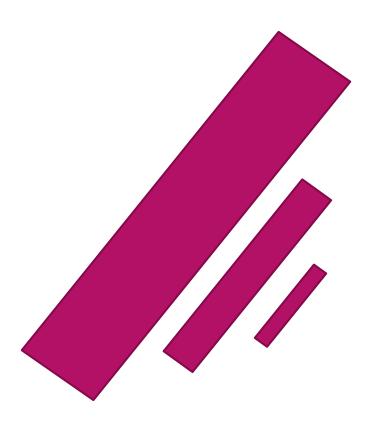


WEB
DEVELOPMENT
PROJECT

# Reedam Pokharel



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#### HTML FEATURES

Below are all the HTML tags and other features I have used throughout my project:

- 1.1- <a href="1.1">1.1- <a href=
- 1.2- <head> tag is used as a container for various head elements such as the title for the document, scripts, styles, link etc... which are all elements I have used.
- 1.3- <title> tag defines the title of the document in the browser toolbar.
- 1.4- <script> tag is used to define a client-side script, and throughout my project, it points to an external script called "js.js" through the src attribute. The external script contains form validation if the webpage requires it.
- 1.5
- 1.6- <body> tag contains all the visible contents such as texts, hyperlinks, tables etc..
- 1.7- <header> tag is used as a container for my navigation bar at the top of the page.
- 1.8- <h1> tag is used to define the main HTML heading, which in this project is the page title displayed above the navigation bar.
- 1.9- <h2> tag is used in the homepage.php document to define the a subheading.
- 1.10- tag defines an unordered list. The list of main pages the user can navigate to from the navigation bar.
- 1.11- tag is used to represent an item in a list, such as the different webpages- Home, Artists, Albums, Tracks.
- 1.12- <a> tags define a hyperlink which links the list item with the specific webpage. The href attribute indicates the link's destination.

- 1.13- <section> tag defines sections in a document, I have used this in the homepage.php document alongside an id selector to format the tags used inside this tag with CSS.
- 1.14- <form> tag is used for creating a form for user input. Contains different attributes such as action which specifies where to send the form data to when the form is submitted e.g. some forms specify another webpage while others simply have a "" so the page refreshes. The method attribute specifies the HTTP method to use when sending the form data e.g. "get" for sending the form data as URL variables and "post" for sending the form as HTTP post transaction. The onsubmit is an event attribute which executes a javascript function used for form validation for that specific form.
- 1.15- tag defines a table consisting of elements in order to make the form.
- 1.16- tag defines the separate input fields.
- 1.17- tag defines a table cell, for each separate input fields, one tag is used to tell the user which data to input (e.g. the duration of the track, the title of the album etc.) and another tag is used as an input field.
- 1.18- <input> tag specifies an input field where the user can enter data using text input. Different attributes for this tag throughout the webpages include: id selector for design formatting; name attribute to allow javascript functions to get the element for validation; type attribute to only allow the user to input a certain data type for validation (the step, min and max attributes are also used in conjunction with type="number" to specify the minimum and maximum value the user can input); value attribute to place a value in the input field (used for the "edit" pages to already set the value of the specific artist, album or track the user wishes to edit).
- 1.19- <select> tag is used to create a drop-down list e.g. for finite artists, albums or tracks.
- 1.20- <option> tag is used inside the select tag to define an option, this is used in conjunction with PHP to display the different options.

#### CSS FEATURES

Below are all the CSS features I have used throughout my project:

- 2.1- ID/Classes- these selectors were used to specifically define attributes. The ID selector was used to define just one element while the class selector was used to identify more than one.
- 2.2- font- Specifies all font properties in one declaration (the size, the font family etc.)
- 2.3- font size- Sets the font size
- 2.4- margin- this is used to specify the space outside an element e.g. In the body tag, margin: 0 is used to remove the space around the page so the whole page fits the browser perfectly without any spacings from the edge of the body tag to the browser edge.
- 2.5- text align- This property specifies the horizontal alignment of a text in an element
- 2.6- background color- Sets the background colour of an element. Throughout my program, the main colour themes are light blue (#32a0c2) and dark grey (#353637).
- 2.7- border- This property is used to specify the different styles of an element's border.
- 2.8- text transform- Used to transform the texts of the element to uppercase.
- 2.9- text-decoration- Used to remove the underline of an element.
- 2.10- display- Specifies the display behaviours of an element, inline is used for a side-by-side layout of the navigation bars.
- 2.11- font weight- Specifies how thick or thin characters in texts should be displayed.

- 2.12- left/right/bottom/top- Sets the left/right/bottom/top edge of an element to the specified pixel amount from its relative edge.
- 2.13- background- Sets all background properties in one declaration, the url is used to specify the file path containing the background image for that specific webpage.
- 2.14- opacity- The transparency of an element.
- 2.15- height/width- Sets the height/width of an element.

#### PHP FEATURES

Below are all the PHP features I have used throughout my project:

- 3.1- include was used to import files containing the connection routine to connect to my database.
- 3.2- mysqli connection- was used to connect to my database.
- 3.3- if/else/ while- these constructs were used in order to execute if only a certain condition was met.
- 3.4- die- this function was used to print a message and then exit the current script if the database failed to connect.
- 3.5- mysqli\_connect\_error this function returns an error description if there is a connection error.
- 3.6- mysqli\_query- Allows a database to be queried, by taking in the sql query as a parameter.
- 3.7- mysqli\_num\_rows- Returns the number of rows from an sql query, used to get the number of artists, albums and tracks for the homepage as well as to get the tracks counter for the albums page.

