

Web Development 2

Assignment

C20483514

TU856/2

PHP pages used:

- Database.php
- Index.php
- Login.php
- Logout.php
- Register.php
- Reserve.php

1. Database.php

PHP page for establishing the connection to the mysql database. It is included in every php page in order to interact with the database

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "bookproject";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);

//Check connection
if ($conn->connect_error) {
    die("Connection Failed: " . $conn->connect_error);
}

?>
```

2. Index.php

PHP page that is the main page for the website functionality. A book can be searched either by keyword or certain category. The results are shown underneath in a table with all the details as well as a reserve button if the book has not been reserved yet. There is a logout button directed to logout.php. There is also a view reservations button to reserve.php

```

<?php
    session_start();
    if (isset($_SESSION["success"])) {
        echo("<script>alert('".$_SESSION["success"]."')</script>");
        unset($_SESSION["success"]);
        $_POST['book'] = '';
        $_POST['searchtype'] = 'both';
        $_SESSION['searchtype'] = $_POST['searchtype'];
    }

    if (!isset($_SESSION["un"])) {
        echo("<script>alert('No user logged in')</script>");
        session_destroy();
        header('Location: login.php');
        exit();
    }

    require_once"database.php";
?>
<html>
    <head>
        <title>Welcome</title>
        <link rel="stylesheet" href="site.css">
    </head>

    <body id="bg">
        <div id="main1">
            <header>
                <br>
                <h1 id="main_heading">Welcome to Kieran's Library</h1>
                <br>
                <hr>
            </header>

```

```

</div>
    <button onclick="location.href='logout.php'; return false ">Logout</button>
</div>

<div id="contact">
    <h2>Search</h2>

    <?php
        if (isset($_SESSION["error"])) {
            if ($_SESSION["error"] == 'Error: Please choose a searchtype') {
                $_POST['book'] = '';
                $_POST['searchtype'] = 'both';
            }
            echo("<script>alert('".$_SESSION["error"]."')</script>");
            unset($_SESSION["error"]);
        }
    ?>

    <form method="post">
        <div>Search by keyword (Book title or Author)<input type="text" name="book"></div>
        <div>
            <input class="rad" type="radio" id="bt" name="searchtype" value="booktitle"
            <?php if (isset($_POST['searchtype']) && $_POST['searchtype'] == 'booktitle') echo 'checked'?>>
            <label for="bt">Book Title</label><br>
            <input class="rad" type="radio" id="aut" name="searchtype" value="author"
            <?php if (isset($_POST['searchtype']) && $_POST['searchtype'] == 'author') echo 'checked'?>>
            <label for="aut">Author</label><br>
            <input class="rad" type="radio" id="b" name="searchtype" value="both"
            <?php if (isset($_POST['searchtype']) && $_POST['searchtype'] == 'both') echo 'checked'?>>
            <label for="b">Both</label>
        </div>
        <button type="submit">Search</button>
    </form>

```

```

<form method="post" name="CategorySelect">
  <p>Search by Category Description</p>
  <select name="Categories" onchange="CategorySelect.submit()">
    <option value="">-- Please Select --</option>
    <?php
      $sql = "SELECT CategoryDescription FROM categories";
      $result = $conn->query($sql);
      while($row = $result->fetch_assoc()) {
        echo("<option value='". $row["CategoryDescription"]."'>". $row["CategoryDescription"]. "</option>");
      }
    >
  </select>
</form>
</div>

<div id="result">
  <div class="button"><button onclick="location.href='reserve.php'; return false ">View Reserved Books</button></div>
  <br>
  <?php
    if(!isset($_POST['book']) && isset($_SESSION['Categories'])) {
      $_POST['book'] = $_SESSION['book'];
    }

    if(isset($_POST['Categories'])) {
      unset($_POST['book']);
    }

    if(isset($_POST['book'])) {
      unset($_SESSION['Categories']);
      $book = $_POST['book'];
      if(isset($_GET['page'])) {
        $page = $_GET['page'];
      }
    }
  >

```

