ISIT307 - Web Server Programming

Assignment – 3 (Digital Library)

Tutorial-03 (FT)

My name: Hay Munn Hnin Wai
My student number: 6573277
My email address: hmhw344@uowmail.edu.au
 Assignment number: 3

Create the database (Users / Books/ loan)

```
// sql to create user table
$user = "CREATE TABLE Users (
id int AUTO_INCREMENT PRIMARY KEY,        /* User ID */
username varchar(30) UNIQUE NOT NULL,
password varchar(50) NOT NULL,
name varchar(30) NOT NULL,
surname varchar(30) NOT NULL,
phone int(8) NOT NULL,
email varchar(50) NOT NULL,
type varchar(50) DEFAULT 'Librarian'
)";

// sql to create Books table
$books = "CREATE TABLE Books (
  id int AUTO_INCREMENT PRIMARY KEY,        /* Book ID */
  ISBN varchar(50) NOT NULL,
  Title varchar(50) NOT NULL,
  Author varchar(50) NOT NULL,
  Publisher varchar(50) NOT NULL,
  status varchar(20) DEFAULT 'Available',
  costPerDay int NOT NULL,
  extendedCostPerDay int NOT NULL,
  rentedBy varchar(30) NULL
)";

// sql to create Loan table
$loan = "CREATE TABLE loan (
  id int AUTO_INCREMENT PRIMARY KEY,
  bookID int,
  username varchar(50),
  borrowedDate date,
  ExtendedDate date NULL,
  totalCost int NULL
)";
```

```
//CREATE Librian account
$insert = "INSERT INTO `users` (id, username, password, name, surname, phone, email, type)
VALUES (NULL, 'Ting', '1234', 'Ting', 'Ting', '91234567', 'TT@mail.com', 'Librarian')";


if ($con->query($user) === TRUE) {
  //echo "Table Users created successfully";
} else {
  //echo "Error creating table: " . $con->error;
  $con->error;
}
```

- Create Librarian Account & Insert into database first

SELECT * FROM `users`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ⌄   Filter rows: Search this table   Sort by key: None ⌄

+ Options

		id	username	password	name	surname	phone	email	type
☐	🖉 Edit 🗐 Copy ⊖ Delete	1	Ting	1234	Ting	Ting	91234567	TT@mail.com	Librarian

Librarian

1. User Login / Register (register.php)

- **Register a new account & login as "Librarian"**

Registration Page

Username:	Jason
Password:	••••
Name:	Jason
Surname:	Lee
Phone:	89448716
Email:	Jason@gmail.com
Type:	Librarian ⌄

Submit

+ Options

		id	username	password	name	surname	phone	email	type
☐	🖉 Edit 🗐 Copy ⊖ Delete	1	Ting	1234	Ting	Ting	91234567	TT@mail.com	Librarian
☐	🖉 Edit 🗐 Copy ⊖ Delete	20	Feng	1234	Feng	Ying	81234567	FF@gmail.com	Borrower
☐	🖉 Edit 🗐 Copy ⊖ Delete	42	Jason	1234	Jason	Lee	83456789	jason@gmail.com	Librarian

Code

```php
<?php
  require 'dbconfig.php';

  if (isset($_POST['submit'])){
    // Connection to database
    $dbc = mysqli_connect($servername, $username, $password, $dbname);

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

    //variable       $_POST is for the one given in the HTML.
    $username = $_POST['username'];
    $name = $_POST['name'];
    $surname = $_POST['surname'];
    $phone = $_POST['phone'];
    $email = $_POST['email'];
    $password = $_POST['password'];
    $type = $_POST['type'];

    //INSERT into "table name" followed by "names in mysql"  VALUES "the variables given from above"
    $sql = "INSERT INTO `users` (`id`, `username`, `password`, `name`, `surname`, `phone`, `email`, `type`)
    VALUES (NULL, '$username', '$password', '$name', '$surname', '$phone', '$email', '$type')";

    if (mysqli_query($dbc, $sql)) {
      echo "New user record created successfully";
    } else {
      echo "Error: " . $sql . "<br>" . mysqli_error($dbc);
    }

    header("Location: success.php");    //redirect to success.php page
  }
?>
```

- **Insert all the user details into database**

Login with "Ting" Librarian account (index.php)

Login Page

Username: Ting
Password: ....

