Interface Coursework

Overview

In my files I use HTML elements in the form of:

- Custom google fonts which I imported
- A navigation bar which redirects you to whatever task you want to perform (searching, adding or deleting) and specifies what page you currently are on
- Use of headers
- Forms which allow the user to input values and press submit
- Added HTML validation such as requiring an input from the user, setting min and max values, number of decimal places allowed and the steps taken when using the arrow keys for the number inputs
- Added max value which makes sure input is below current year for Add Movie using a dynamic counter
- Added placeholders so the user can see what they must type in the input boxes
- When user presses submit after inputting data it will reroute to the javaScript file for additional validation
- Created classes to allow for CSS customization

PHP elements in the form of:

- Connecting to a MySQL database
- Testing whether connection to the MySQL database was successful
- Storing user input from HTML to search for specific values, delete specific values or add specific values in the MySQL database by using SQL commands
- Output these results if searching
- If adding or deleting specifiy if values were added/deleted successfully by checking the database
- Error checking for when an incorrect actor name is inputted which doesn't match any in the database
- Error checking when an incorrect Actor ID is inputted for Add Movie

CSS elements in the form of:

- Editing the navigation bar and input boxes to be more dynamic such as when a user hovers over a button or clicks on it
- Making the page look more professional and clean through changing of colours, margins and fonts etc
- Editing headers
- Editing the error messages so they are more prominent and aesthetically pleasing
- Editing the search result output so it's clear and concise and matches the page
- Padding to allow for no overflowing
- Output table auto readjusts to fit any size of output it's given

JavaScript elements in the form of:

- Adding loops to go through all inputs and search for empty inputs if so prints out an error message
- Adding loops to go through all inputs and search for invalid characters if so prints out an error message
- For Add Movie I created an if statement for when the Movie Price input is less than 0 it'll print out an error
- For Add Movie I created an if statement for when the Movie Year input is less than 1900 it'll print out an error
- For Add Movie I created an if statement for when the Movie Year input is more than the current year(eg 2020) it'll print out an error
- For Add Movie I created an if statement for when the Movie Year input is more or less than 4 characters it'll print out an error
- I created error checks for both HTML and JavaScript incase HTML validation is passed for some reason the JavaScript will run as backup

Appendix with comments on code

Index.php(search actor)

```html
<!--Sets document type to HTML since file is originally a php file-->
<!DOCTYPE html>
<!--Tells the browser this is a HTML document-->
<html>
<!--The head is where we include our metadata such as links, scripts and titles-->
<head>

<!--Links css file to our php file-->
<link rel="stylesheet" type="text/css" href="format.css">
<!--Links our google font to our php file-->
<link href="https://fonts.googleapis.com/css?family=Alata" rel="stylesheet">
<!--Links our JavaScript file to our php file-->
<script src="validation.js"></script>

<!--Sets the Tab title for the webpage-->
<title>Search Actor</title>

<!--End of head tag-->
</head>
<!--Defines the document's body and contains all the elements of a HTML document-->
<body>

<!--Defines a division in the file where we can include a container to style with for CSS and help us with certain
tasks in JavaScript-->
<!--Here we set parameters for a navigation bar-->
<div class="navigation">
        <!--Here we create a class for the current page we will be viewing-->
        <!--href specifies the link's destination-->
        <a class="current" href="index.php">Search Actor</a>
        <a href="searchMovie.php">Search Movie</a>
        <a href="addActor.php">Add Actor</a>
        <a href="addMovie.php">Add Movie</a>
        <a href="deleteActor.php">Delete Actor</a>
        <a href="deleteMovie.php">Delete Movie</a>
<!--End of div tag-->
</div>

<!--Header of the page in the largest header font size-->
<h1>Search Actor</h1>

<!--"form" Creates a HTML form for user input-->
<!--'method = "POST"'Appends form-data inside the body of the HTTP request-->
<!--"onsubmit" links to a function when form is submitted-->
<form action= "" method= "POST" onsubmit = "return validationActor(this)">
<!--Creates an input which only accepts text and assigns it a name-->
<!--Before an input is typed the placeholder value will be prompted as a guide-->
<!--'Required' makes sure the user has to input a value-->
<input type = "text" name = "ActorName" placeholder = "Actor Name" required><br>
<!--Creates an input for the submit button-->
<input type = "submit" name = "Search" value = "Search">
<!--End of form tag-->
</form>

<!--Starts the PHP script within file-->
<?php
        //links php file with connection details to MySQL database
        include 'connect.php';

        //If the variable 'Search' was posted then
        if (isset($_POST['Search']))
        {
        //Saves value inputted as a variable and trims it to remove all white space
        $actorQuery = trim($_POST['ActorName']);
        //Save sql statement we want to run as a variable
        //Selects variables from ACTOR which are related to the user input
        $sql = "SELECT actID,actName FROM Actor WHERE actName = '$actorQuery'";
        //Performs query against our database saving value as a variable
        $result = mysqli_query($conn, $sql);
        //If the number of rows received by the MySQL query is equal to 0
        if(mysqli_num_rows($result)==0)
        {
                //print out error message with css styling
                echo '<div class="confirmation">';
                echo "<br><c>Error:</c>Actor Was Not Found<br><br>";
                echo '</div>';
        }
```

```php
        //while there are results in the array
        while($rows = mysqli_fetch_array($result))
        {
                //Assign variables to sql results
                $actID = $rows['actID'];
                $actName = $rows['actName'];
                //Prints out sql results in certain format with css styling
                echo '<br><div class = "output">';
                echo "<br><b>Actor ID:</b>$actID<br>
                <b>Actor Name:</b>$actName<br><br>";
                echo '</div>';
                }


        }
//Ends MySQL connection
mysqli_close($conn);
//Ends PHP script
?>
<!--End of body tag-->
</body>
<!--End of html tag-->
</html>
```