```

    if(isset($_POST['searchtype'])) {
      $_SESSION['searchtype'] = $_POST['searchtype'];
    }

    else {
      $_POST['searchtype'] = $_SESSION['searchtype'];
    }

    if (isset($_GET['page']) && isset($_POST['searchtype']) && $_POST['searchtype'] == 'booktitle') {
      $sql= "SELECT * FROM books WHERE (BookTitle LIKE '%$book%')";
      $result = $conn->query($sql);
      $pagenum = ceil(($result->num_rows)/5);
      if($pagenum < ($page / 5) + 1 && $result->num_rows > 0) {
        $_SESSION['book'] = $book;
        header("Location: index.php?page=0");
        exit();
      }
      $sql= "SELECT * FROM books WHERE (BookTitle LIKE '%$book%') LIMIT $page, 5";
    }

    elseif (isset($_GET['page']) && isset($_POST['searchtype']) && $_POST['searchtype'] == 'author') {
      $sql= "SELECT * FROM books WHERE (Author LIKE '%$book%')";
      $result = $conn->query($sql);
      $pagenum = ceil(($result->num_rows)/5);
      if($pagenum < ($page / 5) + 1 && $result->num_rows > 0) {
        $_SESSION['book'] = $book;
        header("Location: index.php?page=0");
        exit();
      }
      $sql= "SELECT * FROM books WHERE (Author LIKE '%$book%') LIMIT $page, 5";
    }
  }
}

```

```

elseif (isset($_GET['page']) && isset($_POST['searchtype']) && $_POST['searchtype'] == 'both') {
    $sql= "SELECT * FROM books WHERE (BookTitle LIKE '%$book%' OR Author LIKE '%$book%')";
    $result = $conn->query($sql);
    $pagenum = ceil(($result->num_rows)/5);
    if($pagenum < ($page / 5) + 1 && $result->num_rows > 0) {
        $_SESSION['book'] = $book;
        header("Location: index.php?page=0");
        exit();
    }
    $sql= "SELECT * FROM books WHERE (BookTitle LIKE '%$book%' OR Author LIKE '%$book%') LIMIT $page, 5";
}

$result = $conn->query($sql);
if ($result->num_rows > 0) {
    echo "searched by: " . $_POST['searchtype'];
    echo "<table border='1'>";
    echo "<thead>";
    echo "<tr><td>". "ISBN".
    "</td><td>". "BookTitle".
    "</td><td>". "Author".
    "</td><td>". "Edition".
    "</td><td>". "Year".
    "</td><td>". "CategoryID".
    "</td><td>". "Reserved".
    "</td></tr>\n";
    echo "</thead>\n";
    //output data of each row
    while($row = $result->fetch_assoc()) {
        echo "<tr><td>";
        echo $row["ISBN"].
        "</td><td>". $row["BookTitle"].
        "</td><td>". $row["Author"].

```

```

        "</td><td>". $row["Edition"].
        "</td><td>". $row["Year"].
        "</td><td>". $row["CategoryID"].
        "</td><td>". $row["Reserved"].
        "</td>";
        if($row["Reserved"] == 'N') {
            echo "<td><button onclick='location.href=reserve.php?book=".$row["ISBN"]."'>Reserve</button></td>";
        }
        echo "</tr>\n";
    }
    echo "</table>\n";
    $i = 0;
    while($i < $pagenum) {
        echo "<button" . " onclick='location.href=index.php?page=" . ($i * 5) . "'>"; return false >". ($i + 1) . "</button>";
        $_SESSION['book'] = $book;
        $i++;
    }
}

else {
    echo "searched by: " . $_POST['searchtype'] . "<br>";
    echo "0 results";
}

if(isset($_POST['Categories']) && !isset($_SESSION['book'])) {
    $_POST['Categories'] = $_SESSION['Categories'];
}

if(isset($_POST['book'])) {
    unset($_POST['Categories']);
}

```

```

if(isset($_POST['Categories'])) {
    unset($_SESSION['book']);
    $category = $_POST['Categories'];
    if(isset($_GET['page'])) {
        $page = $_GET['page'];
    }

