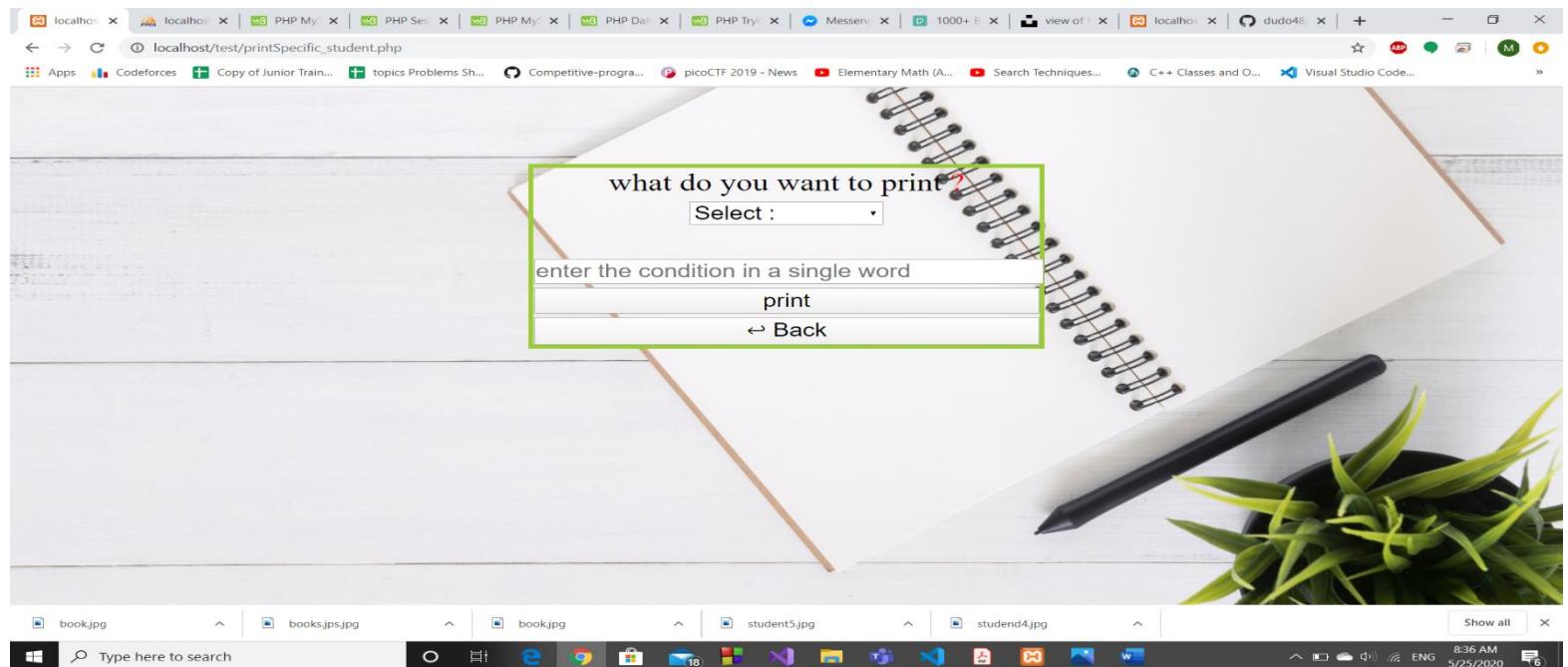
Logout

bookname	catagory	author	publication Year	ID
Introduction to computerScience	ComputerScience	ElRamly	2019	cs251
Data Base	ComputerScience	ElDoctor	2018	db250
history of egypt	historic	taha hussin	2013	hist2002
Mangment	Eccnomic	Dr/Dina	1989	MANG12
math&algorithms	mathematics	frenchman	2016	math250
math3	ryada	dr/omaer	2014	math356
newname	newcatagory	Mahmoud	202	noid00

book.jpg books.jpgs.jpg book.jpg student5.jpg student4.jpg

Type here to search 8:17 AM ENG 5/25/2020

## print books with certain criteria:



after printing :[category:historic ]

bookname	catagory	author	publication Year	ID
history of egypt	historic	taha hussin	2013	hist2002

A screenshot of a Windows desktop with a web browser open. The browser window displays a form with a green border, identical to the one in the previous screenshot. The form has a title "what do you want to print?", a dropdown menu labeled "Select :", and a text input field containing the word "print". At the bottom of the form are two buttons: "print" and "Back". The background of the browser window shows a photograph of a spiral-bound notebook and a pen.

