# Coursework 2 Documentation

Zlatomir Kosev – 4270699

Psyzk

# HTML

Html has been used within this project to allow me to insert text onto my webpages as well as help me create forms and inputs in which the users could enter data. These forms could then be linked to other languages such as PHP and JavaScript to change the functionality of the web pages as well as CSS to allow me to create a look which I thought was appropriate to the website. I used two main tags in my HTML file which were the "head" tag and the "body "tag. Inside the head file I kept important functions such as ones that I had created using JavaScript to manipulate how my page worked as well as dynamic HTML that could be linked throughout the pages.

Inside the body is where I used multiple more features to help me style the webpage. The body is also where I stored most my content for the website. This includes and is not limited to my Navigation bar as well as any tables.

**Features used within my webpage**:

<title> Title: Title tag used to name website tabs.

<style> Style: Style tag used to put CSS within the same file as object

<link> Link: Link tag used to connect to JS, CSS.

<section> Section: The section tag defines sections within my website.

<br> Brakes:  Used to insert a single line break.

<h> Headers: Used for giving titles to certain parts of the website.

<p> Paragraph: Used to declare paragraphs within webpage.

<div> Divisions: Creates dividers allowing me to split content

<script> Script: Script tags used to allow me to write JavaScript code.

<form> Forms: Form tag used for creating tables that can be accessed using PHP

<input> Input: Input tag used to allow me to pass arguments and access objects.

<tr><td><table> Table: Table tags used to create tables to store data in

<button>: Button: Button tag used for interacting with features within the website

<? php?> PHP: PHP tags used to allow me to write code that the website could recognise.

# CSS

CSS was used within my webpage to allow me to access the different features I had created with the HTML language and style it to my liking. CSS allowed me to create a general HTML form to use for every single webpage and then edit all of them by simply changing a couple of properties within the CSS files. My work contained two CSS files, One CSS file specifically for the PHP/HTML of the website, and one specifically for the login form I created and linked to my database. An example of where I had used CSS within my work would be the login page as well as once you log in the navigation bar and any colours / forms on the page.

**CSS features used within my webpage:**

font-family: used to set a general style to the webpage

text-align: Using different parameters allowed me to change how text was displayed within the webpage

background: Allowed me to choose a color to use for certain elements of the website

border: Allowed me to choose if to use a border for text boxes, etc.…

min-height/width: Allows to set a minimum scale the elements can be

height/width: sets a scale for parts of the website

position: Positions content respectively to what I put

margin-left/top/right/bottom: Choose whether to have a margin around content

left/right/top/bottom: Used for spacing

color: Set text color within elements of the website

font-size: Sets a font size for elements

line-height: Can change how close text is to each other/positioning wise.

cursor: Allows to change cursor when hovering over parts.

list-style-type: Change how navigation bar is displayed

hover: Allows me to change colours of elements when hovering over

# JavaScript

The main reason why I used JavaScript within my code was for validation within my forms, this can be performed on buttons as well as any forms I created. An example of where I have used JS within my work would be the login page, Using JavaScript I altered a box which allowed the user to close it early by the button I created. To test this, you could access the form and input wrong credentials. Other places I have used JavaScript is to verify if form boxes were left empty as well as to stop users from writing with text characters inside forms which should only contain numerical characters such as Price.

**JS features used within my website:**

Function: used to allow me to link to other elements of the page as well as write code inside.

If/else conditions : used to pinpoint certain events that could happen on forms.

Return: used to help with validation , for determining when cases either had to be true or false.

Fadeout(); Used to allow me to fade elements I added at a particular rate.

Hide(); allowed me to hide and show elements depending on what the users interaction was.

Appendto() : To insert HTML elements.

# PHP

PHP was used to create the interaction between my website and my database. For example, PHP, could be used to receive inputs from forms establish a connection to the database to modify those forms or add/delete features. PHP was also used to perform SQL searches on the database to allow me to display results to the browser. PHP also allowed me to code in a login application which does not let users enter the database unless

**PHP feature used within my website:**

$_POST: Used to receive the input entered in the HTML forms

$_GET: Used to receive input using the help of a button

If/else: For specific events within my website

Include: To link to other files such as the database connection one.