    if($category == '' && !isset($_GET['Categories'])) {
        $sql= "SELECT * FROM books";
    }

    elseif(isset($_GET['Categories']) && $category == '') {
        $sql= "SELECT * FROM books";
        $result = $conn->query($sql);
        $pagenum = ceil(($result->num_rows)/5);
        $sql= "SELECT * FROM books LIMIT $page, 5";
    }

    else {
        $sql= "SELECT * FROM books WHERE CategoryID LIKE (SELECT CategoryID FROM categories WHERE CategoryDescription = '$category')";
        $result = $conn->query($sql);
        $pagenum = ceil(($result->num_rows)/5);
        $sql= "SELECT * FROM books WHERE CategoryID LIKE (SELECT CategoryID FROM categories WHERE CategoryDescription = '$category') LIMIT $page";
    }

    $result = $conn->query($sql);
    if ($result->num_rows > 0) {
        echo "<table border='1'>";
        echo "<thead>";
        echo "<tr><td>". "ISBN".
        "</td><td>". "BookTitle".
        "</td><td>". "Author".

```

```

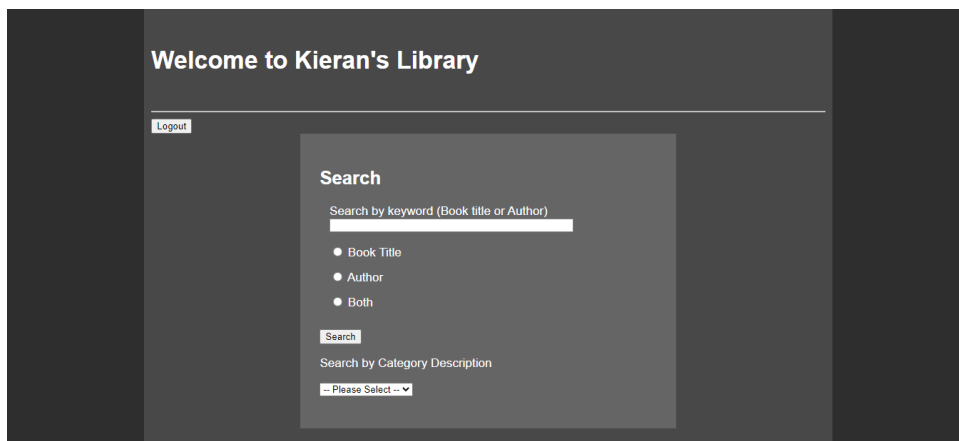
" /td><td>" . "Edition".
" /td><td>" . "Year".
" /td><td>" . "CategoryID".
" /td><td>" . "Reserved".
" /td></tr>>\n";
echo " </thead>\n";
//output data of each row
while($row = $result->fetch_assoc()) {
    echo " <tr><td>";
    echo $row["ISBN"];
    " /td><td>" . $row["BookTitle"];
    " /td><td>" . $row["Author"];
    " /td><td>" . $row["Edition"];
    " /td><td>" . $row["Year"];
    " /td><td>" . $row["CategoryID"];
    " /td><td>" . $row["Reserved"];
    " /td>";
    if($row["Reserved"] == 'N') {
        echo " <td><button onclick=\".location.href='reserve.php?book=".$row["ISBN"].'"; return false >Reserve</button></td>";
    }
    echo " </tr>>\n";
}
echo " </table>\n";
$i = 0;
while($i < $pagenum) {
    echo " <button\" onclick=\".location.href='index.php?page='.( $i * 5).'"; return false >'.( $i + 1).'</button>";
    $_SESSION['Categories'] = $category;
    $i++;
}
}
}
else {

```