Login   Register Here

Code

```php
if ($con->query($user) === TRUE) {
  //echo "Table Users created successfully";
} else {
  //echo "Error creating table: " . $con->error;
  $con->error;
}

if ($con->query($books) === TRUE) {
  //echo "Table Books created successfully";
} else {
  //echo "Error creating table: " . $con->error;
  $con->error;
}

if ($con->query($loan) === TRUE) {
  //echo "Table loan created successfully";
} else {
  //echo "Error creating table: " . $con->error;
  $con->error;
}

if ($con->query($insert) === TRUE) {
  //echo "Librarian User Created Successfully";
} else {
  //echo "Error Creating User: " . $con->error;
  $con->error;
}
//mysqli_close($con);

$con -> close();

//session_start();
$dbc = mysqli_connect($servername, $username, $password, $dbname);
```

```php
//session_start();
$dbc = mysqli_connect($servername, $username, $password, $dbname);

if(isset($_POST['submit'])){
  $username = $_POST['username'];
  $password = $_POST['password'];
  $_SESSION['username'] = $_POST['username'];

  $user=mysqli_query($dbc,"SELECT * FROM users WHERE username='$username' AND password='$password'");

  $sql= "(SELECT * FROM `users` where username='$username' && password='$password')";

  $result = mysqli_query($dbc, $sql);
    $row = mysqli_fetch_array($result);

    $username = $row['username'];
    $type = $row['type'];

    $_SESSION["username"] = $row["username"];
    $_SESSION["type"] = $row["type"];

    if(mysqli_num_rows($user)==1){
      $_SESSION["username"] = $row["username"];
      header("Location:listBook.php");             // Redirect
        //echo "logged in";
      die('should have redirected by now');
    }

    else {
    echo "Error! No user found.";
    }

}

  if (isset($_POST['register']))          //If new user Register
  {
    header("Location: register.php");     //redirect "register.php"
  }

mysqli_query($dbc, $sql);
//mysqli_close( $dbc );
$dbc -> close();
?>
```

	All Users	All Books	Rents	

Books List

Welcome, Ting Log Out

| ISBN | Title | Author | Status | Search |

#	ISBN	Title	Author	Publisher	Status	Cost Per Day	Extended Cost Per Day	Action
4	B111	Chemistry	Jom	Leo	Available	5	10	Edit / View
5	CDE	Eng	Flora	TOM	Available	10	12	Edit / View

Code

```php
//connect to database
$dbc = mysqli_connect($servername, $username, $password, $dbname);

// Searched By
$searchISBN="";
$searchTitle="";
$searchAuthor="";
$searchStatus="";

//TO SEARCH for Book by ( ISBN, Title, Author, Status)
if(isset($_GET['searchISBN']) AND isset($_GET['searchTitle']) AND isset($_GET['searchAuthor']) AND isset($_GET['searchStatus'])){
    $searchISBN = $_GET['searchISBN']; // grab keyword
    $searchTitle = $_GET['searchTitle'];
    $searchAuthor = $_GET['searchAuthor'];
    $searchStatus = $_GET['searchStatus'];

    $sql ="SELECT * FROM books WHERE status='Available'
    AND (ISBN LIKE '%$searchISBN%' AND Title LIKE '%$searchTitle%' AND Author LIKE '%$searchAuthor%' AND status LIKE '%$searchStatus%')
    ORDER BY id ASC";
}else
    $sql = "SELECT * FROM books WHERE status='Available' ORDER BY id ASC";

    $result = mysqli_query($dbc, $sql);
?>
```

- (Search the book list by Keywords)

```php
echo " <table bgcolor='#000000' border= 1 width='80%'>
    <tr>
     <th>#</th>
     <th>ISBN</th>
     <th>Title</th>
     <th>Author</th>
     <th>Publisher</th>
     <th>Status</th>
     <th>Cost Per Day</th>
     <th>Extended Cost Per Day</th>
     <th width='20%'>Action</th>
    </tr>";

        while($row = mysqli_fetch_array($result)) {
        $id = $row['id'];
?>
        <tr>
         <td><?php echo $row["id"];?></td>
         <td><?php echo $row["ISBN"];?></td>
         <td><?php echo $row["Title"];?></td>
         <td><?php echo $row["Author"];?></td>
         <td><?php echo $row["Publisher"];?></td>
         <td><?php echo $row["status"];?></td>
         <td><center><?php echo $row["costPerDay"];?></td>
         <td><center><?php echo $row["extendedCostPerDay"];?></td>
        <td style="height:70px;">
        <?php
        if ($_SESSION["type"] == "Borrower" AND $row["status"] == "Available"){   //If user is Borrower
        ?>
         <a href='BorrowBook.php?ID=<?php echo $id;?>'><center><button style=' width:100px; height:50px; border-radius:5px; background-color:#43e6de;'
         >Borrow a Book</button></a>
        <?php
        }
        //Extend the date
        $username = $_SESSION['username'];
        if ($_SESSION["type"] == "Borrower" AND $row["status"] == "Not Available" AND $row["rentedBy"]){
        ?>
         <a href='returnBook.php?ID=<?php echo $id;?>&payID=<?php echo $paymentID;?>'><center><button style='color:black'>Return</button></a>
        <?php
        }
        if ($_SESSION["type"] == "Librarian"){
         ?>
          <a href='editBook.php?ID=<?php echo $id;?>'><center><button style='background-color:#40de9a; width:100px;float:center'>Edit</button></a><br><br>
          <a href='viewBook.php?ID=<?php echo $id;?>'><center><button style='background-color:#2874ed; width:100px;float:bottom'>View</button></a><br><br>
        <?php
        }
        ?>
```