While: While loops used to fetch data

Isset: Check if the variable is set to null

Die: error handling and displaying to the user if there is an issue with a connection/etc…

Link: To reference to other files/webpages

Echo: Print out variables/tables

# SQL

Used to perform searches on the database when used in conjunction with PHP. An example of this would be delete, insert new records into the database.

SELECT: Used to select/display data

FROM: Selects tables to use

WHERE: Matches conditions to search for
INSERT: to add new data into the database
DELETE: for deleting data from the database
CONCAT: For merging values
COUNT: Used to count elements

# FILES

## home.php

```php
<?php

require_once 'PHP/constants.php';


//$sqlString = "SELECT COUNT(DISTINCT cd.cdID),COUNT(DISTINCT track.trackID),COUNT(DISTINCT artist.artID) FROM cd,track,artist;";
```

```php
if ($stmt = $dbcon->prepare("SELECT COUNT(DISTINCT cd.cdID),COUNT(DISTINCT
track.trackID),COUNT(DISTINCT artist.artID) FROM cd,track,artist;")) //used to count variables
{
    $stmt->execute();


    /* bind variables to prepared statement */
    $stmt->bind_result($cdNum,$trackNum,$artNum);


    /* fetch values */
    while ($stmt->fetch()) {
        //printf("%s %s %s \n", $cdNum,$trackNum,$artNum); //print out to test if it works
    }


    /* close statement */
    $stmt->close();
}


//$stmt = $sqlString;


//$stmt->execute();


//$stmt->bind_result($cdNum,$trackNum,$artNum);
//$stmt->fetch();
?>


<!DOCTYPE html>
<html>
    <head>
        <header>
            Coursework 2
```

```html
        </header>

        <title>Home</title>

        <link rel="stylesheet" type="text/css" href="CSS/main.css">

        <style>

            table,tr,th,td

            {

                border: 1px solid black;

            }

        </style>

    </head>

    <body>

        <?php include "PHP/header.php"; ?>


        <section>

            <div id="content">

            <h2>Database Metrics</h2>

            <p>Number of Artists: <?php echo htmlentities($artNum);?></p>

                <p>Number of CDs: <?php echo htmlentities($cdNum);?></p>

                <p>Number of Tracks: <?php echo htmlentities($trackNum);?></p>

            </div>

        </section>

    </body>

</html>
```

artistpage.php

```php
<?php


if(isset($_POST['search'])) //check to see if button pressed

{

    $valueToSearch = $_POST['valueToSearch'];

    // search in all table columns

    $query = "SELECT * FROM `artist` WHERE CONCAT(`artID`, `artName`) LIKE
'%".$valueToSearch."%'"; // search for all values to begin with , then whatever input into search bar
```

```php
    $search_result = filterTable($query);   //Search table


}
 else {

   $query = "SELECT * FROM `artist`";  //All values

   $search_result = filterTable($query);

}


// function to connect and execute the query

function filterTable($query)

{

   $connect = mysqli_connect("localhost", "root", "", "psyzk");

   $filter_Result = mysqli_query($connect, $query);

   return $filter_Result;

}


if(isset($_POST['delete'])){

   $delete = $_POST['delete'];

   $deletequery = "DELETE FROM artist WHERE artID =".$delete."";   // delete button matches the id
of the row to the id in the database and deletes it

   $del = filterTable($deletequery);

   header("location: artistpage.php"); //transfers to page

}
```

```php
?>
```

```html
<!DOCTYPE html>

<html>
```

```html
<head>

  <header>

    Coursework 2

  </header>

  <title>Artists</title>

  <link rel="stylesheet" type="text/css" href="./CSS/main.css">


  <script>




    function SearchValidation(){

      var x=document.forms["SearchForm"]["valueToSearch"].value;

      if(x==null||x==""){ //JS checks if box is empty

        alert("Search cannot be empty");

      }


    }




  </script>

</head>

<body>

    <?php include "PHP/header.php"; ?>  <!-- Main style include -->

  <section>

    <h3 style="font-size: 50px;">Artists Database</h3>

     <form name="SearchForm" onsubmit="SearchValidation()" action="artistpage.php"
method="post">
```

```html
        <input type="text" name="valueToSearch" placeholder="Search Value"><br><br>

        <input type="submit" name="search" value="Search"><form>

        <input type="button" value="Reset Search" onclick="window.location.href='artistpage.php'"
/>

    </form><br><br>

      <h1>Artists in Database:</h1>

      <table>

        <tr>

          <th>artID</th>

          <th>artName</th>

          <th>Alter Contents</th>

        </tr>


    <!-- populate table from mysql database + row by row search -->

        <?php while($row = mysqli_fetch_array($search_result)):?>

        <tr>

          <td><?php echo $row['artID'];?></td>

          <td><?php echo $row['artName'];?></td>

          <td>

          <form method='POST'>

            <button value = "<?php echo $row['artID'] ?>" name ='delete'> <!--Row is the id of
artID--> Delete </button>

              </form>

            </td>

        <?php endwhile;?>

      </table>

    </form>

      <br>

   <form>

      <input type="button" value="Add Artist" onclick="window.location.href='PHP/addartist.php'"
/>

    </form>
```

```
        </section>



    </body>

</html>
```