```

        echo "0 results";
    }
}
?>
</div>
<hr>
<footer>Site By: C20483514 2021</footer>
</div>
</body>
</html>

```



3. Login.php

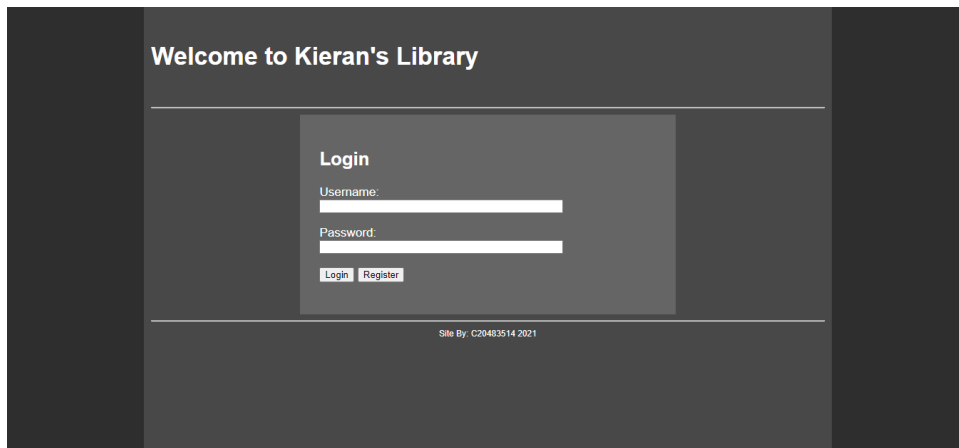
PHP page for checking user login details. It must be used before accessing the library system. After a user has logged in successfully, the username is saved in the session and brought to index.php to be verified and allowed access as well as reserve.php in order to get user-specific reservations

```
<?php session_start(); ?>
<html>
  <head>
    <title>Login Page</title>
    <link rel="stylesheet" href="site.css">
  </head>

  <?php
  require_once "database.php";
  if ( !empty($_POST['un']) && !empty($_POST['pw'])) {
    $un = $_POST['un'];
    $pw = $_POST['pw'];
    $sql= "SELECT Username, Password FROM Users";
    $result = $conn->query($sql);
    if ($result->num_rows > 0) {
      //output data of each row
      while($row = $result->fetch_assoc()) {
        if($un == $row["Username"] && $pw == $row["Password"]) {
          $_SESSION["un"] = $un;
          $_SESSION["success"] = "Login Successful";
          header("Location: index.php?page=0");
          exit();
        }
      }
      $_SESSION["error"] = "Incorrect username or password. Please try again";
      header('Location: login.php');
      exit();
    }
  }
  ?>
  <body id="bg">
    <div id="main1">

      <header>
        <br>
        <h1 id="main_heading">Welcome to Kieran's Library</h1>
        <br>
        <hr>
      </header>

      <div id="contact">
        <h2>Login</h2>
        <?php
        if (isset($_SESSION["error"])) {
          echo("<script>alert('".$_SESSION["error"]."')</script>");
          unset($_SESSION["error"]);
        }
        ?>
        <form method="post">
          <p>Username:<input type="text" name="un"></p>
          <p>Password:<input type="password" name="pw"></p>
          <button type="submit">Login</button>
          <button onclick="location.href='register.php'; return false ">Register</button>
        </form>
      </div>
      <hr>
      <footer>Site By: C20483514 2021</footer>
    </div>
  </body>
</html>
```



4. Logout.php

PHP page with code to destroy the session and restart it. This clears the current user logged in and directs the user back to the login page. It linked to the logout button in index.php

```
k?php
    session_start();
    session_destroy();
    header("Location: login.php");
?>
```

5. Register.php

PHP page to register as a user. All the data fields must be filled in and on submission, gets added to the database user table. Validation is appropriately in place and users may login with the new details after registering, on login.php


```

<?php
    session_start();
?>
<html>
    <head>
        <title>Register Page</title>
        <link rel="stylesheet" href="site.css">
    </head>