- Display all the available books

View All users (allUsers.php)

Username	Name	Surname	Phone	Email	Type
All Users					
Username	Name	Surname	Phone	Email	Type
Feng	Feng	Ying	81234567	FF@gmail.com	Borrower
Jason	Jason	Lee	83456789	jason@gmail.com	Librarian
Ting	Ting	Ting	91234567	TT@mail.com	Librarian

Code (allUsers.php)

```php
//connect to database
$dbc = mysqli_connect($servername, $username, $password, $dbname);

$sql = "SELECT * FROM users ORDER BY name ASC";

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

?>
<br>
</div>
<div id="container">
<br><br>
<h1>All Users</h1><br><br><br>
<?php

echo " <table bgcolor='#000000' border= 1 width='70%'>
<tr>
    <th>Username</th>
    <th>Name</th>
    <th>Surname</th>
    <th>Phone</th>
    <th>Email</th>
    <th>Type</th>
</tr>";

    while($row = mysqli_fetch_array($result)) {
    $id = $row['id'];
?>
        <tr>
    <!--<td><?php echo $row["id"];?></td>-->
    <td><center><?php echo $row["username"];?></td>
    <td><center><?php echo $row["name"];?></td>
    <td><center><?php echo $row["surname"];?></td>
    <td><center><?php echo $row["phone"];?></td>
    <td><center><?php echo $row["email"];?></td>
    <td><center><?php echo $row["type"];?></td>
    </tr>
```

Insert a Book (insertBook.php)

	All Users	All Books	Rents

Books List

Insert a Book

Available Book

Welcome, Ting Log Out

ISBN | Title | Author | | Search

#	ISBN	Title	Author	Publisher	Status	Cost Per Day	Extended Cost Per Day	Action
4	B111	Chemistry	Jom	Leo	Available	5	10	Edit / View
5	CDE	Eng	Flora	TOM	Available	10	12	Edit / View

	All Users	All Books	Rents

Enter New Book Details

Welcome, Ting Log Out

ISBN: A222

Title: Science

Author: Kenny

Publisher : Lee Jun

Status: Available

Cost Per Day: 10

Extended Cost Per Day: 15

Submit

- **Fill in the form and Submit the book info.**
- **Table Below can see all the inserted books details.**

	All Users	All Books	Rents

Enter New Book Details

Welcome, Ting Log Out

ISBN:

Title:

Author:

Publisher :

Status: Available

Cost Per Day:

Extended Cost Per Day:

Submit

#	ISBN	Title	Author	Publisher	Status	Cost Per Day	Extended Cost Per Day
4	B111	Chemistry	Jom	Leo	Available	5	10
5	CDE	Eng	Flora	TOM	Available	10	12
6	EFG	Biology	Jenny	TOM	Not Available	12	15
7	A222	Science	Kenny	Lee Jun	Available	10	15

Code

```php
//connect to database
  $dbc = mysqli_connect($servername, $username, $password, $dbname);
if (isset($_POST['submit'])){      // If User submitted the Book Detail, insert into databse

//In order to be inserted into the DB as a NULL value.
$id = "";
$ISBN = "";
$Title = "";
$Author = "";
$Publisher = "";
$status = "";
$costPerDay = "";
$extendedCostPerDay =" ";
$rentedBy = "";

//variable $_POST is for the one given in the HTML.
//$id=$_POST['id'];
//Get the entered value from user
$ISBN = $_POST['ISBN'];
$Title = $_POST['Title'];
$Author = $_POST['Author'];
$Publisher = $_POST['Publisher'];
$status = $_POST['status'];
$costPerDay = $_POST['costPerDay'];
$extendedCostPerDay = $_POST['extendedCostPerDay'];

//INSERT into "table name" followed by "names in mysql"  VALUES "the variables given from above"
  $sql="INSERT INTO `books` (`id`, `ISBN`, `Title`, `Author`, `Publisher`, `status`, `costPerDay`, `extendedCostPerDay`, `rentedBy`)
  VALUES(NULL, '$ISBN', '$Title', '$Author', '$Publisher' , '$status', '$costPerDay', '$extendedCostPerDay', NULL)";
  mysqli_query($dbc, $sql);

  header("Location: insertBook.php");//redirect page
  }
?>
```