searchMovie.php

```html
<!--Sets document type to HTML since file is originally a php file-->
<!DOCTYPE html>
<!--Tells the browser this is a HTML document-->
<html>
<!--The head is where we include our metadata such as links, scripts and titles-->
<head>

<!--Links css file to our php file-->
<link rel="stylesheet" type="text/css" href="format.css">
<!--Links our google font to our php file-->
<link href="https://fonts.googleapis.com/css?family=Alata" rel="stylesheet">
<!--Links our JavaScript file to our php file-->
<script src="validation.js"></script>

<!--Sets the Tab title for the webpage-->
<title>Search Movie</title>

<!--End of head tag-->
</head>
<!--Defines the document's body and contains all the elements of a HTML document-->
<body>

<!--Defines a division in the file where we can include a container to style with for CSS and help us with certain
tasks in JavaScript-->
<!--Here we set parameters for a navigation bar-->
<div class="navigation">
        <!--Here we create a class for the current page we will be viewing-->
        <!--href specifies the link's destination-->
        <a href="index.php">Search Actor</a>
        <a class="current" href="searchMovie.php">Search Movie</a>
        <a href="addActor.php">Add Actor</a>
        <a href="addMovie.php">Add Movie</a>
        <a href="deleteActor.php">Delete Actor</a>
        <a href="deleteMovie.php">Delete Movie</a>
<!--End of div tag-->
</div>

<!--Header of the page in the largest header font size-->
<h1>Search Movie</h1>

<!--"form" Creates a HTML form for user input-->
<!--'method = "POST"'Appends form-data inside the body of the HTTP request-->
<!--"onsubmit" links to a function when form is submitted-->
<form action = "" method = "POST" onsubmit = "return validationMovie(this)">
<!--Creates an input which only accepts text and assigns it a name-->
<!--Before an input is typed the placeholder value will be prompted as a guide-->
<!--'Required' makes sure the user has to input a value-->
<input type = "text" name = "MovieTitle" placeholder = "Movie Title" required><br>
<!--Creates an input for the submit button-->
<input type = "submit" name = "Search" value = "Search">
<!--End of form tag-->
</form>

<!--Starts the PHP script within file-->
<?php
        //links php file with connection details to MySQL database
```

```php
        include 'connect.php';

        //If the variable 'Search' was posted then
        if (isset($_POST['Search']))
        {
        //Saves value inputted as a variable and trims it to remove all white space
        $movieQuery = trim($_POST['MovieTitle']);
        //Save sql statement we want to run as a variable
        //Selects variables from MOVIE which are related to the user input
        $sql = "SELECT mvID, actID, mvTitle, mvPrice, mvYear, mvGenre FROM Movie WHERE mvTitle = '$movieQuery'";
        //Performs query against our database saving value as a variable
        $result = mysqli_query($conn, $sql);
        //If the number of rows received by the MySQL query is equal to 0
        if(mysqli_num_rows($result)==0)
        {
                //print out error message with css styling
                echo '<div class="confirmation">';
                echo "<br><c>Error:</c>Movie Was Not Found<br><br>";
                echo '</div>';
        }

        //while there are results in the array
        while($rows = mysqli_fetch_array($result))
        {
                //Assign variables to sql results
                $movieID = $rows['mvID'];
                $actorID = $rows['actID'];
                $movieTitle = $rows['mvTitle'];
                $moviePrice = $rows['mvPrice'];
                $movieYear = $rows['mvYear'];
                $movieGenre = $rows['mvGenre'];
                //Prints out sql results in certain format with css styling
                echo '<br><div class="output">';
                echo "<br><b>Movie ID:</b>$movieID<br>
                <b>Actor ID:</b>$actorID<br>
                <b>Movie Title:</b>$movieTitle<br>
                <b>Movie Price:</b>$moviePrice<br>
                <b>Movie Year:</b>$movieYear<br>
                <b>Movie Genre:</b>$movieGenre<br><br>";
                echo '</div>';
                }
        }
//Ends MySQL connection
mysqli_close($conn);
//Ends PHP script
?>
<!--End of body tag-->
</body>
<!--End of html tag-->
</html>
```

