

A dark blue vertical bar runs down the left side of the page. A blue arrow points to the right from the bar, containing the date.

5/28/2022

# ISIT307 - Web Server Programming

Assignment Report

Several thin, curved lines in shades of blue and grey originate from the bottom left corner and sweep upwards and to the right, creating a dynamic, abstract design element.

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## 1. Used Information:

### Borrower Information:

- **User ID:** Sh738
- **Name:** Shoyeb Ahmmed
- **Surname:** Ahmmed
- **Phone:** 11 1111 1111
- **Email:** [ahmmad.ef22@gmail.com](mailto:ahmmad.ef22@gmail.com)
- **Password:** 1111111111

### Librarian Information:

- **User ID:** Jh150
- **Name:** Jhon
- **Surname:** Smith
- **Phone:** 22 2222 2222
- **Email:** [ahmmad.ef22@gmail.com](mailto:ahmmad.ef22@gmail.com)
- **Password:** 6666666666

## 2. Details of the File:

### 1. Librarian\_login\_header.html:

This page contains some html code to display the header of the Log in page for Librarian. It has only one button to switch to Log in as Borrower.



Borrower

### 2. Student\_login\_header.html:

This page contains some html code to display the header of the Log in page for Borrower. It has only one button to switch to Log in as Librarian.



Librarian

### 3. Header\_with\_link\_(Librarian).html:

This page contains some html code to display the header with some links to connect with other pages. And this header will only appear if the users logged in as a Librarian.



Home

Change Status

Add Book

Search Options

Log Out

### 4. Header\_with\_link\_(Borrower).html:

This page contains some html code to display the header with some links to connect with other pages. And this header will only appear if the users logged in as a Borrower.



Home

Borrow Book

Extend Borrowing

Search Options

Log Out

## 5. Database Connection.php:

This page will not display anything except make the connection with the database. And this page will call by other page to use the connection.

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$db = "Assignment";

try {
    $conn = mysqli_connect($servername, $username, $password, $db);
}
catch (mysqli_sql_exception $e) {
    die("Connection failed:" . mysqli_connect_errno() . "=" . mysqli_connect_error());
}
?>
```

## 6. Database Function.php:

It contains almost every function that use database connection and needs some information from database. It has function to store data into the database table,

```
function insert_into_librarian_table($tablename, $value1, $value2, $value3, $value4, $value5) {
    include "Database Connection.php";

    $sql = "INSERT INTO $tablename (ID, Name, Surname, Phone, Email)
    VALUES ('$value1', '$value2', '$value3', '$value4', '$value5')";

    $conn->query($sql);
}
```

function to retrieve data, make class object, store into array and return as array.

```
function select_from_librarian_table($tablename) {
    include "Database Connection.php";
    include "Librarian.php";

    $librarian_list = array();

    $sql = "SELECT * FROM $tablename";
    $qRes = mysqli_query($conn, $sql);
    while (($Row = mysqli_fetch_assoc($qRes)) != FALSE) {
        $lib_id = $Row['ID'];
        $lib_name = $Row['Name'];
        $lib_surname = $Row['Surname'];
        $lib_phone = $Row['Phone'];
        $lib_email = $Row['Email'];

        $libraian = new Libraian($lib_id, $lib_name, $lib_surname, $lib_phone, $lib_email);
        $librarian_list[] = $libraian;
    }

    return $librarian_list;
}
```

It also has some functions that will return data for some specific condition.

```
function check_login_pass($bid, $bpass) {  
    include "Database Connection.php";  
    include "Login.php";  
  
    $tablename = "login";  
  
    $sql = "SELECT * FROM $tablename";  
    $qRes = mysqli_query($conn, $sql);  
    while (($Row = mysqli_fetch_assoc($qRes)) != FALSE) {  
        $id = $Row['ID'];  
        $password = $Row['Password'];  
  