albumspage.php

```php
<?php


if(isset($_POST['search']))

{

    $valueToSearch = $_POST['valueToSearch'];

    // search in all table columns

    // using concat mysql function

    $query = "SELECT * FROM `cd` WHERE CONCAT(`cdID`, `cdTitle`, `cdPrice`, `cdGenre`) LIKE
'%".$valueToSearch."%'";

    $search_result = filterTable($query);



}

 else {

    $query = "SELECT * FROM `cd`";

    $search_result = filterTable($query);

}



if(isset($_POST['delete'])){

    $delete = $_POST['delete'];

    $deletequery = "DELETE FROM cd WHERE cdID =".$delete."";

    $del = filterTable($deletequery);

    header("location: albumspage.php");

}

// function to connect and execute the query

function filterTable($query)

{
```

```php
    $connect = mysqli_connect("localhost", "root", "", "psyzk");

    $filter_Result = mysqli_query($connect, $query);

    return $filter_Result;

}


?>
```

```html
<!DOCTYPE html>
<html>
  <head>
     <header>
        Coursework 2
     </header>
     <title>Albums</title>
     <link rel="stylesheet" type="text/css" href="CSS/main.css">
     <script>




    function SearchValidation(){
      var x=document.forms["SearchForm"]["valueToSearch"].value;
      if(x==null||x==""){
         alert("Search cannot be empty");
    }
     }




     </script>
  </head>
```

```html
<body>

    <?php include "PHP/header.php"; ?>

  <section>

    <h3 style="font-size: 50px;">Albums Database</h3>

     <form name="SearchForm" onsubmit="SearchValidation()" action="albumspage.php"
method="post">

      <input type="text" name="valueToSearch" placeholder="Search Value"><br><br>

      <input type="submit" name="search" value="Search"><form>

      <input type="button" value="Reset Search"
onclick="window.location.href='albumspage.php'" />

        <div id='errorArea'>


                            </div>

  </form><br><br>

      <h2>Albums in Database:</h2>

    <table>

      <tr>

        <th>cdID</th>

        <th>cdTitle</th>

        <th>cdPrice</th>

        <th>cdGenre</th>

        <th>Alter Contents</th>

      </tr>


  <!-- populate table from mysql database -->

      <?php while($row = mysqli_fetch_array($search_result)):?>

      <tr>

        <td><?php echo $row['cdID'];?></td>

        <td><?php echo $row['cdTitle'];?></td>

        <td><?php echo $row['cdPrice'];?></td>

        <td><?php echo $row['cdGenre'];?></td>

        <td>
```

```html
            <form method='POST'>

                <button value = "<?php echo $row['cdID'] ?>" name ='delete'> Delete </button>

                </form>

              </td>

            </tr>

            <?php endwhile;?>

        </table>

      </form>

        <br>

      <form>

        <input type="button" value="Add CD" onclick="window.location.href='PHP/addalbum.php'"
/>

      </form>

      </section>




   </body>

</html>
```