addActor.php

```html
<!--Sets document type to HTML since file is originally a php file-->
<!DOCTYPE html>
<!--Tells the browser this is a HTML document-->
<html>
<!--The head is where we include our metadata such as links, scripts and titles-->
<head>

<!--Links css file to our php file-->
<link rel="stylesheet" type="text/css" href="format.css">
<!--Links our google font to our php file-->
<link href="https://fonts.googleapis.com/css?family=Alata" rel="stylesheet">
<!--Links our JavaScript file to our php file-->
<script src="validation.js"></script>

<!--Sets the Tab title for the webpage-->
<title>Add Actor</title>

<!--End of head tag-->
</head>
<!--Defines the document's body and contains all the elements of a HTML document-->
<body>

<!--Defines a division in the file where we can include a container to style with for CSS and help us with certain
tasks in JavaScript-->
<!--Here we set parameters for a navigation bar-->
<div class="navigation">
        <!--Here we create a class for the current page we will be viewing-->
        <!--href specifies the link's destination-->
```

```html
            <a href="index.php">Search Actor</a>
            <a href="searchMovie.php">Search Movie</a>
            <a class="current" href="addActor.php">Add Actor</a>
            <a href="addMovie.php">Add Movie</a>
            <a href="deleteActor.php">Delete Actor</a>
            <a href="deleteMovie.php">Delete Movie</a>
<!--End of div tag-->
</div>

<!--Header of the page in the largest header font size-->
<h1>Add Actor</h1>

<!--"form" Creates a HTML form for user input-->
<!--'method = "POST"'Appends form-data inside the body of the HTTP request-->
<!--"onsubmit" links to a function when form is submitted-->
<form action = "" method = "POST" onsubmit = "return validationActor(this)">
<!--Creates an input which only accepts text and assigns it a name-->
<!--Before an input is typed the placeholder value will be prompted as a guide-->
<!--'Required' makes sure the user has to input a value-->
<input type = "text" name = "ActorName" placeholder = "Actor Name" required><br>
<!--Creates an input for the submit button-->
<input type = "submit" name = "Add" value = "Add">
<!--End of form tag-->
</form>

<!--Starts the PHP script within file-->
<?php
        //links php file with connection details to MySQL database
        include 'connect.php';

        //If the variable 'Add' was posted then
        if (isset($_POST['Add']))
        {
        //Saves value inputted as a variable and trims it to remove all white space
        $actorQuery = trim($_POST['ActorName']);
        //Save sql statement we want to run as a variable
        //Adds values set by user into ACTOR
        $sql="INSERT INTO Actor(actName) VALUES ('$actorQuery')";
        //Performs query against our database saving value as a variable
        $result = mysqli_query($conn, $sql);
        //assigns a variable to the number of affected rows when the query is run
        $num = mysqli_affected_rows($conn);
        //if number of rows affected is more than 0
        if($num > 0)
        {
                //prints out successful message with css styling
                echo '<div class="confirmation">';
                echo "<br>Actor Added<br><br>";
        }
        else
        {
                //else prints out error message with css styling
                echo '<div class="confirmation">';
                echo "<br><c>Error:</c>Actor Couldn't Be Added<br><br>";
                echo '</div>';
        }
        }
//Ends MySQL connection
mysqli_close($conn);
//Ends PHP script
?>
<!--End of body tag-->
</body>
<!--End of html tag-->
</html>
```