- 3.8- Echo This was used in conjunction with HTML tags in order to insert and display tables in the webpage inside a PHP script within the document. HMTL tags 1.15 to 1.17 would be used to create and display a table containing data extracted from the database.
- 3.9- isset- Used to determine whether a button for a form was clicked or not.

#### JAVASCRIPT FEATURES

Below are all the Javascript features I have used throughout my project:

- 4.1- functions were called and used to validate different forms e.g. validateaddalbum() was called to validate the form in the addalbum.php document.
- 4.2- document.getElementByID- this method returns the element that has the specific ID attribute and used to manipulate the element.
- 4.3- .focus- This method triggers the focus event and is used whenever the input field is empty, so it can hint to the user to fill the input field.
- 4.4- .style.border- Sets up border properties, and is used to highlight the border of the input field red whenever the input field is empty.

#### MYSQL FEATURES

Below are all the Javascript features I have used throughout my project:

- 5.1- SELECT statement selects data from a database, the results of which are stored in a table.
- 5.2- WHERE clause I needed to put this clause in when specific queries needed executing, such as selecting albums only by a specific artist.
- 5.3- AND/OR operators I used OR with search queries to search for multiple columns rather than one single column. AND was used within the WHERE clause for joining multiple columns with multiple tables, such as artist names and CD titles with the tracks table.
- 5.4- UPDATE statement used to update a table when adding a record, such as a new track.
- 5.5- DELETE statement used to delete a record.
- 5.6- LIKE operator used in search bar queries to select certain records which include data that matches the string operand passed.

## APPENDIX

## Homepage.php

<?php include

'connect.php';

?>

<!DOCTYPE html>

```
<html>
<head>
 <title>Home : Music Library</title>
 <link rel="stylesheet" href="./css/style.css">
</head>
<body id="homepagebody">
 <header>
  <h1> Home</h1>
   <a href="homepage.php"> Home </a> 
   <a href="artistpage.php"> Artists </a> 
   <a href="albumspage.php"> Albums </a> 
   <a href="trackspage.php"> Tracks </a> 
  </header>
 <section id="homepagemid">
  <h2> Database Metrics</h2>
  <?php
  $resultsartist=mysqli_query($connection,"SELECT * FROM artist");
                                                             $artrows =
mysqli_num_rows($resultsartist);
```

```
$resultsalbums=mysqli_query($connection,"SELECT * FROM album");
$albrows = mysqli_num_rows($resultsalbums);
   $resultstracks=mysqli_query($connection,"SELECT * FROM tracks");
   $trarows = mysqli_num_rows($resultstracks);
   ?>
<h2 id="artistcounttag">
   <section id="midbullets">
    Number of Artists: <?php echo "<font size='10px' color='white' font-style='text-align:right'</pre>
> $artrows\n"; ?> 
     Number of Albums: <?php echo "<font size='10px' color='white' font-style='text-align:right'</li>
> $albrows\n"; ?> 
     Number of Tracks: <?php echo "<font size='10px' color='white' font-style='text-align:right'</pre>
> $trarows\n"; ?> 
    </section>
  </section>
 </body>
</html>
Artistpage.php
<?php include
'connect.php';
?>
<!DOCTYPE html>
<html>
```

```
<head>
 <title>Artists: Music Library</title>
 <link rel="stylesheet" href="./css/style.css">
</head>
<body id="artistpagebody">
 <header>
  <h1> Artists</h1>
  <a href="homepage.php"> Home </a> 
    <a href="artistpage.php"> Artists </a> 
   <a href="albumspage.php"> Albums </a> 
   <a href="trackspage.php"> Tracks </a> 
  </header>
 <form class="searchbar" action="artistpage.php" method="post">
  <input type="text" name="search" placeholder="Search..." class="searchboxdesign">
</form>
 <a href="addartistpage.php" class="button"> Add Artist</a>
 <?php
 $originaltable=mysqli_query($connection,"SELECT * FROM artist ORDER BY artID ASC");
if(isset($_POST['search'])){ //If searched
  $searchq=$_POST['search'];
```

```
$searchresults=mysqli_query($connection,"SELECT * FROM artist WHERE artName LIKE
'%$searchq%' ORDER BY artID ASC");
(mysqli_num_rows($searchresults)>0){ //If more than one row returned
showtable($searchresults);
  }
  else{ //If no results
                      echo
"<h2>No Results</h2>";
  }
 }
 else{
showtable($originaltable);
 }
 function showtable($table){ echo "<table border='3' table width='37%' table
style='background-color:#32a0c2'>";
  echo "Artist IDArtist Title Actions
 ";
            if (mysqli_num_rows($table)>0){ //If
not searched
while($row=mysqli_fetch_array($table)){
    echo " {$row[0]}  {$row[1]}  <a
href='editartistpage.php?id=$row[0]'> Edit <a href='specificalbumpage.php?id=$row[0]'>
Albums ";
   }
  }
 }
 ?>
</body>
</html>
```