        $pass = md5($bpass);  
  
        if ($id == $bid && $password == $pass) {  
            return true;  
        }  
    }  
  
    return false;  
}
```

For example “display\_available\_books()” –

This will retrieve data using “select\_from\_book\_table()” function and will store in variable. By going over all data it will check if the book status is “Available” or not. If it satisfies the condition than it will display all the necessary information about the book.

#### 7. **Book.php:**

This is a class page and will not display anything. It has class constructor and some getter and setter function to access the class data. This class is for to store book details into array from database.

#### 8. **Borrower.php:**

This is a class page and will not display anything. It has class constructor and some getter and setter function to access the class data. This class is for to store borrower details into array from database.

#### 9. **Librarian.php:**

This is a class page and will not display anything. It has class constructor and some getter and setter function to access the class data. This class is for to store Librarian details into array from database.

#### 10. **Login.php:**


This is a class page and will not display anything. It has class constructor and some getter and setter function to access the class data. This class is for to store login details into array from database.

#### 11. **Borrowed.php:**

This is a class page and will not display anything. It has class constructor and some getter and setter function to access the class data. This class is for to store borrowed book details into array from database.

### 12. Page 1\_(Log in\_Student).php:

This page will use the Borrower header and will ask user to enter ID and password. And will check if the user ID and password is correct or not. If it is correct will redirect to “Page 6\_(Borrower\_Home).php” else will show some error. And from this page user can switch their role and also create account.



Librarian

---

Borrower Log In...

Borrower ID


Password

Submit

Don't have account? [Create Account](#)

### 13. Page 2\_(Registering\_Student).php:

Borrower can register their information by clicking on “Create Account” link. That will redirect it to this page. By entering every information and submitting them they will finish their registration and able to login from the Page 1.



Librarian

---