addMovie.php

```html
<!--Sets document type to HTML since file is originally a php file-->
<!DOCTYPE html>
<!--Tells the browser this is a HTML document-->
<html>
<!--The head is where we include our metadata such as links, scripts and titles-->
<head>

<!--Links css file to our php file-->
<link rel="stylesheet" type="text/css" href="format.css">
<!--Links our google font to our php file-->
<link href="https://fonts.googleapis.com/css?family=Alata" rel="stylesheet">
<!--Links our JavaScript file to our php file-->
<script src="validation.js"></script>
```

```html
<!--Sets the Tab title for the webpage-->
<title>Add Movie</title>

<!--End of head tag-->
</head>
<!--Defines the document's body and contains all the elements of a HTML document-->
<body>

<!--Defines a division in the file where we can include a container to style with for CSS and help us with certain
tasks in JavaScript-->
<!--Here we set parameters for a navigation bar-->
<div class="navigation">
        <!--Here we create a class for the current page we will be viewing-->
        <!--href specifies the link's destination-->
        <a href="index.php">Search Actor</a>
        <a href="searchMovie.php">Search Movie</a>
        <a href="addActor.php">Add Actor</a>
        <a class="current" href="addMovie.php">Add Movie</a>
        <a href="deleteActor.php">Delete Actor</a>
        <a href="deleteMovie.php">Delete Movie</a>
<!--End of div tag-->
</div>

<!--Header of the page in the largest header font size-->
<h1>Add Movie</h1>

<!--"form" Creates a HTML form for user input-->
<!--'method = "POST"'Appends form-data inside the body of the HTTP request-->
<!--"onsubmit" links to a function when form is submitted-->
<form action = "" method = "POST" onsubmit = "return validationAddMovie(this)">
<!--Creates an input which only accepts text and assigns it a name-->
<!--Before an input is typed the placeholder value will be prompted as a guide-->
<!--'Required' makes sure the user has to input a value-->
<input type = "text" name = "MovieTitle" placeholder = "Movie Title" required><br>
<!--Creates an input which only accepts numbers and assigns it a name-->
<!--'onchange' sets the max decimal places allowed-->
<!--'step' sets the increment for the arrows keys-->
<!--'min' sets the minimum value that can be entered-->
<input type = "number" name = "MoviePrice" placeholder = "Movie Price" onchange="setTwoNumberDecimal" step="0.01" min
= "0" required><br>
<!--'max' sets the maximum value that can be entered in this case it gets the current year and uses that as the max-->
<input type = "number" name = "MovieYear" placeholder = "Movie Year" onchange="setZeroNumberDecimal" min = "1900" max
= <?php echo date("Y"); ?> required><br>
<input type = "text" name = "MovieGenre" placeholder = "Movie Genre" required><br>
<input type = "number" name = "ActorID" placeholder = "Actor ID" min = "1" required><br>
<!--Creates an input for the submit button-->
<input type = "submit" name = "Add" value = "Add">
<!--End of form tag-->
</form>

<!--Starts the PHP script within file-->
<?php
        //links php file with connection details to MySQL database
        include 'connect.php';

        //If the variable 'Add' was posted then
        if (isset($_POST['Add']))
        {
        //Saves value inputted as a variable and trims it to remove all white space
        $MovieTitleQuery = trim($_POST['MovieTitle']);
        $MoviePriceQuery = trim($_POST['MoviePrice']);
        $MovieYearQuery = trim($_POST['MovieYear']);
        $MovieGenreQuery = trim($_POST['MovieGenre']);
        $MovieActIDQuery = trim($_POST['ActorID']);
        //Save sql statement we want to run as a variable
        //Adds values set by user into MOVIE
        $sql="INSERT INTO Movie(mvTitle,mvPrice,mvYear,mvGenre,actID) VALUES
('$MovieTitleQuery','$MoviePriceQuery','$MovieYearQuery','$MovieGenreQuery','$MovieActIDQuery')";
        //Performs query against our database saving value as a variable
        $result = mysqli_query($conn, $sql);
        //assigns a variable to the number of affected rows when the query is run
        $num = mysqli_affected_rows($conn);
        //if number of rows affected is more than 0
        if($num > 0)
        {
                //prints out successful message with css styling
                echo '<div class="confirmation">';
                echo "<br>Movie Added<br><br>";
        }
        else
        {
```

```php
                //else prints out error message with css styling
                echo '<div class="confirmation">';
                echo "<br><c>Error:</c>Invalid Actor ID<br><br>";
                echo '</div>';
        }
        }
//Ends MySQL connection
mysqli_close($conn);
//Ends PHP script
?>
<!--End of body tag-->
</body>
<!--End of html tag-->
</html>
```