Addartistpage.php

```
<?php include
'connect.php';
<!DOCTYPE html>
<html>
<head>
  <title>Add Artists : Music Library</title>
  <script src="js.js"> </script>
  <link rel="stylesheet" href="./css/style.css">
</head>
<body id="addartistbody">
  <header>
   <h1> Add Artist</h1>
   <a href="homepage.php"> Home </a> 
   <a href="artistpage.php"> Artists </a> 
   <a href="albumspage.php"> Albums </a> 
    <a href="trackspage.php"> Tracks </a> 
   </header>
 <form class="addartistpagebar" action="" method="POST" onsubmit="return</pre>
validateartistname()">
```

```
<input id="addartistnamebox" type ="text" name="name" placeholder="Add an Artist..."
class="addartistpagebardesign">
   <input id="editaddbuttontext" value="Submit" type="submit" name="submitname">
</form>
           if (isset($_POST['submitname'])){
                                           $Name=$_POST['name'];
  <?php
(!mysqli_query($connection,"INSERT INTO artist (artName) VALUES ('$Name')"))
    {
     die("<h3>Artist already exists<h3>");
    }
   echo "<h3>Artist added<h3>";
  }
  ?>
</body>
</html>
```

## Editartistpage.php

```
<script src="js.js"> </script>
  <link rel="stylesheet" href="./css/style.css">
</head>
<body id="editartistbody">
  <header>
  <h1> Edit Artist</h1>
  <a href="homepage.php"> Home </a> 
   <a href="artistpage.php"> Artists </a> 
   <a href="albumspage.php"> Albums </a> 
   <a href="trackspage.php"> Tracks </a> 
  </header>
  <?php
  $id=$_GET['id'];
  $query=mysqli_query($connection,"SELECT artName FROM artist WHERE artID='$id'");
  $row=mysqli_fetch_array($query);
  $name=$row[0];
  if (isset($_POST['add'])){
   $newname=$_POST['editname'];
                                    if (!mysqli_query($connection,"UPDATE artist SET
artName='$newname' WHERE artID='$id'"))
    {
     echo "<h3>Artist already exists!</h3>";
```

```
}
else{
     echo "<h3>Artist edited</h3>";
   }
   }
   if (isset($_POST['delete'])){
    $name=$_POST['editname'];
    $query=mysqli_query($connection,"SELECT artName FROM artist WHERE artName='$name'");
$rows=mysqli_num_rows($query);
    if ($rows!=0){
     if (!mysqli_query($connection,"DELETE FROM artist WHERE artName='$name'"))
      {
      echo'<Error: ';
      }
else{
       echo "<h3>Artist deleted</h3>";
      }
}
else{
echo
"<h3>Art
ist
already
deleted
or does
```

```
not
exist</h

3>";

}

?>

<form class="addartistpagebar" action="" method="POST" onsubmit="return validateartistname()">

<input id="addartistnamebox" type ="text" name="editname" value="<?=$name?>" class="addartistpagebardesign">

<input id="editaddbuttontext" value="Edit" type="submit" name="add">

<input id="deletebutton" type="submit" value="Delete" name="delete">

</form>

</body>
</html>
```

## Albumspage.php

```
<?php include
'connect.php';
?>
<!DOCTYPE html>
```

```
<html>
<head>
 <title>Albums : Music Library</title>
 <link rel="stylesheet" href="./css/style.css">
</head>
<body id="albumpagebody">
 <header>
  <h1> Albums</h1>
  <a href="homepage.php"> Home </a> 
   <a href="artistpage.php"> Artists </a> 
    <a href="albumspage.php"> Albums </a> 
   <a href="trackspage.php"> Tracks </a> 
  </header>
 <form class="searchbar" action="albumspage.php" method="post">
  <input type="text" name="search" placeholder="Search..." class="searchboxdesign">
</form>
 <a href="addalbumpage.php" class="button"> Add Album</a>
 <?php
```

\$originaltable=mysqli\_query(\$connection,"SELECT cdID, artName, cdTitle, cdPrice, cdGenre, cdNumTracks FROM album,artist WHERE artist.artID = album.artID ORDER BY cdID ASC");

```
if(isset($_POST['search'])){
  $searchq=$_POST['search'];
  $searchresults=mysqli_query($connection,"SELECT cdID, artName, cdTitle, cdPrice, cdGenre,
cdNumTracks FROM album, artist WHERE artist.artID = album.artID AND cdTitle LIKE
'%$searchq%'ORDER BY cdID ASC");
(mysqli_num_rows($searchresults)>0){ //If more than one row returned
showtable($searchresults,$connection);
  }
else{
   echo "<h2>No Results</h2>";
  }
 }
 else{
  showtable($originaltable,$connection);
 }
 function showtable($table,$connection){ echo "<table border='3' table
width='60%' table style='background-color:#32a0c2'>";
  echo "  Album ID   Artist Name   Album Title 
Price  Genre   Tracks   Actions   ";
(mysqli_num_rows($table)>0){ //If not searched while($row=mysqli_fetch_array($table)){
    $x=mysqli query($connection,"SELECT * FROM tracks WHERE cdID='$row[0]'"); //Getting the
track counter
    $trackscounter=mysqli_num_rows($x);
    echo " {$row[0]}  {$row[1]}  
{\rm sow[2]} </{\rm td}>
{\text{\conv}[3]}  {\text{\conv}[4]}  {\text{\conv}[4]}  <a
```

```
href='editalbumpage.php?id=$row[0]'> Edit <a href='specifictrackpage.php?id=$row[0]'>
Tracks ";
}
}
}
</body>
</html>
```