trackspage.php
```php
<?php


if(isset($_POST['search']))

{

   $valueToSearch = $_POST['valueToSearch'];

   // search in all table columns

   // using concat mysql function

   $query = "SELECT * FROM `track` WHERE CONCAT(`trackID`, `cdID`, `trackTitle`, `trackDuration`)
LIKE '%".$valueToSearch."%'";

   $search_result = filterTable($query);


}

 else {
```

```php
    $query = "SELECT * FROM `track`";

    $search_result = filterTable($query);

}


if(isset($_POST['delete'])){

    $delete = $_POST['delete'];

    $deletequery = "DELETE FROM track WHERE trackID =".$delete."";

    $del = filterTable($deletequery);

    header("location: trackspage.php");

}
// function to connect and execute the query
function filterTable($query)

{

    $connect = mysqli_connect("localhost", "root", "", "psyzk");

    $filter_Result = mysqli_query($connect, $query);

    return $filter_Result;

}


?>


<!DOCTYPE html>
<html>
    <head>
        <header>
            Coursework 2
        </header>
        <title>Tracks</title>
        <link rel="stylesheet" type="text/css" href="CSS/main.css">
        <script>
```

```
function SearchValidation(){

  var x=document.forms["SearchForm"]["valueToSearch"].value;

  if(x==null||x==""){

    alert("Search cannot be empty");

}

}
```

```html
    </script>

  </head>

  <body>


    <?php include "PHP/header.php"; ?>

  <section>

    <h3 style="font-size: 50px;">Tracks Database</h3>

    <form name="SearchForm" onsubmit="SearchValidation()" action="trackspage.php"
method="post">

    <input type="text" name="valueToSearch" placeholder="Search Value"><br><br>

    <input type="submit" name="search" value="Search"><form>

    <input type="button" value="Reset Search"
onclick="window.location.href='albumspage.php'" />

  </form><br><br>

      <h2>Tracks in Database:</h2>

    <table>

      <tr>

        <th>trackID</th>

        <th>cdID</th>

        <th>trackTitle</th>

        <th>trackDuration</th>
```

```html
            <th>Alter Contents</th>
        </tr>

    <!-- populate table from mysql database -->
        <?php while($row = mysqli_fetch_array($search_result)):?>
        <tr>
          <td><?php echo $row['trackID'];?></td>
          <td><?php echo $row['cdID'];?></td>
          <td><?php echo $row['trackTitle'];?></td>
          <td><?php echo $row['trackDuration'];?></td>
          <td>
          <form method='POST'>
            <button value = "<?php echo $row['trackID'] ?>" name ='delete'> Delete </button>
            </form>
          </td>
        </tr>
        <?php endwhile;?>
      </table>
    </form>
      <br>
     <form>
       <input type="button" value="Add Track" onclick="window.location.href='PHP/addtrack.php'"
/>
     </form>
     </section>



  </body>
</html>
```

## login.css

```css
body{
    font-family: helvetica, arial, sans-serif;
}


#login{
    text-align: center;
    background: #e3e3e3;
    border: 1px solid #CFCFCF;
    min-height: 330px;
    height: 330px;
    width: 705px;
    position: absolute;
    left: 50%;
    margin-left: -352px;
    top: 50%;
    margin-top: -165px;
}
h2{
    padding: 15px 0 15px 75px;
    padding-left: : 38px;
    margin-top: 25px;
    font-size: 45px;
    background: #BFBFBF;
    color: #000000;
    border-top: 1px solid #9F9F9F;
    width: 676px;
    height: 73px;
    position:relative;
    left: -23px;
}
```

```css
label {

    font-size: 24px;

}


input{

    width: 40%;

    height: 30px;

    position: relative;

    top: -4px;

    font-size: 20px;

    padding: 0;

    color: #555555;

}


input#submit{

    width: 15%;

    font-size: 14px;

}


small{

    font-size: 16px;

    position: relative;

    top: -4px;

}


h4 {

    color: #5F5F5F;

    font-size: 23px;

}
```

```css
h4.alert{

    background-color: #bfbfbf;

    width: 80%;

    margin-left: auto;

    margin-right: auto;

    padding: 8px;

    border: 1px dotted white;

    font-size: 19px;

    line-height: 19px;

    position: relative;

}


span.exit{

    position: absolute;

    top: 0;

    right: 0;

    background: #6361DF;

    color: #292929;

    font-size: 15px;

    line-height: 14px;

    font-weight: bold;

    padding: 0.3;

    cursor: pointer;

    border-left: 1px dotted white;

    border-bottom: 1px dotted white;

}
```