deleteActor.php

```php
<!--Sets document type to HTML since file is originally a php file-->
<!DOCTYPE html>
<!--Tells the browser this is a HTML document-->
<html>
<!--The head is where we include our metadata such as links, scripts and titles-->
<head>

<!--Links css file to our php file-->
<link rel="stylesheet" type="text/css" href="format.css">
<!--Links our google font to our php file-->
<link href="https://fonts.googleapis.com/css?family=Alata" rel="stylesheet">
<!--Links our JavaScript file to our php file-->
<script src="validation.js"></script>

<!--Sets the Tab title for the webpage-->
<title>Delete Actor</title>

<!--End of head tag-->
</head>
<!--Defines the document's body and contains all the elements of a HTML document-->
<body>

<!--Defines a division in the file where we can include a container to style with for CSS and help us with certain
tasks in JavaScript-->
<!--Here we set parameters for a navigation bar-->
<div class="navigation">
        <!--Here we create a class for the current page we will be viewing-->
        <!--href specifies the link's destination-->
        <a href="index.php">Search Actor</a>
        <a href="searchMovie.php">Search Movie</a>
        <a href="addActor.php">Add Actor</a>
        <a href="addMovie.php">Add Movie</a>
        <a class="current" href="deleteActor.php">Delete Actor</a>
        <a href="deleteMovie.php">Delete Movie</a>
<!--End of div tag-->
</div>

<!--Header of the page in the largest header font size-->
<h1>Delete Actor</h1>

<!--"form" Creates a HTML form for user input-->
<!--'method = "POST"'Appends form-data inside the body of the HTTP request-->
<!--"onsubmit" links to a function when form is submitted-->
<form action = "" method = "POST" onsubmit = "return validationActor(this)">
<!--Creates an input which only accepts text and assigns it a name-->
<!--Before an input is typed the placeholder value will be prompted as a guide-->
<!--'Required' makes sure the user has to input a value-->
<input type = "text" name = "ActorName" placeholder = "Actor Name" required><br>
<!--Creates an input for the submit button-->
<input type = "submit" name = "Delete" value = "Delete">
<!--End of form tag-->
</form>

<!--Starts the PHP script within file-->
<?php
        //links php file with connection details to MySQL database
        include 'connect.php';

        //If the variable 'Delete' was posted then
        if (isset($_POST['Delete']))
        {
        //Saves value inputted as a variable and trims it to remove all white space
        $actorQuery = trim($_POST['ActorName']);
        //Save sql statement we want to run as a variable
```

```php
        //Deletes the specified row from ACTOR which the user inputted
        $sql= "DELETE FROM Actor WHERE actName ='$actorQuery'";
        //Performs query against our database saving value as a variable
        $result = mysqli_query($conn, $sql);
        //assigns a variable to the number of affected rows when the query is run
        $num = mysqli_affected_rows($conn);
        //if number of rows affected is more than 0
        if($num > 0)
        {
                //prints out successful message with css styling
                echo '<div class="confirmation">';
                echo "<br>Actor Deleted<br><br>";
        }
        else
        {
                //else prints out error message with css styling
                echo '<div class="confirmation">';
                echo "<br><c>Error:</c>Actor Not Found<br><br>";
                echo '</div>';
        }
        }
//Ends MySQL connection
mysqli_close($conn);
//Ends PHP script
?>
<!--End of body tag-->
</body>
<!--End of html tag-->
</html>
```