    <?php
    require_once "database.php";
    if ( !empty($_POST['un']) && !empty($_POST['pw']) && !empty($_POST['pw2'])
    && !empty($_POST['fn']) && !empty($_POST['sn']) && !empty($_POST['al1'])
    && !empty($_POST['city']) && !empty($_POST['tele']) && !empty($_POST['mobile'])) {
        $un = $_POST['un'];
        $pw = $_POST['pw'];
        $pw2 = $_POST['pw2'];
        if (strlen($pw) > 6) {
            $_SESSION["error"] = "Password must be 6 characters or less";
            header('Location: register.php');
            exit();
        }

        if ($pw != $pw2) {
            $_SESSION["error"] = "Passwords do not match";
            header('Location: register.php');
            exit();
        }
        $fn = $_POST['fn'];
        $sn = $_POST['sn'];
        $al1 = $_POST['al1'];
        $al2 = $_POST['al2'];

```

```

        $city = $_POST['city'];
        $tele = $_POST['tele'];
        $mobile = $_POST['mobile'];
        if(strlen((string)$mobile) != 10) {
            $_SESSION["error"] = "Mobile phone numbers must be 10 numbers in length";
            header('Location: register.php');
            exit();
        }
        $sql= "INSERT INTO Users
VALUES ('$un', '$pw', '$fn', '$sn', '$al1', '$al2', '$city', $tele, $mobile)";
        if ($conn->query($sql) === TRUE) {
            echo '<script>alert("New user registered successfully");</script>';
        }
        else {
            $sql= "SELECT Username FROM Users";
            $result = $conn->query($sql);
            if ($result->num_rows > 0) {
                //output data of each row
                while($row = $result->fetch_assoc()) {
                    if($un == $row["Username"]) {
                        $_SESSION["error"] = "Error: Username already exists";
                        header('Location: register.php');
                        exit();
                    }
                }
                echo "Error:" . $sql . "<br>" . $conn->error;
            }
        }
    }
}

elseif (count($_POST) > 0) {

```

```

        $_SESSION["error"] = "Error: Make sure all fields are filled in.";
        header('Location: register.php');
        return;
    }

    $conn->close();
?>
<body id="bg">
    <div id="main1">
        <header>
            <br>
            <h1 id="main_heading">Welcome to Kieran's Library</h1>
            <br>
            <hr>
        </header>
        <div id="contact">
            <h2>Register</h2>
            <?php
                if (isset($_SESSION["error"])) {
                    echo("<script>alert('".$_SESSION["error"]."')</script>");
                    unset($_SESSION["error"]);
                }
            ?>
            <form method="post">
                <div><label>Username:</label><input type="text" name="un"></div>
                <div><label>Password:</label><input type="password" name="pw"></div>
                <div><label>Confirm Password:</label><input type="password" name="pw2"></div>
                <div><label>Firstname:</label><input type="text" name="fn"></div>
                <div><label>Surname:</label><input type="text" name="sn"></div>
                <div><label>Address Line 1:</label><input type="text" name="a1"></div>
                <div><label>Address Line 2:</label><input type="text" name="a2"></div>
                <div><label>City:</label><input type="text" name="city"></div>
                <div><label>Telephone:</label><input type="text" name="tele"></div>
                <div><label>Mobile:</label><input type="text" name="mobile"></div>

                <button type="submit">Register</button>
                <button onclick="location.href='login.php'; return false ">Cancel</button>
            </form>
        </div>
        <hr>
        <footer>Site By: C20483514 2021</footer>
    </div>
</body>
</html>

```

Welcome to Kieran's Library

Register

Username:

Password:

Confirm Password:

Firstname:

Surname:

Address Line 1:

Address Line 2:

City:

Telephone:

Mobile:

Register

Cancel

Address Line 2:

City:

Telephone:

Mobile:

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6. Reserve.php

PHP page to view and/order delete reservations. The user is directed here when they click the view reserved books button on index.php or the reserve button in the result table on index.php. When a user presses the reserve button on index.php, the id of the book is sent to reserve.php where it is added to the reservations table in the database. It is then displayed in a table with pre-existing reservations. The user can delete their reservations from this table too