## Specificalbumspage.php

```
<a href="homepage.php"> Home </a> 
   <a href="artistpage.php"> Artists </a> 
    <a href="albumspage.php"> Albums </a> 
   <a href="trackspage.php"> Tracks </a> 
  </header>
 <?php
 $id=$_GET['id'];
 $table=mysqli_query($connection,"SELECT cdID, artID, cdTitle, cdPrice, cdGenre, cdNumTracks
FROM album WHERE artID='$id'");
 if (mysqli_num_rows($table)!=0){
  if (isset($_GET['id'])){
                      echo "<table border='3' table width='60%' table
style='background-color:#32a0c2'>";
   echo "  Album ID   Artist Name   Album Title 
 Price   Genre   Tracks   Actions   ";
while($row=mysqli_fetch_array($table)){
    $sql=mysqli_query($connection,"SELECT artName FROM artist WHERE artID='$row[1]'");
    $x=mysqli_fetch_array($sql);
    echo " {$row[0]}  {$x[0]}   {$row[2]}  
{\text{yrow[3]}}  {\text{yrow[4]}}  {\text{yrow[5]}}  <a
href='editalbumpage.php?id=$row[0]'> Edit <a href='trackspage.php'> Tracks ";
    }
   }
  }
```

```
else{
    echo"<h4>Artist has no albums!</h4>";
}

?>

<a href="addalbumpage.php" class="specificbutton"> Add Album</a>
<a href="artistpage.php" class="backbutton"> Back</a>
</body>
</html>
```

## Addalbumpage.php

```
<body id="addtalbumbody">
 <header>
  <h1> Add Album</h1>
  <a href="homepage.php"> Home </a> 
   <a href="artistpage.php"> Artists </a> 
   <a href="albumspage.php"> Albums </a> 
   <a href="trackspage.php"> Tracks </a> 
  </header>
 <form action="" method="POST" onsubmit="return validateaddalbum()">
 <!--table due to multiple fields-->
   Title:
    <input id="namebox2" class="editalbtype" name="title" type="text" </td> <!--Cannot
have an input element (id) which contains matching letters to the name attribute, hence the name
"namebox x" -->
   Artist:
    <select id="namebox6" class="editalbtype" name="artist">
     <option value="Select">Select</option>
     <?php
```

```
$sql="SELECT artName FROM artist ORDER BY artID ASC";
$result=mysqli_query($connection,$sql);
      while($row=mysqli_fetch_array($result)){ echo "<option value
="".$row['artName']."">".$row['artName']."</option>";
                                                  }
      ?>
     </select>
    Price:
    <input input id="namebox3" class="editalbtype" name="price" type="number"
step="0.01" min="0" max="10" 
   Genre:
    <input input id="namebox4" class="editalbtype" name="genre" type="text" </td>
   <input id="editaddbuttontext" value="Add Album" type="submit" name="add">
</form>
 <?php if
(isset($_POST['add'])){
$title=$_POST['title'];
  $artist=$_POST['artist'];
```

```
$price=$_POST['price'];
   $genre=$_POST['genre'];
   $artistid=mysqli_query($connection,"SELECT artID FROM artist WHERE artist.artName='$artist'");
//Matches the artist name with the ID
   $x=mysqli_fetch_array($artistid); //x contains the array of objects representing the fields in a
result set
   $artid=$x[0]; //Gets the ID of the artist
   $check=mysqli_query($connection,"SELECT * FROM album WHERE artID='$artid' AND
cdTitle='$title'");
   $x=mysqli_num_rows($check);
   if ($x==0){
    if (mysqli_query($connection,"INSERT INTO album (artID,cdTitle,cdPrice,cdGenre) VALUES
('$artid','$title','$price','$genre')"));
     {
     echo "<h3>Album added</h3>";
     }
   }
else{
    echo "<h3>Album already exists</h3>";
   }
  }
  ?>
 </body>
</html>
```

## Editalbumpage.php

```
<?php include
'connect.php'; ?>
<!DOCTYPE html>
<html>
<head>
  <title>Edit Album : Music Library</title>
  <script src="js.js"> </script>
 <link rel="stylesheet" href="./css/style.css">
</head>
<body id="editalbumbody">
  <header>
  <h1> Edit Album</h1>
  <a href="homepage.php"> Home </a> 
   <a href="artistpage.php"> Artists </a> 
   <a href="albumspage.php"> Albums </a> 
   <a href="trackspage.php"> Tracks </a> 
  </header>
```

```
<?php
 $id=$_GET['id'];
 $name=mysqli_query($connection,"SELECT * FROM album, artist WHERE
(album.artID=artist.artID) AND cdID='$id'");
 $row=mysqli_fetch_array($name);
 $title=$row['cdTITLE'];
 $artist=$row['artID'];
 $price=$row['cdPrice'];
 $genre=$row['cdGenre'];
 //$tracks=$row['cdNumTracks'];
 $sql=mysqli_query($connection,"SELECT artName FROM artist WHERE artID='$row[1]'");
$x=mysqli_fetch_array($sql);
 ?>
 <form action="" method="post" onsubmit="return validateaddalbum()">
 <!--table due to multiple fields-->
   Title:
    <input id="namebox2" class="editalbtype" name="edittitle" value="<?=$title?>"
type="text" 
   Artist:
    <select id="namebox6" class="editalbtype" name="editartist">
```

```
<option selected="selected" selected disabled hide value=""><?php echo $x[0];?></option>
      <?php
      $sql="SELECT artName FROM artist ORDER BY artID ASC";
$result=mysqli_query($connection,$sql);
      while($row=mysqli_fetch_array($result)){
       echo "<option value ='".$row['artName']."'>".$row['artName']."</option>";
      }
      ?>
     </select>
    Price:
    <input input id="namebox3" class="editalbtype" name="editprice" value="<?=$price?>"
type="number" step="0.01" min="0" max="10" 
   Genre:
    <input input id="namebox4" class="editalbtype" name="editgenre" value="<?=$genre?>"
type="text" 
   <input id="editaddbuttontext" value="Edit Album" type="submit" name="edit">
  <input id="deletebutton" value="Delete Album" type="submit" name="delete">
</form>
```

```
<?php
```