Borrower Details...

Name

Surname

Phone

Email


Password

Submit



#### 14. Page 3\_(Log in\_Librarian).php:

This page will use the Librarian header and will ask user to enter ID and password. And will check if the user ID and password is correct or not. If it is correct will redirect to “Page 5\_(Librarian\_Home).php” else will show some error. And from this page user can switch their role and also create account.



Borrower

---


Librarian Log In...

Submit

Don't have account? [Create Account](#)

#### 15. Page 4\_(Registering\_Librarian).php:

Librarian can register their information by clicking on “Create Account” link. That will redirect it to this page. By entering every information and submitting them they will finish their registration and able to login from the Page 3.



Librarian

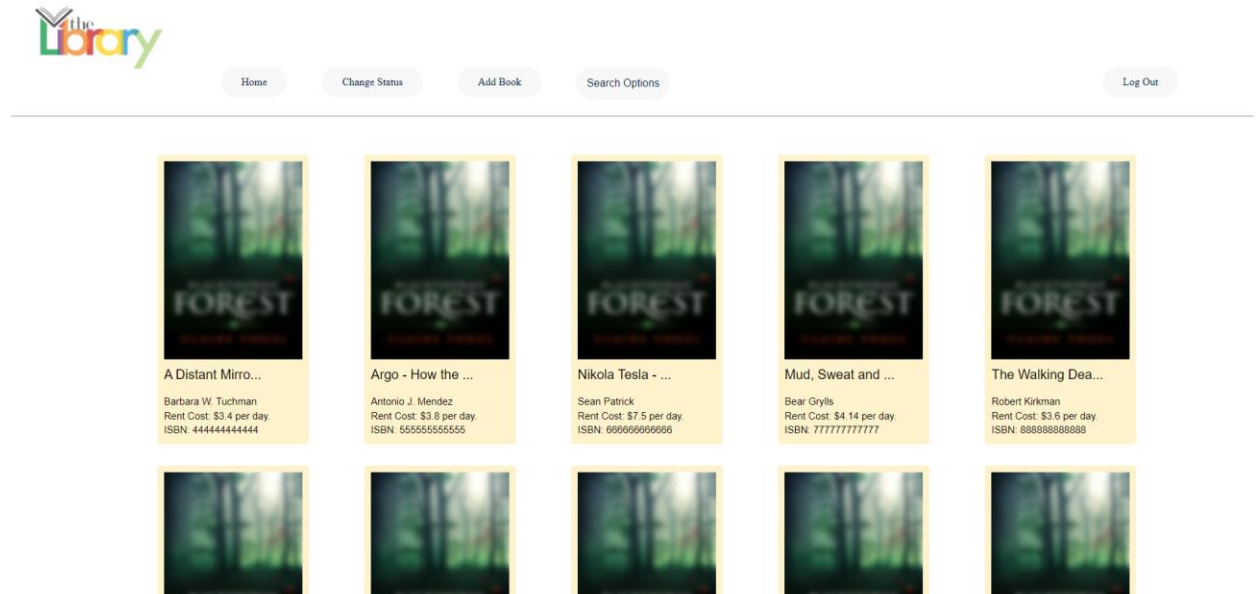
---

Librarian Details...

Submit

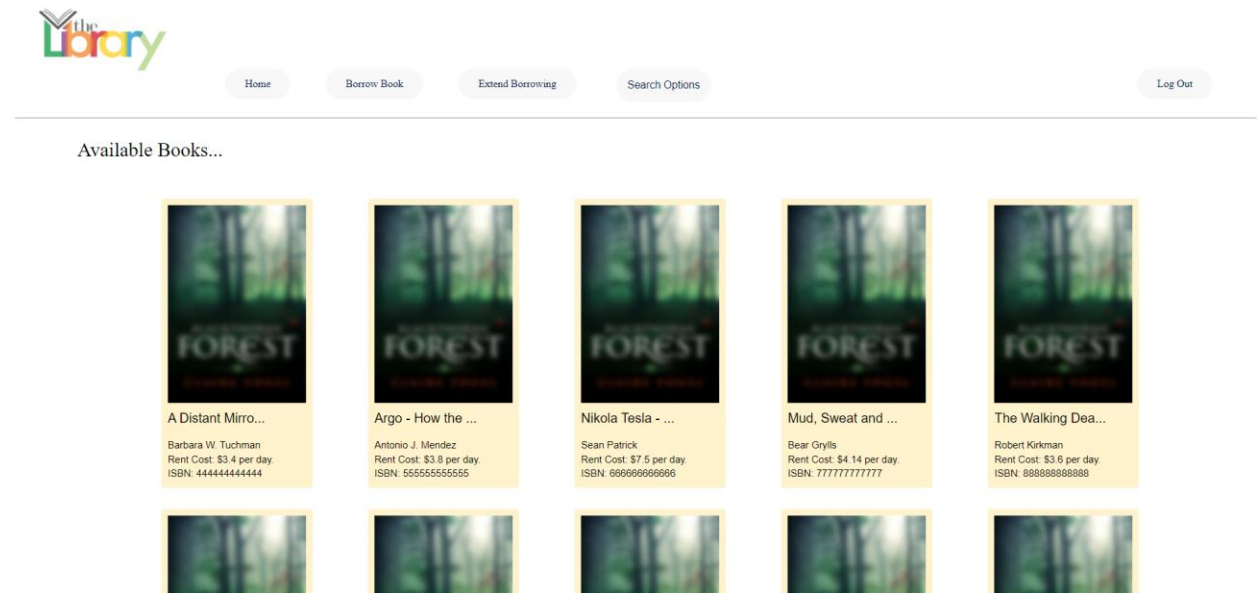
## 16. Page 5\_(Librarian\_Home).php:

Home will use Librarian header with links and will display all the available books in the database.



## 17. Page 6\_(Borrower\_Home).php:

Home will use Borrower header with links and will display all the available books in the database.



### 18. Page 7\_Change\_status.php:

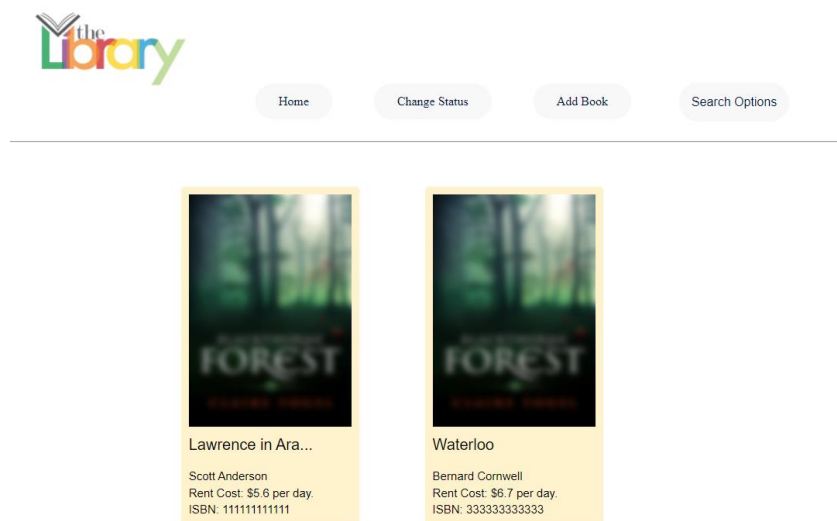
This page will display some forms to get data from user and user need to enter a valid ISBN and the new status. By clicking the submit it will update the database.



The screenshot shows a web form with a text input field labeled 'ISBN', a dropdown menu labeled 'Choose the Status:' with 'Available' selected, and a blue 'Submit' button.

### 19. Page 8\_View\_Borrowed\_Book.php:

This page will use Database Function page Function the retrieve data from the database. And will display all the borrowed books. And this page only accessible by Librarian only.



### 20. Page 9\_View\_Extended\_Book.php:

This page will use Database Function page Function the retrieve data from the database. And will display all the extended books. And this page only accessible by Librarian only.


[Home](#)
[Change Status](#)
[Add Book](#)
[Search Options](#)


## 21. Page 10\_Search.php:

This page will ask user some information about the book and will check with the database. If there is any similarity of them will display that. Else will display error message.


[Home](#)
[Change Status](#)
[Add Book](#)
[Search Options](#)
[Log Out](#)