main.css
```css
@import url(https://fonts.googleapis.com/css?family=PT+Serif);

html, body {

    font-family: 'PT Serif', serif;

    margin: 0px;
```

```css
    width: 100%;

    height:100%;

    background-color:rgba(34, 34, 34, 0.99);

}

header{

    font-size:60px;

    color:#d94a28;

    text-align: center;

    letter-spacing: 13px;

    margin:0px 0px 50px px;

    background-image: url("https://s-media-cache-
ak0.pinimg.com/originals/23/76/88/2376889a54bcb228b38f089ea2fe85a3.png");

    background-position:124px;

    background-size:cover;


    }

ul {

    list-style-type:none;

    margin-top: 0px;

    padding: 0px;

    width: 100%;

    background-color: rgba(186, 73, 23, 0.99);

    overflow: hidden;

    border-bottom-left-radius: 100px;

    border-bottom-right-radius: 100px;

    font-size: 22px;


    }


li a {
```

```css
    position: fixed, center;

    float: left;

    width: 19.6%;

    color: rgba(0, 0, 0, 0.99);

    padding: 20px 0px;

    text-decoration: none;

    border-right:solid 1px #000;

    border-left: 1.98px solid #d94a28;


}


/* Change the link color on hover */

    li a:hover {

    background-color: #d94a28;

    color: white;


}


section {

    margin-left:12.5%;

    margin-right:12.5%;

    background-color:#272727;

    color:#c1c3c7;

    padding-bottom:50px;

    font-size: 20px;

    margin-bottom: 30px;

}


table {

    border-collapse: collapse;

    border: 1px solid #151515;
```

```css
        width: 100%;

}


th, td {

    padding: 8px;

    text-align: left;

    border-bottom: 1px solid #ddd;

    border: 1px solid #151515;

}


tr:hover{background-color:#363636}
```

## main.js

```js
$(function() {

    $('h4.alert').hide().fadeIn(700);

    $('<span class="exit">X</span>').appendTo('h4.alert');


    $('span.exit').click(function() {

        $(this).parent('h4.alert').fadeOut('slow');

    });

});
```

## addalbum.php

```php
<?php

require_once 'constants.php';

$dbcon = mysqli_connect(DB_SERVER, DB_USER, DB_PASSWORD, DB_NAME);

$newrecord = "";

if(isset($_POST['submitted'])) {

    $artID = $_POST['artID'];

    $cdTitle = $_POST['cdTitle'];

    $cdPrice = $_POST['cdPrice'];

    $cdGenre = $_POST['cdGenre'];

    $sqlinsert = "INSERT INTO cd (artID,cdTitle,cdPrice,cdGenre) VALUES ('$artID','$cdTitle','$cdPrice','$cdGenre')";
```

```php
    if(!mysqli_query($dbcon, $sqlinsert)) {

        die('error inserting new record');

    }

        $newrecord = "1 record added to the database";

}


?>
```

```html
<html>

  <head>

     <header>

        Coursework 2

     </header>

     <title>Albums</title>

     <link rel="stylesheet" type="text/css" href="../CSS/main.css">

     <style>

        table,tr,th,td

        {

           border: 1px solid black;

        }

     </style>



     <script>


        function AddArtistValidation(){

        var x=document.forms["AddAlbum"]["artID"].value;

        if(x==null||x==""){

           alert("Search cannot be empty");

      }
```

```html
            }



        </script>



    </head>

    <body>

        <?php include "header.php"; ?>

        <section>

         <h1>Add New Album</h1>

        <form name = "AddAlbum" onsubmit="AddAlbumValidation()" method="post"
action="addalbum.php">

        <input type="hidden" name="submitted" value="true"/>

            <fieldset>

            <legend>New Album</legend>

            <label>artID: <input type="text" name="artID"/></label>

                <br>

            <label>cdTitle: <input type="text" name="cdTitle"/></label>

                <br>

            <label>cdPrice: <input type="text" name="cdPrice" onkeypress='return event.charCode >= 46
&& event.charCode <= 57'></label>

                <br>

            <label>cdGenre: <input type="text" name="cdGenre"/></label>

            </fieldset>

            <br>

            <input type="submit" value="Add Album"/>

        </form>

<form>

        <input type="button" value="Return to Albums Page"
onclick="window.location.href='../albumspage.php'" />

        </form>
```

```
        </section>


        <?php

        echo $newrecord;

        ?>


    </body>


</html>
```