- **Insert into database**

```php
<div id="insertForm">
    <?php
$sql= "SELECT * FROM books ORDER BY `id` ASC"; //show all the books from database

 echo " <table border= 1 bgcolor='black' width='90%'>
 <tr>
     <th>#</th>
     <th>ISBN</th>
     <th>Title</th>
     <th>Author</th>
     <th>Publisher</th>
     <th>Status</th>
     <th>Cost Per Day</th>
     <th>Extended Cost Per Day</th>
 </tr>";

    $result = mysqli_query($dbc, $sql);
    while($row = mysqli_fetch_array($result)) {
?>
    <tr>
       <td><?php echo $row["id"];?></td>
       <td><?php echo $row["ISBN"];?></td>
       <td><?php echo $row["Title"];?></td>
       <td><?php echo $row["Author"];?></td>
       <td><?php echo $row["Publisher"];?></td>
       <td><?php echo $row["status"];?></td>
       <td><center><?php echo $row["costPerDay"];?></td>
       <td><center><?php echo $row["extendedCostPerDay"];?></td>
    </tr>
<?php
    }
    echo "</table>";
    echo "</br></br>";
?>
```

- **Display the Inserted info with table form below on the web page**

Access All "available" Books (availBook.php)

Available Books

Welcome, Ting Log Out

| ISBN | | Title | | Author | | Status | | Search | |

#	ISBN	Title	Author	Publisher	Status	Cost Per Day	Extended Cost Per Day	Action
4	B111	Chemistry	Jom	Leo	Available	5	10	Edit / View
5	CDE	Eng	Flora	TOM	Available	10	12	Edit / View
7	A222	Science	Kenny	Lee Jun	Available	10	15	Edit / View

Code

```php
//connect to database
$dbc = mysqli_connect($servername, $username, $password, $dbname);

$searchISBN="";
$searchTitle="";
$searchAuthor="";
$searchStatus="";

//TO SEARCH for Book by ( ISBN, Title, Author, Status)
  if(isset($_GET['searchISBN'])
  AND isset($_GET['searchTitle'])
  AND isset($_GET['searchAuthor'])
  AND isset($_GET['searchStatus'])){
      $searchISBN = $_GET['searchISBN']; // grab keyword
      $searchTitle = $_GET['searchTitle'];
      $searchAuthor = $_GET['searchAuthor'];
      $searchStatus = $_GET['searchStatus'];

      $sql ="SELECT * FROM books
      WHERE status='Available'
      AND (ISBN LIKE '%$searchISBN%' AND Title LIKE '%$searchTitle%' AND Author LIKE '%$searchAuthor%' AND status LIKE '%$searchStatus%')
      ORDER BY id ASC";
  }else
      $sql = "SELECT * FROM books WHERE status='Available' ORDER BY id ASC";

      $result = mysqli_query($dbc, $sql);
?>
```

- **Connect to database and Search available book By Keywords**

```
echo " <table bgcolor='#000000' border= 1 width='85%'>
<tr>
    <th>#</th>
    <th>ISBN</th>
    <th>Title</th>
    <th>Author</th>
    <th>Publisher</th>
    <th>Status</th>
    <th>Cost Per Day</th>
    <th>Extended Cost Per Day</th>
    <th width='15%'>Action</th>
</tr>";

    while($row = mysqli_fetch_array($result)) {
    $id = $row['id'];           //Get Book ID
?>
    <tr>
        <td><?php echo $row["id"];?></td>
        <td><?php echo $row["ISBN"];?></td>
        <td><?php echo $row["Title"];?></td>
        <td><?php echo $row["Author"];?></td>
        <td><?php echo $row["Publisher"];?></td>
        <td><?php echo $row["status"];?></td>
        <td><center><?php echo $row["costPerDay"];?></td>
        <td><center><?php echo $row["extendedCostPerDay"];?></td>
    <td>
    <?php
        //If borrower Click "Rent"
        if ($_SESSION["type"] == "Borrower" AND $row["status"] == "Available"){
    ?>
        <a href='BorrowBook.php?ID=<?php echo $id;?>'><center><button style=' width:100px; height:50px; border-radius:5px; background-color:#43e6de;'>Borrow a Book</button></a>
    <?php
        }
        if ($_SESSION["type"] == "Librarian"){
    ?>
        <a href='editBook.php?ID=<?php echo $id;?>'><center><button style='background-color:#40de9a; width:100px; height:30px; float:center'>Edit</button></a><br><br>
        <a href='viewBook.php?ID=<?php echo $id;?>'><center><button style='background-color:#2874ed; width:100px; height:30px; float:bottom'>View</button></a><br><br>
    <?php
        }
    ?>
    </td>
    </tr>
<?php
```