deleteMovie.php

```html
<!--Sets document type to HTML since file is originally a php file-->
<!DOCTYPE html>
<!--Tells the browser this is a HTML document-->
<html>
<!--The head is where we include our metadata such as links, scripts and titles-->
<head>

<!--Links css file to our php file-->
<link rel="stylesheet" type="text/css" href="format.css">
<!--Links our google font to our php file-->
<link href="https://fonts.googleapis.com/css?family=Alata" rel="stylesheet">
<!--Links our JavaScript file to our php file-->
<script src="validation.js"></script>

<!--Sets the Tab title for the webpage-->
<title>Delete Movie</title>

<!--End of head tag-->
</head>
<!--Defines the document's body and contains all the elements of a HTML document-->
<body>

<!--Defines a division in the file where we can include a container to style with for CSS and help us with certain
tasks in JavaScript-->
<!--Here we set parameters for a navigation bar-->
<div class="navigation">
        <!--Here we create a class for the current page we will be viewing-->
        <!--href specifies the link's destination-->
        <a href="index.php">Search Actor</a>
        <a href="searchMovie.php">Search Movie</a>
        <a href="addActor.php">Add Actor</a>
        <a href="addMovie.php">Add Movie</a>
        <a href="deleteActor.php">Delete Actor</a>
        <a class="current" href="deleteMovie.php">Delete Movie</a>
<!--End of div tag-->
</div>

<!--Header of the page in the largest header font size-->
<h1>Delete Movie</h1>

<!--"form" Creates a HTML form for user input-->
<!--'method = "POST"'Appends form-data inside the body of the HTTP request-->
<!--"onsubmit" links to a function when form is submitted-->
<form action = "" method = "POST" onsubmit = "return validationMovie(this)">
<!--Creates an input which only accepts text and assigns it a name-->
<!--Before an input is typed the placeholder value will be prompted as a guide-->
<!--'Required' makes sure the user has to input a value-->
<input type = "text" name = "MovieTitle" placeholder = "Movie Title" required><br>
<!--Creates an input for the submit button-->
```

```html
<input type = "submit" name = "Delete" value = "Delete">
<!--End of form tag-->
</form>

<!--Starts the PHP script within file-->
<?php
        //links php file with connection details to MySQL database
        include 'connect.php';

        //If the variable 'Delete' was posted then
        if (isset($_POST['Delete']))
        {
        //Saves value inputted as a variable and trims it to remove all white space
        $movieQuery = trim($_POST['MovieTitle']);
        //Save sql statement we want to run as a variable
        //Deletes the specified row from MOVIE which the user inputted
        $sql = "DELETE FROM Movie WHERE mvTitle='$movieQuery'";
        //Performs query against our database saving value as a variable
        $result = mysqli_query($conn, $sql);
        //assigns a variable to the number of affected rows when the query is run
        $num = mysqli_affected_rows($conn);
        //if number of rows affected is more than 0
        if($num > 0)
        {
                //prints out successful message with css styling
                echo '<div class="confirmation">';
                echo "<br>Movie Deleted<br><br>";
        }
        else
        {
                //else prints out error message with css styling
                echo '<div class="confirmation">';
                echo "<br><c>Error:</c>Movie Not Found<br><br>";
                echo '</div>';
        }
        }
//Ends MySQL connection
mysqli_close($conn);
//Ends PHP script
?>
<!--End of body tag-->
</body>
<!--End of html tag-->
</html>
```