## addartist.php

```php
<?php

require_once 'constants.php';

$dbcon = mysqli_connect(DB_SERVER, DB_USER, DB_PASSWORD, DB_NAME);

$newrecord = "";

if(isset($_POST['submitted'])) {

    $artName = $_POST['artName'];

    $sqlinsert = "INSERT INTO artist (artName) VALUES ('$artName')";


    if(!mysqli_query($dbcon, $sqlinsert)) {

        die('error inserting new record');

    }

        $newrecord = "1 record added to the database";

}


?>

<html>

    <head>

        <header>

            Coursework 2

        </header>

        <title>Artists</title>
```

```html
<link rel="stylesheet" type="text/css" href="../CSS/main.css">
<style>

  table,tr,th,td

  {

    border: 1px solid black;

  }

</style>
<script>


  function AddArtistValidation(){

   var x=document.forms["AddArtist"]["artName"].value;

   if(x==null||x==""){

     alert("Search cannot be empty");

 }

  }



</script>
</head>
<body>

  <?php include "header.php"; ?>

  <section>

   <h1>Add New Artist</h1>

   <form name= "AddArtist" onsubmit="AddArtistValidation()" method="post"
action="addartist.php">

   <input type="hidden" name="submitted" value="true"/>

    <fieldset>

    <legend>New Artist</legend>

    <label>Artist Name: <input type="text" name="artName"/></label>

    </fieldset>

    <br>
```

```
            <input type="submit" value="Add Artist"/>

        </form>

         <form>

            <input type="button" value="Return to Artist Page"
onclick="window.location.href='../artistpage.php'" />

        </form>

            <?php

        echo $newrecord;

        ?>

        </section>


    </body>


</html>
```

## addtrack.php

```php
<?php

require_once 'constants.php';

$dbcon = mysqli_connect(DB_SERVER, DB_USER, DB_PASSWORD, DB_NAME);

$newrecord = "";

if(isset($_POST['submitted'])) {

    $cdID = $_POST['cdID'];

    $trackTitle = $_POST['trackTitle'];

    $trackDuration = $_POST['trackDuration'];

    $sqlinsert = "INSERT INTO track (cdID,trackTitle,trackDuration) VALUES
('$cdID','$trackTitle','$trackDuration')";


    if(!mysqli_query($dbcon, $sqlinsert)) {

        die('error inserting new record');

    }

        $newrecord = "1 record added to the database";

}
```

```
?>
<html>
  <head>
     <header>
        Coursework 2
     </header>
     <title>Add Track</title>
     <link rel="stylesheet" type="text/css" href="../CSS/main.css">
     <style>
        table,tr,th,td
        {
           border: 1px solid black;
        }
     </style>
  </head>
  <body>
     <?php include "header.php"; ?>
     <section>
       <h1>Add New Track</h1>
     <form method="post" action="addtrack.php">
     <input type="hidden" name="submitted" value="true"/>
        <fieldset>
        <legend>New Track</legend>
        <label>cdID <input type="text" name="cdID"/></label>
           <br>
        <label>trackTitle: <input type="text" name="trackTitle"/></label>
           <br>
        <label>trackDuration: <input type="text" name="trackDuration"onkeypress='return
event.charCode >= 48 && event.charCode <= 57'/></label>
        </fieldset>
        <br>
```

```html
        <input type="submit" value="Add Track"/>

    </form>

    <form>

        <input type="button" value="Return to Tracks Page"
onclick="window.location.href='../trackspage.php'" />

    </form>

    </section>

    <?php

    echo $newrecord;

    ?>


    </body>


</html>
```

## constants.php

```php
<?php


// Definining constants


define('DB_SERVER', 'localhost');

define('DB_USER', 'root');

define('DB_PASSWORD','');

define('DB_NAME', 'psyzk');


$dbcon = mysqli_connect(DB_SERVER, DB_USER, DB_PASSWORD, DB_NAME);

?>
```