- **Display all the available books lists**

Edit the Book **(editbook.php)**

Code

```php
<h1>Edit Books</h1><br><br><br>
<?php

$dbc = mysqli_connect($servername, $username, $password, $dbname);
    $id = $_GET["ID"];//Get ID from URL

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

    $search_Result = mysqli_query($dbc, $sql);

    if($search_Result)
    {
      if(mysqli_num_rows($search_Result))
      {
        while($row = mysqli_fetch_array($search_Result))
        {
          $id = $row['id'];
          $ISBN = $row['ISBN'];
          $Title = $row['Title'];
          $Author = $row['Author'];
          $Publisher = $row['Publisher'];
          $status = $row['status'];
          $costPerDay = $row['costPerDay'];
          $extendedCostPerDay = $row['extendedCostPerDay'];
          $rentedBy = $row['rentedBy'];
        }
      }else
      {
        echo 'Invalid Book';
      }
    }
      else{ echo 'Result Error';
    }
    $sql = mysqli_query ($dbc, "SELECT * FROM books WHERE id = '$id' ");

  $check = mysqli_fetch_array($sql);
```

```php
$check = mysqli_fetch_array($sql);

  if (isset($_POST['update']))        //If user Updated the Info
  {
    $ISBN = $_POST['ISBN'];                 //Get user updated info
    $Title = $_POST['Title'];
    $Author = $_POST['Author'];
    $Publisher = $_POST['Publisher'];
    $status = $_POST['status'];
    $costPerDay = $_POST['costPerDay'];
    $extendedCostPerDay = $_POST['extendedCostPerDay'];

    if($status == 'Available'){      //If user set to Avaliable,   Update accordingly
      $update = "UPDATE books
      SET ISBN='$ISBN',
      Title='$Title',
      Author='$Author',
      Publisher='$Publisher',
      status='$status',
      costPerDay='$costPerDay',
      extendedCostPerDay='$extendedCostPerDay',
      rentedBy=NULL
      WHERE id='$id'";
    }
    else if ($status == 'Not Available')   //If user set to Avaliable , Update accordingly
    {
      $update = "UPDATE books
      SET ISBN='$ISBN',
      Title='$Title',
      Author='$Author',
      Publisher='$Publisher',
      status='$status',
      costPerDay='$costPerDay',
      extendedCostPerDay='$extendedCostPerDay'
      WHERE id='$id'";
    }

    $update_Result = mysqli_query($dbc, $update);
    header("Location: listBook.php");        //redirect page
  }
```

View book details (viewbook.php)

Code

```php
<h1><u>View Book Detail:</u></h1><br><br><br>
<?php

  $dbc = mysqli_connect($servername, $username, $password, $dbname);        //connect to database
      $id = $_GET["ID"];//Get ID from URL

      $sql = "SELECT * FROM books WHERE id ='$id'";      //View Specific Book

      $search_Result = mysqli_query($dbc, $sql);

      if($search_Result)
      {
        if(mysqli_num_rows($search_Result))
        {
          while($row = mysqli_fetch_array($search_Result))
          {
            $id = $row['id'];
            $ISBN = $row['ISBN'];
            $Title = $row['Title'];
            $Author = $row['Author'];
            $Publisher = $row['Publisher'];
            $status = $row['status'];
            $costPerDay = $row['costPerDay'];
            $extendedCostPerDay = $row['extendedCostPerDay'];
            $rentedBy = $row['rentedBy'];
          }
        }else
        {
          echo 'Invalid Book';
        }
      }
        else{ echo 'Result Error';
      }
      $sql = mysqli_query ($dbc, "SELECT * FROM books WHERE id = '$id' ");

    $check = mysqli_fetch_array($sql);
```

```php
      if (isset($_POST['home']))
      {
        header("Location: listBook.php");    //redirect  page
      }
?>
```

```php
<div id="form">
<form action="" method="post" enctype="multipart/form-data">
    <table border=0>
    <tr>
      <td>Bookd ID:</td>
      <td style="color: black;"><?php echo $id;?></td>
    </tr>
    <tr>
      <td>ISBN:</td>
      <td style="color: black;"><?php echo $ISBN;?></td>
    </tr>
    <tr>
      <td>Title:</td>
      <td style="color: black;"><?php echo $Title;?></td>
    </tr>
    <tr>
      <td>Author:</td>
      <td style="color: black;"><?php echo $Author;?></td>
    </tr>
    <tr>
      <td>Publisher:</td>
      <td style="color: black;"><?php echo $Publisher;?></td>
    </tr>
    <tr>
      <td>Status:</td>
      <td style="color: black;"><?php echo $status;?></td>
    </tr>
    <tr>
      <td>Cost Per Day:</td>
      <td style="color: black;"><?php echo $costPerDay;?></td>
    </tr>
    <tr>
      <td>Extended Cost Per Day :</td>
      <td style="color: black;"><?php echo $extendedCostPerDay;?></td>
    </tr>
    <tr>
      <td><input style="width:130px; height:30px; background-color:#43e6c5;"type="submit" name="home" value="Back To Home"></td>
    </tr>
    <br>
<?php
```