validation.js (javascript validation checker)

```javascript
//Creates function with "form" as parameter for Actor searches, adding and deleting
function validationActor(form) {
    //Creates a variable and sets it to 1
    var result = 1;
    //Creates a variable and sets it to an empty string
    var message = "";
    //Creates variable which contains all characters which will be accepted by the input for "Actor Name"
    var characters = /^[a-zA-Z\\.\\-\\'\\ ]+$/;
    //for loop where i is incremented till it reaches the end of the form
    for (var i = 0; i < form.length; i++) {
        //if the form element values contain no input
        if (form.elements[i].value.trim() == "") {
            //store an error statement as the variable "message"
            message += "" + form.elements[i].name + " can't be blank. ";
            //Change result variable to 0 from 1
            result = 0;
        }
        //if the form element values contain no values which match the "characters" variable
        if (!form.elements[i].value.trim().match(characters)) {
            //store an error statement as the variable "message"
            message += "" + form.elements[i].name + " has invalid characters. ";
            //Change result variable to 0 from 1
            result = 0;
        }
    }
    //if the variable "result" is 0 then
    if (result == 0) {
        //print out stored statement in "message"
        alert(message);
        //return false
        return false;
    }
    else {
        //else return true
```

```javascript
            return true;
        }
    }
//Creates function with "form" as parameter for Movie searches and deleting
function validationMovie(form) {
    //Creates a variable and sets it to 1
    var result = 1;
    //Creates a variable and sets it to an empty string
    var message = "";
    //Creates variable which contains all characters which will be accepted by the input for Movie inputs
    var characters = /^[0-9a-zA-Z\\.\\,\\:\\-\\!\\?\\'\\&\\"\\ ]+$/;
    //for loop where i is incremented till it reaches the end of the form
    for (var i = 0; i < form.length; i++) {
        //if the form element values contain no input
        if (form.elements[i].value.trim() == "") {
            //store an error statement as the variable "message"
            message += "" + form.elements[i].name + " can't be blank. ";
            //Change result variable to 0 from 1
            result = 0;
        }
        //if the form element values contain no values which match the "characters" variable
        if (!form.elements[i].value.trim().match(characters)) {
            //store an error statement as the variable "message"
            message += "" + form.elements[i].name + " has invalid characters. ";
            //Change result variable to 0 from 1
            result = 0;
        }
    }
    //if the variable "result" is 0 then
    if (result == 0) {
        //print out stored statement in "message"
        alert(message);
        return false;
    }
    else {
        //else return true
        return true;
    }
}
function validationAddMovie(form) {
    //creates variable to store date
    var day = new Date();
    //creates variable to store current year
    var year = day.getFullYear();
    //Creates a variable and sets it to 1
    var result = 1;
    //Creates a variable and sets it to an empty string
    var message = "";
    //Creates variable which contains all characters which will be accepted by the input for Movie inputs
    var characters = /^[0-9a-zA-Z\\.\\,\\:\\-\\!\\?\\'\\&\\"\\ ]+$/;
    //for loop where i is incremented till it reaches the end of the form
    for (var i = 0; i < form.length; i++) {
        //if the form element values contain no input
        if (form.elements[i].value.trim() == "") {
            //store an error statement as the variable "message"
            message += "" + form.elements[i].name + " can't be blank. ";
            //Change result variable to 0 from 1
            result = 0;
        }
        //if the form element values contain no values which match the "characters" variable
        if (!form.elements[i].value.trim().match(characters)) {
            //store an error statement as the variable "message"
            message += "" + form.elements[i].name + " has invalid characters. ";
            //Change result variable to 0 from 1
            result = 0;
        }
    }
    //if the input "Movie Price" value is less than 0
    if (form.MoviePrice.value.trim() < 0) {
        //store an error statement as the variable "message"
        message += "" + form.MoviePrice.name + " has to be over 0. ";
        //Change result variable to 0 from 1
        result = 0;
    }
    //if the input "Movie Year" value is not 4 characters long
    if (form.MovieYear.value.trim().length != 4) {
        //store an error statement as the variable "message"
        message += "" + form.MovieYear.name + " has to be 4 characters long. ";
        //Change result variable to 0 from 1
        result = 0;
    }
    //if the input "Movie Year" value is less than 1900
```

```javascript
    if (form.MovieYear.value.trim() < 1900) {
        //store an error statement as the variable "message"
        message += "" + form.MovieYear.name + " has to be over 1900. ";
        //Change result variable to 0 from 1
        result = 0;
    }
    //if the input "Movie Year" value is greater than the current year
    if (form.MovieYear.value.trim() > year) {
        //store an error statement as the variable "message"
        message += "" + form.MovieYear.name + " has to be " + year + " or under. ";
        //Change result variable to 0 from 1
        result = 0;
    }
    //if the variable "result" is 0 then
    if (result == 0) {
        //print out stored statement in "message"
        alert(message);
        return false;
    }
    else {
        //else return true
        return true;
    }
}
```