error\_reporting(0);//To remove the warning notice of not selecting an "Artist" e.g. when the user doesn't want to change the artisft of the album when editing

```
if (isset($_POST['edit'])){
    $edittitle=$_POST['edittitle'];
    $editartist="";
    $editartist=$_POST['editartist'];
if ($editartist==null){
     $editartist=$x[0];
    }
    $editprice=$_POST['editprice'];
    $editgenre=$_POST['editgenre'];
    //$edittracks=$_POST['edittracks'];
    $sql=mysqli_query($connection,"SELECT artID FROM artist WHERE artName='$editartist'");
$x=mysqli_fetch_array($sql);
    $check=mysqli_query($connection,"SELECT * FROM album WHERE artID='$x[0]' AND
cdTitle='$edittitle' AND cdPrice='$editprice' AND cdGenre='$editgenre'");
    $rows=mysqli_num_rows($check);
    if ($rows==0){
     if (!mysqli_query($connection,"UPDATE album SET
artID='$x[0]',cdTitle='$edittitle',cdPrice='$editprice',cdGenre='$editgenre' WHERE cdID='$id'"))
      {
      die('Error:'.mysqli_error($connection));
```

```
}
      echo "<h3>Album edited</h3>";
    }
else{
     echo "<h3>Album already exists </h3>";
    }
   }
    if (isset($_POST['delete'])){
     $edittitle=$_POST['edittitle'];
     $editartist="";
     $editartist=$_POST['editartist'];
if ($editartist==null){
      $editartist=$x[0];
     }
     $editprice=$_POST['editprice'];
     $editgenre=$_POST['editgenre'];
     $query=mysqli_query($connection,"SELECT * FROM album WHERE cdTitle='$edittitle'");
$rows=mysqli_num_rows($query);
     if ($rows!=0){ //if record exists
                                          if (!mysqli_query($connection,"DELETE
FROM album WHERE cdTitle='$edittitle'"))
       {
       die(mysqli_error($connection));
```

```
else

{
    echo "<h3>Album deleted</h3>";
}

else

{
    echo "<h3>Album already deleted or does not exist </h3>";
}

}

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

# Trackspage.php

```
<body id="addtalbumbody">
  <header>
   <h1> Tracks</h1>
   <a href="homepage.php"> Home </a> 
   <a href="artistpage.php"> Artists </a> 
   <a href="albumspage.php"> Albums </a> 
     <a href="trackspage.php"> Tracks </a> 
</header>
  <form class="searchbar" action="trackspage.php" method="post">
   <input type="text" name="search" placeholder="Search..." class="searchboxdesign">
</form>
  <a href="addtrackpage.php" class="button"> Add Track</a>
  <?php
 $originaltable=mysqli_query($connection,"SELECT trackID, artName, cdTitle, title, seconds FROM
tracks,album,artist WHERE tracks.cdID=album.cdID AND album.artID=artist.artID ");
  if(isset($_POST['search'])){
   $searchq=$_POST['search'];
   $searchresults=mysqli query($connection,"SELECT trackID, artist.artName, album.cdTitle, title,
seconds FROM tracks, album, artist WHERE tracks.cdID=album.cdID AND
album.artID=artist.artID AND title LIKE '%$searchq%'");
```

```
if (mysqli_num_rows($searchresults)>0){ //While more than one row
showtable($searchresults);
 }
else{
  echo "<h2>No Results</h2>";
  }
 }
 else{
 showtable($originaltable);
 }
 function showtable($table){
  echo "";
  echo "  Track ID   Artist  Album   Title 
 Duration (Seconds)   Actions  ";
if (mysqli_num_rows($table)>0){ //If not searched
while($row=mysqli_fetch_array($table)){
   {\text{\cow}[3]} {\text{\cow}[4]} {\text{\cow}[0]'} Edit ";
 }
 }
}
 ?>
</body>
</html>
```

# Specifictrackspage.php

```
<?php include
'connect.php'; ?>
<!DOCTYPE html>
<html>
 <head>
  <title>Albums : Music Library</title>
  <link rel="stylesheet" href="./css/style.css">
 </head>
 <body id="specifictrackpagebody">
  <header>
  <h1> Tracks </h1>
   <a href="homepage.php"> Home </a> 
   <a href="artistpage.php"> Artists </a> 
    <a href="albumspage.php"> Albums </a>
```

```
 <a href="trackspage.php"> Tracks </a> 
</header>
 <?php
 $id=$_GET['id'];
 $table=mysqli_query($connection,"SELECT_trackID, tracks.artID, tracks.cdID, title, Seconds
FROM tracks, album WHERE tracks.cdID=album.cdID AND tracks.cdID='$id'");
                                                                           if
(mysqli_num_rows($table)!=0){
  if (isset($_GET['id'])){ echo "<table border='3' table width='60%' table
style='background-color:#32a0c2'>";
   echo "  Track ID   Artist Name   Album Title 
Track  Duration (Seconds)   Actions  ";
while($row=mysqli_fetch_array($table)){
    $sql=mysqli_query($connection,"SELECT artName FROM artist WHERE artID='$row[1]'");
    $x=mysqli_fetch_array($sql);
    $sql=mysqli_query($connection,"SELECT cdTitle FROM album WHERE cdID='$row[2]'");
$y=mysqli_fetch_array($sql);
    echo " {$row[0]}  {$x[0]}   {$y[0]}  
{\text{\cow}[3]}  {\text{\cow}[4]}  {\text{\cow}[0]'} Edit  {\converge}
<a href='trackspage.php'> Tracks ";
    }
   }
  }
else{
```