View all the Rented Books Details (rentedBook.php)

Code (rentedBook.php)

```php
//Connect to database
$dbc = mysqli_connect($servername, $username, $password, $dbname);
$rentedBy = "";

  // Searched By
  $searchISBN="";
  $searchTitle="";
  $searchAuthor="";
  $searchStatus="";

  //TO SEARCH for Book by ( ISBN, Title, Author, Status)
  if(isset($_GET['searchISBN'])
  AND isset($_GET['searchTitle'])
  AND isset($_GET['searchAuthor'])
  AND isset($_GET['searchStatus']))
  {
      $searchISBN = $_GET['searchISBN']; // grab keyword
      $searchTitle = $_GET['searchTitle'];
      $searchAuthor = $_GET['searchAuthor'];
      $searchStatus = $_GET['searchStatus'];

      //This statement is for borrowed and borrowed before
      $sql ="SELECT DISTINCT loan.bookID AS 'Book ID',      /* If user Search By Keywords, Display the specific Info */
       books.ISBN AS 'ISBN',
       books.Title AS 'Title',
       books.Author AS 'Author',
       books.Publisher AS 'Publisher',
       books.status AS 'status'
       FROM books
       INNER JOIN loan
       ON books.id = loan.bookID
       WHERE (books.ISBN LIKE '%$searchISBN%'
       AND books.Title LIKE '%$searchTitle%'
       AND books.Author LIKE '%$searchAuthor%'
       AND books.status LIKE '%$searchStatus%')";
```

```php
  }else
      $sql ="SELECT DISTINCT                      /* Else, Display the book lists from table loan */
      loan.bookID AS 'Book ID',
      books.ISBN AS 'ISBN',
      books.Title AS 'Title',
      books.Author AS 'Author',
      books.Publisher AS 'Publisher',
      books.status AS 'status'
      FROM books
      INNER JOIN loan ON books.id = loan.bookID";

      $result = mysqli_query($dbc, $sql);
?>
<br>
</div>
<div id="container">
<br>
<h1>Borrowed Books</h1><br><br><br>
```

```php
<h1>Borrowed Books</h1><br><br><br>

<form action ="" method="GET">
    <input type="text" name="searchISBN" class="form-control" placeholder="ISBN" value="<?php echo "$searchISBN"; ?>" >
    <input type="text" name="searchTitle" class="form-control" placeholder="Title" value="<?php echo "$searchTitle"; ?>" >
    <input type="text" name="searchAuthor" class="form-control" placeholder="Author" value="<?php echo "$searchAuthor"; ?>" >
    <input type="text" name="searchStatus" class="form-control" placeholder="status" value="<?php echo "$searchStatus"; ?>" >
    <button class="btn">Search</button>
  </form>
<?php

  echo " <table bgcolor='#000000' border= 1 width='70%'>
  <tr>
      <th>#</th>
      <th>ISBN</th>
      <th>Title</th>
      <th>Author</th>
      <th>Publisher</th>
      <th>Status</th>
      </tr>";

         while($row = mysqli_fetch_array($result)) {

         $id = $row['Book ID'];
?>
      <tr>
      <td><?php echo $row["Book ID"];?></td>
      <td><?php echo $row["ISBN"];?></td>
      <td><?php echo $row["Title"];?></td>
      <td><?php echo $row["Author"];?></td>
      <td><?php echo $row["Publisher"];?></td>
      <td><?php echo $row["status"];?></td>
      </tr>
<?php
      echo "</tr>";
}
      echo "</table>";
      echo "</br></br>";
?>
</br></br>
```

BORROWER

Login As "Borrower"

- **Borrower Dashboard (listBook.php)**

	All Book Resources	Check History						

Books List

Welcome, Feng **Log Out**

ISBN	Title	Author	Status		Search

#	ISBN	Title	Author	Publisher	Status	Cost Per Day	Extended Cost Per Day	Action
4	B111	Chemistry	Jom	Leo	Available	5	12	Borrow a Book
5	CDE	Eng	Flora	TOM	Available	10	12	Borrow a Book
7	A222	Science	Kenny	Lee Jun	Available	10	15	Borrow a Book