```
<?php
session_start();
require_once "database.php";
if (isset($_GET["book"])) {
    $ISBN = $_GET["book"];
    $un = $_SESSION["un"];
    $rdate = date('Y-m-d');
    $sql = "INSERT INTO Reservations (ISBN, Username, ReservedDate)
VALUES ('$ISBN', '$un', '$rdate')";
    if ($conn->query($sql) === TRUE) {
        echo "<script>alert('New Reservation Added')</script>";
        $sql = "UPDATE books SET Reserved = 'Y' WHERE ISBN = '$ISBN'";
        $conn->query($sql);
    }
    else {
        echo "Error: Reservation could not be completed";
    }
}

if(isset($_GET["remove"])) {
    $ISBN = $_GET["remove"];
    $sql = "DELETE FROM Reservations WHERE ISBN = '$ISBN'";
    if ($conn->query($sql) === TRUE) {
        echo "<script>alert('Reservation Deleted')</script>";
        $sql = "UPDATE books SET Reserved = 'N' WHERE ISBN = '$ISBN'";
        $conn->query($sql);
    }
    else {
        echo "Error: Reservation could not be deleted";
    }
}
```

```

<html>
  <head>
    <title>Reservations</title>
    <link rel="stylesheet" href="site.css">
  </head>

  <body id="bg">
    <div id="main1">
      <header>
        <br>
        <h1 id="main_heading">Welcome to Kieran's Library</h1>
        <br>
        <hr>
      </header>

      <div id="result">
        <?php
          $un = $_SESSION["un"];
          $sql= "SELECT * FROM books WHERE ISBN IN (SELECT ISBN FROM Reservations WHERE Username = '$un')";
          $result = $conn->query($sql);
          if ($result->num_rows > 0) {
            echo "<table border='1'>";
            echo "<thead>";
            echo "<tr><td>". "ISBN".
              "</td><td>". "BookTitle".
              "</td><td>". "Author".
              "</td><td>". "Edition".
              "</td><td>". "Year".
              "</td><td>". "CategoryID".
              "</td><td>". "Reserved".
              "</td></tr></tr>\n";
            echo "</thead>\n";

```

```

          //output data of each row
          while($row = $result->fetch_assoc()) {
            echo "<tr><td>";
            echo $row["ISBN"].
              "</td><td>". $row["BookTitle"].
              "</td><td>". $row["Author"].
              "</td><td>". $row["Edition"].
              "</td><td>". $row["Year"].
              "</td><td>". $row["CategoryID"].
              "</td><td>". "<td><button onclick='\".location.href=\"reserve.php?remove='.$row[\"ISBN\"].\"'; return false >Remove</button></td>\".
              "</tr>\n";
          }
          echo "</table>\n";
        }
        else {
          echo "0 results";
        }
      >
    </div>
    <div><button onclick='location.href="index.php?page=0"; return false'>Return to Main Page</button></div>
    <hr>
    <footer>Site By: C20483514 2021</footer>
  </div>
</body>
</html>

```

Welcome to Kieran's Library

ISBN	BookTitle	Author	Edition	Year	CategoryID	Reserved
093-403992	Computers in Business	Alicia Oneill	3	1997	3	<button>Remove</button>
23472-8729	Exploring Peru	Stephanie Birchi	4	2005	5	<button>Remove</button>
2983-3494	Cooking for children	Anabelle Sharpe	1	2003	7	<button>Remove</button>

[Return to Main Page](#)

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Design template done on pencil project (pencil.evolus.vn)

Welcome to Kieran's Library

Login

Lorem:

Ipsum:

Plain text

Welcome to Kieran's Library

Register

Lorem:

Ipsum:

Lorem:

Ipsum:

Lorem:

register

Plain text

Welcome to Kieran's Library

logout

Search

search

Radio button

Radio button

Radio button

Ipsum:

category

button

reservations

<input type="checkbox"/>	Column 2
<input checked="" type="checkbox"/>	Cell Content 1
<input type="checkbox"/>	Cell content 2
<input checked="" type="checkbox"/>	Cell content 3

Plain text

Welcome to Kieran's Library

Reservations

<input type="checkbox"/>	Column 2
<input checked="" type="checkbox"/>	Cell Content 1
<input type="radio"/>	Cell content 2
<input checked="" type="radio"/>	Cell content 3

return

Plain text