```
echo"<h4>Album has no tracks!</h4>";
   }
  ?>
  <a href="addtrackpage.php" class="specificbutton"> Add Track</a>
  <a href="albumspage.php" class="backbutton"> Back</a>
 </body>
</html>
Addtrackpage.php
<?php
include 'connect.php';
?>
<!DOCTYPE html>
<html>
 <head>
  <title>Add Track : Music Library</title>
  <script src="js.js"> </script>
  <link rel="stylesheet" href="./css/style.css">
 </head>
 <body id="addtrackbody">
  <header>
   <h1> Add Track</h1>
```

```
<a href="homepage.php"> Home </a> 
   <a href="artistpage.php"> Artists </a> 
   <a href="albumspage.php"> Albums </a> 
   <a href="trackspage.php"> Tracks </a> 
  </header>
 <form action="" method="POST" onsubmit="return validateaddtrack()">
   <!--table due to multiple fields-->
   Title:
    <input id="namebox8" class="editalbtype" name="title" type="text" </td> <!--Cannot
have an input element (id) which contains matching letters to the name attribute, hence the name
"namebox x" -->
   Album:
    <select id="namebox10"class="editalbtype" name="album">
      <option value="Select">Select Album</option>
      <?php
      $sql="SELECT cdTitle FROM album ORDER BY artID ASC";
      $result=mysqli_query($connection,$sql);
      while($row=mysqli_fetch_array($result)){
                                              echo "<option value
="".$row['cdTitle']."">".$row['cdTitle']."</option>";
      }
```

```
?>
     </select>
    Duration (Seconds):
    <input id="namebox9" class="editalbtype" name="duration" type="number" >
    <input id="editaddbuttontext" value="Add Track" type="submit" name="add">
  </form>
  <?php
  error_reporting(0);//To remove the warning notice of not selecting an "Artist" e.g. when the user
doesn't want to change the artisft of the album when editing
 if (isset($_POST['add'])){
$title=$_POST['title'];
  $album=$_POST['album'];
  $duration=$_POST['duration'];
  $albumid=mysqli_query($connection,"SELECT cdID FROM album WHERE
album.cdTitle='$album'"); //Matches the album name with the ID
  $x=mysqli_fetch_array($albumid); //x contains the array of objects representing the fields in a
result set
  $albumid=$x[0]; //Gets the ID of the album
```

```
$artid=mysqli_query($connection,"SELECT artID FROM album WHERE cdID='$albumid'");
   $y=mysqli_fetch_array($artid); //x contains the array of objects representing the fields in a result
set
   $ARTISID=$y[0];
   $check=mysqli_query($connection,"SELECT * FROM tracks WHERE cdID='$albumid' AND
title='$title'");
   $x=mysqli_num_rows($check);
   if ($x==0){
    if (!mysqli_query($connection,"INSERT INTO tracks (artID,cdID,title,seconds) VALUES
('$ARTISID','$albumid','$title','$duration')"));
     {
     echo "<h3>Track added</h3>";
     }
   }
else
   {
    echo("<h3>Track already exists</h3>");
   }
  }
  ?>
</body>
</html>
```

## Edittrackspage.php

```
<?php include
'connect.php';
?>
<!DOCTYPE html>
<html>
<head>
  <title>Edit Track : Music Library</title>
  <script src="js.js"> </script>
  <link rel="stylesheet" href="./css/style.css">
</head>
<body id="edittrackbody">
  <header>
  <h1> Edit Track</h1>
  <a href="homepage.php"> Home </a> 
   <a href="artistpage.php"> Artists </a> 
   <a href="albumspage.php"> Albums </a> 
   <a href="trackspage.php"> Tracks </a> 
  </header>
```

```
<?php
 $id=$_GET['id'];
 $name=mysqli_query($connection,"SELECT * FROM album,tracks WHERE album.cdID=tracks.cdID
AND trackID='$id'");
 $row=mysqli_fetch_array($name);
 $album=$row['cdID'];
 $title=$row['title'];
 $duration=$row['Seconds'];
 $x=$row[2];
 ?>
 <form action="" method="post" onsubmit="return validateaddtrack()">
   <!--table due to multiple fields-->
   Title:
    <input id="namebox8" class="editalbtype" name="edittitle" value="<?=$title?>"
type="text" 
   Album:
    <select id="namebox10" class="editalbtype" name="editalbum">
      <option selected disabled hide value=""><?php echo "$row[2]" ?></option>
      <?php
```