BorrowBook.php

	All Book Resources	Check History

Borrow a Book

Welcome, Feng **Log Out**

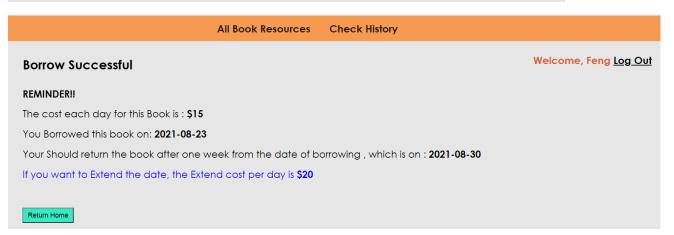| Bookd ID:	17
ISBN:	A222
Title:	Chinese History
Author:	Kenny
Publisher:	Anthony
Status:	Not Available
Cost Per Day:	15
Extended Cost Per Day :	20

Borrow Book   Cancel

- **After the user clicked "borrow" button, Alert the notification message**

Code (Borrow.php)

```php
//Connect to database
$dbc = mysqli_connect($servername, $username, $password, $dbname);
$rentedBy = "";

    $id = $_GET["ID"];//Get ID from URL

    $sql = "SELECT * FROM books WHERE id ='$id'";
    $search_Result = mysqli_query($dbc, $sql);

    if($search_Result)
    {
      if(mysqli_num_rows($search_Result))
      {
        while($row = mysqli_fetch_array($search_Result))
        {
          $id = $row['id'];
          $ISBN = $row['ISBN'];
          $Title = $row['Title'];
          $Author = $row['Author'];
          $Publisher = $row['Publisher'];
          $status = $row['status'];
          $costPerDay = $row['costPerDay'];
          $extendedCostPerDay = $row['extendedCostPerDay'];
          $rentedBy = $row['rentedBy'];
        }
      }else
      {
        echo 'Invalid Book!';
      }
    }
      else{ echo 'Result Error';
    }
    $sql = mysqli_query ($dbc, "select * from books WHERE id = '$id' ");

  $check = mysqli_fetch_array($sql);
```

```php
if (isset($_POST['borrow']))        //when User Click 'Borrow'
{
    $username= $_SESSION["username"]; //Get username from session.
    $borrowedDate = date('Y-m-d H:i:s');            // Get Today Date

    //Update the database table --> Update ( status & RentedBy who? )
    $rent = "UPDATE books SET status='Not Available',
     rentedBy ='$username'
     WHERE id='$id'";

    //Insert borrowed info into table "loan"
    $loan ="INSERT INTO `loan`
    (`id`, `bookID`, `username`, `borrowedDate`, `ExtendedDate`, `totalCost`)
    VALUES(NULL, '$id', '$username', CURDATE(), NULL , $costPerDay)";

    $update_Result = mysqli_query($dbc, $rent);    //Update the table "book"
    $update_Result = mysqli_query($dbc, $loan);    //Update the table "loan"
    header("Location: successBorrow.php?ID=$id");      //Redirect page
}

if (isset($_POST['back']))                          // If user click Back
{
    header("Location: listBook.php");              //Redirect Page
}
?>
```

Redirect Page after clicked "Borrow Book" button → (successBorrow.php)

localhost says

The cost per day for this book is $15

OK

All Book Resources   Check History

Borrow Successful   Welcome, Feng **Log Out**

REMINDER!!

The cost each day for this Book is : **$15**

You Borrowed this book on: **2021-08-23**

Your Should return the book after one week from the date of borrowing , which is on : **2021-08-30**

If you want to Extend the date, the Extend cost per day is **$20**

Return Home

Code (SuccessBorrow.php)

```php
//Connect to database
$dbc = mysqli_connect($servername, $username, $password, $dbname);
$rentedBy = "";

    $id = $_GET["ID"];              //Get ID from URL

    $sql = "SELECT books.id AS 'Book ID',
    loan.bookID AS 'Loan ID',
    books.costPerDay AS 'costPerDay',
    books.extendedCostPerDay AS 'extendedCostPerDay',
    loan.borrowedDate AS 'borrowedDate',
    loan.ExtendedDate AS 'ERD'
    FROM books
    INNER JOIN loan ON books.id = loan.bookID";

    $search_Result = mysqli_query($dbc, $sql);

    if($search_Result)
    {
      if(mysqli_num_rows($search_Result))
      {
        while($row = mysqli_fetch_array($search_Result))
        {
          $bookID = $row['Book ID'];
          $loanID = $row['Loan ID'];
          $costPerDay = $row['costPerDay'];
          $extendedCostPerDay = $row['extendedCostPerDay'];
          $borrowedDate = $row['borrowedDate'];
          $ExtendedDate = $row['ERD'];            // If user Extend
        }
      }else
      {
        echo 'Invalid Book!';
      }
    }
      else{ echo 'Result Error';
    }

  $sql = mysqli_query ($dbc, $sql);
```

```php
    $check = mysqli_fetch_array($sql);
    $borrowdate = date('Y-m-d H:i:s');            // Get Today Date

      if (isset($_POST['home']))
      {
        header("Location: listBook.php");          //redirect page
      }
?>
<div id="container">
<br>
<?php
$message = "The cost per day for the product is $" .$costPerDay ."<br/>";
echo "<script type='text/javascript'>alert('$message');</script>";    // Alert the message to user
?>

<h1>Borrow Successful</h1><br><br><br>
<p style="color:black;"><big><b>REMINDER!</b><br><br>
The cost each day for this Book is : <b>$<?php echo $costPerDay?></b>  <br> <br>
If you want to extend the date, the Extended cost per day is <b>$<?php echo $extendedCostPerDay ?><br></big></p>
  <div id="form">
    <form action="" method="post" enctype="multipart/form-data">
      <input type="hidden" name="loanID">        <!-- rentedBy-->
      <input type="submit" name="home" value="Return Home">
    </form>
  </div>
  </body>
</html>
<?php
  mysqli_close( $dbc ) ;
?>
```