## 22. Page 11\_Search\_by\_status.php:


This page will ask user to choose the status they are looking for and by clicking the submit button will display the related books to that status.


[Home](#)
[Change Status](#)
[Add Book](#)
[Search Options](#)
[Log Out](#)

Choose the Status:

### 23. Page 12\_Add\_Book.php:

Only Librarian can add book. And by submitting all the information they can easily entered any book in the database. For any wrong information it will display an error message.



---


[Home](#) [Change Status](#) [Add Book](#) [Search Options](#) [Log Out](#)

---

Choose the Status:

### 24. Page 13\_Search\_by\_status\_(Borrower).php:

This page will ask user to choose the status they are looking for and by clicking the submit button will display the related books to that status.



---


[Home](#) [Change Status](#) [Add Book](#) [Search Options](#) [Log Out](#)

---

Choose the Status:

## 25. Page 14\_Search\_(Borrower).php:

This page will ask user some information about the book and will check with the database. If there is any similarity of them will display that. Else will display error message.



Home Change Status Add Book Search Options Log Out

---

Author Name


Title

ISBN

Submit

## 26. Page 15\_Add\_to\_Borrowed.php:

This page will ask user to insert the ISBN of the book they want to borrow, and it will check the availability of the book. If it is available, it will update the database and state as borrowed. Else will show some error message.



Home Borrow Book Extend Borrowing Search Options Log Out


---

ISBN

Submit




## 27. Page 16\_Display\_Borrowed\_Book.php:

This page will display all the borrowed book by the specific user.



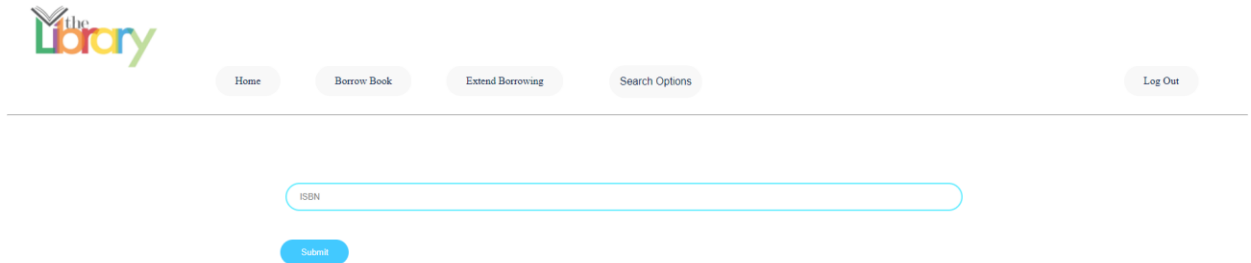
Home Borrow Book Extend Borrowing Search Options Log Out

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 <p>Lawrence in Ara...</p> <p>Scott Anderson Rent Cost: \$5.6 per day ISBN: 1111111111</p>	 <p>1493</p> <p>Charles C. Mann Rent Cost: \$5.4 per day ISBN: 2222222222</p>	 <p>Waterloo</p> <p>Bernard Cornwell Rent Cost: \$6.7 per day ISBN: 3333333333</p>
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## 28. Page 17\_Extend\_Borrowing.php:

This page will check if the user borrowed the book or not. If the borrowed the book it will change the status and will display the related information.



the Library

Home Borrow Book Extend Borrowing Search Options Log Out

ISBN

Submit