## header.php

```php
<?php


require_once 'Membership.php';

$membership = new Membership();
```

```php
$membership->confirm_Member();

?>
```

```html
<html>
  <head>
     <title> DBI Coursework 2</title>
     <link rel="stylesheet" type="text/css" href="../CSS/main.css">
     <style>
</style>

  </head>
  <body>
      <div class="banner"></div>
    <center> <ul>
      <li><a style="width: 19.6%;"
href="http://localhost/ActualCoursework/home.php">Home</a></li>
      <li><a style="width: 19.6%;"
href="http://localhost/ActualCoursework/artistpage.php">Artist</a></li>
      <li><a style="width: 19.6%;"
href="http://localhost/ActualCoursework/albumspage.php">Albums</a></li>
      <li><a style="width: 19.6%;"
href="http://localhost/ActualCoursework/trackspage.php">Tracks</a></li>
      <li><a style="width: 19.6%;"
href="http://localhost/ActualCoursework/PHP/login.php?status=loggedout">Log Out</a></li>
    </ul> </center>


  </body>
</html>
```

login.php

```php
<?php
session_start();
require_once 'Membership.php';
```

```php
$membership = new Membership();


if(isset($_GET['status']) && $_GET ['status'] == 'loggedout') {

    $membership->log_User_Out();

}


if($_POST && !empty($_POST['username']) && !empty($_POST['pwd'])) {

    $response = $membership->validate_User($_POST['username'], $_POST['pwd']);

}
?>
```

```html
<html>

    <head>

        <title>Login to access database</title>

        <link rel="stylesheet" type="text/css" href="../CSS/login.css">

        <script type = "text/javascript" src=
"https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>

        <script type="text/javascript" src="../JS/main.js"></script>


        <script>


        function submitFunction(){

            var x=document.forms["myForm"]["username"].value;

            var y=document.forms["myForm"]["pwd"].value;

            if(x==null||x==""||y==null||y==""){

                alert("Fields can not be left empty");

    }

        </script>


    </head>

    <body>
```

```html
    <div id="login">

    <form name="myForm" onsubmit="submitFunction()" method="post" action="">
        <h2>Login<small> Enter your account details</small></h2>
        <p>
            <label for="name">Username:</label>
            <input type="text" name="username"/>
        </p>
        <p>
            <label for="pwd">Password:</label>
            <input type="password" name="pwd"/>
        </p>
        <p>
            <input type="submit" id="submit" value="Login" name="submit"/>
        </p>
    </form>
    <?php if(isset($response)) echo "<h4 class='alert'>" . $response . "</h4>"; ?>
    </div>
  </body>
</html>
```

```php
<?php

require 'Mysql.php';

class Membership {

    function validate_user($un,$pwd) {
        $mysql = New Mysql();
        $ensure_credentials = $mysql->verify_Username_and_Pass($un, md5($pwd));
        if($ensure_credentials) {
```

```php
            $_SESSION['status'] = 'authorized';

            header("location: ../home.php");

        } else return "Please enter a correct username and password";


    }



    function log_User_Out() {

        if(isset($_SESSION['status'])) {

            unset($_SESSION['status']);

            if(isset($_COOKIE[session_name()]))

                setcookie(session_name(),'',time() - 10000);

            session_destroy();

        }

    }


function confirm_Member() {

    session_start();

    if($_SESSION['status'] !='authorized') header("location: PHP/login.php");

}


}
?>
```

Mysql.php

```php
<?php



require_once 'constants.php';



class Mysql {
```

```php
    private $conn;

    function __Construct(){
        $this->conn = new mysqli(DB_SERVER, DB_USER, DB_PASSWORD, DB_NAME) or die('Problem
establishing a connection to the database.');
    }

    function verify_Username_and_Pass($un,$pwd) {

        $query = "Select *
            FROM users
            WHERE username = ? AND password = ?
            LIMIT 1";

        if($stmt = $this->conn->prepare($query)) {
            $stmt->bind_param('ss',$un,$pwd);
            $stmt->execute();

            if($stmt->fetch()){
                $stmt->close();
                return true;
            }
        }
    }

}
?>
```