Borrower Access (Current Borrowing Book)

myRents.php

					All Book Resources	Check History			

My Borrowed Books

Welcome, Feng **Log Out**

#	ISBN	Title	Author	Publisher	Status	Cost Per Day	Extended Cost Per Day	Borrowed Date	Action
14	ABC	Eng	Tomas	John Doe	Not Available	10	20	2021-08-23	Extend Rent
15	CDE	Chemistry	Flora	TOM	Not Available	5	10	2021-08-23	Extend Rent

Code (myRents.php)

```php
//connect to database
$dbc = mysqli_connect($servername, $username, $password, $dbname);

$username= $_SESSION["username"]; //Get username from session.

$sql ="SELECT DISTINCT books.id AS 'Book ID',
  books.ISBN AS 'ISBN',
  books.Title AS 'Title',
  books.Author AS 'Author',
  books.Publisher AS 'Publisher',
  books.status AS 'status',
  books.costPerDay AS 'costPerDay',
  books.extendedCostPerDay AS 'extendedCostPerDay',
  loan.borrowedDate AS 'Borrow Date'
  FROM books INNER JOIN loan
  ON books.id = loan.bookID
  WHERE books.rentedBy='$username' ORDER BY books.id ASC";

$result = mysqli_query($dbc, $sql);
```

```php
<h1>My Borrowed Books</h1><br><br><br>
<?php

  echo " <table bgcolor='#000000' border= 1 width='85%'>
  <tr>
  <th>#</th>
  <th>ISBN</th>
  <th>Title</th>
  <th>Author</th>
  <th>Publisher</th>
  <th>Status</th>
  <th>Cost Per Day</th>
  <th>Extended Cost Per Day</th>
  <th>Borrowed Date</th>
  <th width='15%'>Action</th>
</tr>";

      while($row = mysqli_fetch_array($result)) {

      $id = $row['Book ID'];
?>
        <tr>
    <td><?php echo $row["Book ID"];?></td>
    <td><?php echo $row["ISBN"];?></td>
    <td><?php echo $row["Title"];?></td>
    <td><?php echo $row["Author"];?></td>
    <td><?php echo $row["Publisher"];?></td>
    <td><?php echo $row["status"];?></td>
    <td><center><?php echo $row["costPerDay"];?></td>
    <td><center><?php echo $row["extendedCostPerDay"];?></td>
    <td><center><?php echo $row["Borrow Date"];?></td>

    <td>
    <?php
      $username = $_SESSION['username'];
      $extendedCostPerDay = $row['extendedCostPerDay'];
    ?>
    <a href='extendRent.php?ID=<?php echo $id;?>&payID=<?php echo $extendedCostPerDay;?>'><center><br>
      <button style='color:black; width:100px; height:30px; background-color:#34eb93;'>Extend Rent</button><br><br></a>

    </td>
```

Borrower search available book By keywords (availBook.php)

All Book Resources   Check History

Available Books

Welcome, Feng Log Out

| ISBN | Title | Author | Status | Search |

#	ISBN	Title	Author	Publisher	Status	Cost Per Day	Extended Cost Per Day	Action
14	ABC	Eng	Tomas	John Doe	Available	10	20	Borrow a Book
15	CDE	Chemistry	Flora	TOM	Available	5	10	Borrow a Book
16	EFG	Book-1	Jom	Leo	Available	12	15	Borrow a Book

All Book Resources   Check History

Available Books

Welcome, Feng Log Out

| ABC | Title | Author | Status | Search |

#	ISBN	Title	Author	Publisher	Status	Cost Per Day	Extended Cost Per Day	Action
14	ABC	Eng	Tomas	John Doe	Available	10	20	Borrow a Book