```
$sql="SELECT cdTitle FROM album ORDER BY artID ASC";
      $result=mysqli_query($connection,$sql);
      while($row=mysqli_fetch_array($result)){
="".$row['cdTitle']."">".$row['cdTitle']."</option>";
      }
      ?>
     </select>
    Duration (Seconds):
    <input id="namebox7" class="editalbtype" name="editduration" value="<?=$duration?>"
type="number" > 
   <input id="editaddbuttontext" value="Edit Track" type="submit" name="edit">
  <input id="deletebutton" value="Delete Track" type="submit" name="delete">
</form>
 <?php
  error_reporting(0);//To remove the warning notice of not selecting an "Artist" e.g. when the user
doesn't want to change the artisft of the album when editing
  if (isset($_POST['edit'])){
   $edittitle=$_POST['edittitle'];
   $editalbum="";
```

```
$editalbum=$_POST['editalbum'];
if ($editalbum==null){
     $editalbum=$x;
    }
    $editduration=$_POST['editduration'];
    $sql=mysqli_query($connection,"SELECT cdID FROM album WHERE cdTITLE='$editalbum'");
$x=mysqli_fetch_array($sql);
    $check=mysqli_query($connection,"SELECT * FROM tracks WHERE cdID='$x[0]' AND
title='$edittitle' AND Seconds='$editduration'");
    $rows=mysqli_num_rows($check);
    $y=mysqli_query($connection,"SELECT artID FROM album WHERE cdID='$x[0]' ");
$y=mysqli_fetch_array($y);
    if ($rows==0){
     if (!mysqli_query($connection,$sql="UPDATE tracks SET
artID='$y[0]',cdID='$x[0]',title='$edittitle',Seconds='$editduration' WHERE trackID='$id'"))
      {
      die('Error:'.mysqli_error($connection));
      }
      echo "<h3>Track edited</h3>";
    }
else{
     echo "<h3>Track already exists</h3>";
    }
```

```
}
   if (isset($_POST['delete'])){
    $edittitle=$_POST['edittitle'];
    $editalbum="";
    $editalbum=$_POST['editalbum'];
if ($editalbum==null){
     $editalbum=$x;
    }
    $editduration=$_POST['editduration'];
    $query=mysqli_query($connection,"SELECT * FROM tracks WHERE title='$edittitle'");
$rows=mysqli_num_rows($query);
    if ($rows!=0){ //if record exists
                                       if (!mysqli_query($connection,"DELETE
FROM tracks WHERE title='$edittitle'"))
     {
      die('Error:'.mysqli_error($connection));
     }
     echo "<h3>Track deleted</h3>";
    }
else{
    echo "<h3>Track has already been deleted or does not exist</h3>";
    }
```

```
}

?>

</body>
</html>
```

## Connect.php

```
<?php
$connection = mysqli_connect('localhost', 'root', '', 'cw');
if (!$connection) {         die("Connection failed: " .
         mysqli_connect_error());
    }
}</pre>
```

## **Style.css**

```
body{ font: 15px/1.5 sans-serif; margin: 0; /*Removes the space around the page (so it
fits the whole browser window)*/
}
header{/*Main title*/ text-align: center; font-size: 23px;
background-color: #353637; /*blackish*/ padding-top: 2px;
/*To raise the black background to the top*/ color: #ffffff;
/*white*/ border-bottom: #32a0c2 5px solid; /*Line at the
bottom*/
}
header a{ /*for the bullet points*/ color:
#ffffff; /*white*/ text-decoration: none;
/*removes underline*/ text-transform:
uppercase; font-size: 16px;
}
header li{ display: inline; /*Side by side layout*/ padding: 0
50px 0 5px; /*Increases the space between them*/
}
header .highlight, header .current a, header a:hover { /* hover selector is what happens when the
mouse hovers; .current selects and styles all emenets with class="current"*/ background-color:
#32a0c2; /*Light blue*/ padding-top: 10px; padding-left: 20px; padding-right: 20px; padding-
bottom: 10px; font-weight: bold;
}
ul{
```

```
margin: 0; /*Gets rid of margins for the page options (The space between the options and blue
line)*/
}
h2{
 font-size: 50px; position: fixed; left:
10px; background-color: #32a0c2; /*Light
blue*/ color: white; border-radius: 10px
10px;
}
h3{ font-size: 30px; position: fixed; left:
1050px; bottom: 320px; padding: 5px;
background-color: #32a0c2; /*Light blue*/
color: white; border-radius: 10px 10px;
}
#errorartist{ font-size: 30px;
position: fixed; left: 570px; padding:
5px; background-color: red; /*Light
blue*/ color: white; border-radius:
10px 10px;
}
#homepagebody{ /*id selector for the body (background image)*/
background: url('../images/discs.jpg') center; /*Display centre of the image*/
background-size:cover; /*Streches the image to cover the body*/
```

```
}
#artistpagebody{ background: url('../images/artist.jpg'); /*Display
centre of the image*/ background-size:cover; /*Streches the image to
cover the body*/
}
#addartistbody{ background: url('../images/migos.jpg'); /*Display
centre of the image*/ background-size:cover; /*Streches the image to
cover the body*/
}
#editartistbody{ background: url('../images/versace.jpg'); /*Display
centre of the image*/ background-size:cover; /*Streches the image to
cover the body*/
}
#editalbumbody{ background: url('../images/kanye.jpg'); /*Display
centre of the image*/ background-size:cover; /*Streches the image to
cover the body*/
}
#addtalbumbody{ background: url('../images/drake.jpg'); /*Display
centre of the image*/ background-size:cover; /*Streches the image to
cover the body*/
}
```