connect.php

```php
<?php
//Server which contains our MySQL database
$servername = "mysql.cs.nott.ac.uk";
//Username to login to "mysql.cs.nott.ac.uk"
$username = "psyzr2";
//Password to login to "mysql.cs.nott.ac.uk"
$password = "mysql";
//Database name which contains the data we want to use
$dbname = "psyzr2";
//"mysqli_connect" function used to connect to MySQL database server
$conn = mysqli_connect($servername, $username, $password, $dbname);
//If the MySQL connection to the server fails
if ($conn->connect_error)
{
        //Prints out an error message related to issue and exits the PHP script
    die("<p><center>Connection failed: </center></p>" . $conn->connect_error);
}
?>
```

format.css

```css
/*Edits the data within the body tag*/
body {
    /*Changes background-color of the page*/
    background-color: lightgreen;
    /*changes body font*/
    font-family: 'Alata';
}
/*Edits the heading of the page*/
h1 {
    /*Aligns header to the center of the page*/
    text-align: center;
    /*Increases font size to 50 pixels */
    font-size: 50px;
    /*Changes the font color*/
    color: mediumseagreen
}
/*Edits the form data*/
form {
    /*auto centers margin to within container*/
    margin: 20px auto;
    /*sets width of container*/
    width: 320px;
    /*change font color*/
    color: mediumseagreen
}
/*Edits the input boxes*/
input {
    /*Adds space around an elements content*/
    padding: 10px;
    /*Gets font size from parent element(form)*/
    font-size: inherit;
}
```

```css
/*Edits the input boxes for text inputs*/
input[type="text"] {
    /*Creates a box around the input*/
    display: block;
    margin-bottom: 25px;
    width: 100%;
    /*Adds border to box*/
    border: 2px solid mediumseagreen;
    /*Changes color of the box to grey*/
    background: #e0e0e0;
}
/*Edits the input boxes for number inputs*/
input[type="number"] {
    display: block;
    margin-bottom: 25px;
    width: 100%;
    border: 2px solid mediumseagreen;
    background: #e0e0e0;
}
/*Edits the submit button*/
input[type="submit"] {
    width: 344px;
    height: 45px;
    border: none;
    background: mediumseagreen;
    color: white;
}
/*Edits submit button while pressed down*/
input[type="submit"]:focus {
    width: 344px;
    height: 45px;
    border: solid mediumseagreen;
    background: white;
    color: mediumseagreen;
}
/*Edits submit button while hovering over it*/
input[type="submit"]:hover {
    background-color: white;
    color: mediumseagreen;
}
/*Edits input boxes while clicked on them*/
input:focus {
    background-color: white;
}
/*Edits class for the navigation bar*/
.navigation {
    background-color: mediumseagreen;
    /*Hides overflow if text exceeds borders*/
    overflow: hidden;
}
/*Edits the individual navigation bar links*/
.navigation a {
    /*Centers links to the left*/
    float: left;
    color: white;
    /*Text is centered in the middle of the bars*/
    text-align: center;
    /*Spacing of links along the navigation bar*/
    padding: 10px 112.25px;
    text-decoration: none;
    font-size: 17px;
}
/*Edits the links when hovered over*/
.navigation a:hover {
    background-color: white;
    color: mediumseagreen;
}
/*Edits the link that is currently selected*/
.navigation a.current {
    background-color: white;
    color: mediumseagreen;
}
/*Edits output for the search pages*/
.output {
    background-color: white;
    border: 2px solid mediumseagreen;
    text-align: center;
    overflow: hidden;
    width: 344px;
    margin: auto;
    color: mediumseagreen;
}
```

```css
/*Edits the titles of the outputs*/
.output b {
    display: block;
    width: 75%;
    text-align: center;
    background: mediumseagreen;
    color: white;
    margin: auto;
}
/*Edits the confirmation for whether a search result was found or if there was an error*/
.confirmation {
    background-color: white;
    border: 2px solid mediumseagreen;
    text-align: center;
    overflow: hidden;
    width: 344px;
    margin: auto;
    color: mediumseagreen;

}
/*Edits the text for the confirmation*/
.confirmation c {
    display: block;
    width: 75%;
    text-align: center;
    background: mediumseagreen;
    color: white;
    margin: auto;
}
```