```
#addtalbumbody{ background: url('../images/rocky.jpg'); /*Display
centre of the image*/ background-size:cover; /*Streches the image to
cover the body*/
}
#addtrackbody{ background: url('../images/drizzy.jpg'); /*Display
centre of the image*/ background-size:cover; /*Streches the image to
cover the body*/
}
#edittrackbody{ background: url('../images/skepta.jpg'); /*Display
centre of the image*/ background-size:cover; /*Streches the image to
cover the body*/
}
#albumpagebody{ background: url('../images/album.png'); /*Display
centre of the image*/ background-size:cover; /*Streches the image to
cover the body*/
}
#specificalbumpagebody{ background: url('../images/kanyee.jpg');
 /*Display centre of the image*/ background-size:cover; /*Streches the
 image to cover the body*/
}
```

```
#specifictrackpagebody{ background: url('../images/weeknd.jpg');
/*Display centre of the image*/ background-size:cover; /*Streches the
image to cover the body*/
}
#homepagemid h2{ /*The title of the page e.g. "database metrics", "artists"... */
background-color: #32a0c2; /*Light blue*/ font-size: 30px; text-indent: 10px;
border-left: 10px solid red;
}
#midbullets{ /*For bullet points middle of the page*/ font-size: 47px; color: white;
background-color: red; max-width: 600px; /*So that the background colour doesn't cover the
whole width of the page*/ opacity: 0.8; position: fixed; top: 260px; left: 10px; border-left:
10px solid red;
}
.searchbar{ padding-top: 15px; //Space between bar and
page options
}
.searchboxdesign{ border:
5px solid #32a0c2;
border-radius: 10px 10px;
padding: 5;
}
```

```
.button{ font-size: 25px; text-decoration:
none; /*removes underline*/ color: white;
border-radius: 10px 10px; position:absolute;
top: 193px; left: 200px; padding: 3px 3px;
background-color: #32a0c2;
}
.specificbutton{ font-size: 25px; text-
decoration: none; /*removes underline*/
color: white;
border-radius: 10px 10px;
position:fixed; top: 500px;
left: 235px; padding: 3px
3px; background-color:
#32a0c2;
}
.backbutton{ font-size: 25px; text-
decoration: none; /*removes underline*/
color: white; border-radius: 10px 10px;
position:fixed; top: 500px; left: 135px;
padding: 3px 3px; background-color: #32a0c2;
}
h4{ font-size: 50px;
color: white; border-
radius: 10px 10px;
```

```
position: fixed; top:
200px; left: 50px;
 padding: 10px 10px; background-
color: #32a0c2;
}
#editaddbuttonposition{
width: 170px; margin:
auto; margin-top:
50px; padding: 5px;
}
#editaddbuttontext{ font-size: 25px; text-
decoration: none; /*removes underline*/
color: white; border-radius: 10px 10px;
position: fixed; top: 550px; left: 800px;
padding: 10px 10px; background-color:
#32a0c2;
}
#deletebutton{
  font-size: 25px; text-decoration: none;
/*removes underline*/ color: white;
border-radius: 10px 10px; position: fixed;
top: 550px; left: 600px; padding: 10px 10px;
background-color: #32a0c2;
```

```
}
.addartistpagebardesign{ /*Thius is the design*/
width: 500px; height: 80px; margin: auto;
margin-top: 50px; border: 2px solid #32a0c2;
border-radius: 10px 10px; padding: 5px; font-
size: 35px;
}
.addartistpagebar{ /*Positioning*/
width: 500px; margin: auto;
margin-top: 50px; padding: 5px;
}
input{ padding:
10px; margin: 5px;
border-radius: 5px;
border: none;
}
. editalb form \{\\
width:300px; margin:
auto; padding: 5px;
}
.editalbtext{ width: 60px;
font-size: 25px; font-
```

```
weight: bold; color: white;
padding-left: 30px;
background-color: #32a0c2;
border-radius: 10px 10px;
}
.editalbtype{ border: 2px
solid #32a0c2; border-
radius: 10px 10px;
padding: 5px;
font-size: 35px;
}
```

## js.js

function validateaddalbum() $\{$  //Cannot have an input element (id) which contains matching letters to the name attribute, hence the name "namebox x"

```
var title=document.getElementById('namebox2');
var price=document.getElementById('namebox3');
var genre=document.getElementById('namebox4');
var artist=document.getElementById('namebox6');
```

```
if (title.value==""){    title.focus();
title.style.border="solid 5px red";
 }
 if (artist.value=="Select"){
artist.focus();
artist.style.border="solid 5px red";
 }
 if (price.value==""){     price.focus();
price.style.border="solid 5px red";
 }
 if (genre.value==""){
genre.focus();
genre.style.border="solid 5px red";
 }
 if (title.value=="" || price.value=="" || genre.value=="" || artist.value=="Select" ){
alert("Fields can not be left empty"); return false;
}
}
function validateartistname(){
 var addartistnamebox=document.getElementById('addartistnamebox');
if (addartistnamebox.value==""){      addartistnamebox.focus();
addartistnamebox.style.border="solid 5px red"; alert("Artist name can
not be empty"); return false;
 }
```

```
}
function validateaddtrack(){
 var title=document.getElementById('namebox8');
var duration=document.getElementById('namebox9');
var album=document.getElementById('namebox10');
if (title.value==""){    title.focus();
title.style.border="solid 5px red";
 }
 if (duration.value==""){
duration.focus();
duration.style.border="solid 5px red";
 }
 if (album.value=="Select"){
album.focus();
album.style.border="solid 5px red";
 }
 if (title.value=="" || duration.value=="" || album.value=="Select"){
alert("Fields can not be left empty"); return false;
}
}
```