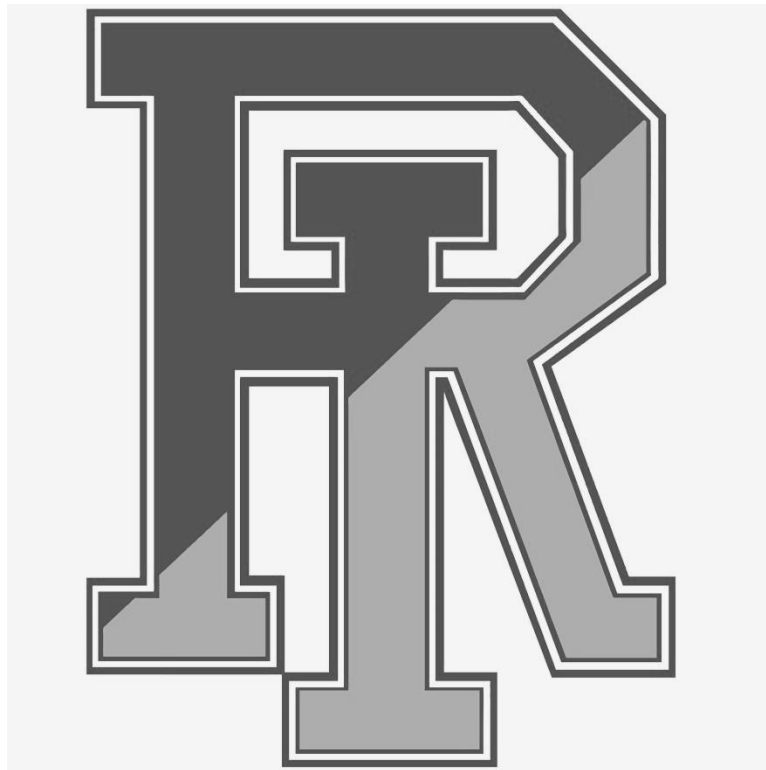


# CSC 436 Spring 2015

## Database Management Systems

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streamTV Final Submission  
21 April 2015  
David V Iacono

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## **streamTV Final Submission**

### **The Joy of Programming**

I really enjoyed completing this project. I learned a lot about HTML, SQL, and PHP. I have to say that PHP was very frustrating to work with. PHP is very particular about how you sequence the PHP code and the HTML code. I received many errors in the beginning.

However, I think that I won't run into those common errors in the future. I think I had some growing pains with the language. I had very limited knowledge and experience with markup languages.

### **Code Standards**

When I originally reviewed the Kids Toys example PHP code, it was very difficult to read and see what was going on with the code. It was not apparent which code standards the HTML and PHP was formatted in. I searched the internet for recommended code standards. I stumbled upon the Fellowship Technologies Code Standards which can be found here.

<http://developer.fellowshipone.com/patterns/code.php>.

This helped establish indenting structure for the document. I set the indentation to tab, with length 4 spaces. I then aligned all of the code blocks per the Fellowship Technologies Code Standards. HTML is much easier to learn when it is formatted properly.

### **Documentation**

Overall, the code is very well documented. Having properly indented the code, I was able to structure the comments very nicely. The comments are easy to read and form a useful narrative for the code.

### **Code Reuse**

I borrowed code from almost every PHP file provided by Dr. DiPippo. Code seems like it made use of a previous version PHP. I had header errors, issues tracking session IDs, and issues connecting to the database.

### **Link to the Home Page**

This is the link to the homepage: <http://diacono.vps.cs.uri.edu/streamTV/streamtv.php>

The only difference is that I'm using Calibri font instead of Times New Roman. I really despise Times New Roman. It has a very uninteresting Internet Explorer / Microsoft Windows feel.

ACTORINFO.PHP

```
<!--
```

```
    Author: David Iacono
    CSC 436 Database Management Systems
    Spring 2015 DiPippo
    Using Fellowship Technologies HTML Code Standards:
```

```
http://developer.fellowshipone.com/patterns/code.php
```

```
    Display information regarding an actor.
```

```
-->
```

```
<html>
```

```
    <body style="font-family:'Calibri'">
```

```
        <!-- Header used for all pages on the site -->
```

```
        <center>
```

```
            <b>
```

```
                <font size=+4>
```

```
                    <a href="streamtv.php">
```

```
                        streamTV
```

```
                    </a>
```

```
                </font>
```

```
            </b>
```

```
            <hr WIDTH="100%"></hr>
```

```
        </center>
```

```
        <!-- PHP to return the Actor information -->
```

```
        <?php
```

```
            //Connect to the Database
```

```
            include 'connect.php';
```

```
            //Get Parameters from the URL
```

```
            $actID = $_GET['actorID'];
```

```
            $name = $_GET['actorName'];
```

```
            echo "<b>The actor you selected:</b><p>$name</p>";
```

```
            //Query for the Main Cast
```

```
            $query = "SELECT S.showID, title, role
```

```
                        FROM SHOWS S, MAIN_CAST M
```

```
                        WHERE S.showID = M.showID AND actID = ?";
```

```
            //Prepare the SQL Statement
```

```
            if(!$stmt=mysqli_prepare($link,$query)){
```

```
                die("Error in query");
```

```
            }
```

```
            //Place $actID into the ? marker
```

```
            mysqli_stmt_bind_param($stmt, "s", $actID);
```

```

//Execute the Query Statement
mysqli_stmt_execute($stmt);

//Bind the Result Set into variables $showID $sTitle and $role
mysqli_stmt_bind_result($stmt,$showID,$sTitle,$role);

//Store the Result in order to get the Row count
mysqli_stmt_store_result($stmt);

//Get the Number of rows in the result set
$rows = mysqli_stmt_num_rows($stmt);
//Display Result List

echo "<p><u><b>Main Cast:</b></u><br>";

//If the query returns with information,
if($rows != 0){
    //print the Main Cast
    while(mysqli_stmt_fetch($stmt)){
        echo"<br><a
href='showinfo.php?showID=$showID'>$sTitle</a> as <i>$role</i>";
    }
}

//Echo that it didn't find anything
else{
    echo "$name is not in the Main Cast of any shows";
}

//Close the statement before beginning next query
mysqli_stmt_close($stmt);

//Retrieve the Main Cast
$query = "SELECT S.showID, title, role
          FROM SHOWS S, RECURRING_CAST R
          WHERE S.showID = R.showID AND actID = ?
          GROUP BY role";

//Prepare the Statement
if(!$stmt=mysqli_prepare($link,$query)){
    die("Error in Query");
}

//set #actID as ? marker
mysqli_stmt_bind_param($stmt, "s", $actID);

//Execute the Query statement

```

```

mysqli_stmt_execute($stmt);

//Bind the Result Set into variables $showID $sTitle and $role
mysqli_stmt_bind_result($stmt, $showID, $sTitle, $role);

//Store the result in order to get the row count
mysqli_stmt_store_result($stmt);

//Get the Number of Rows in the result set
$rows = mysqli_stmt_num_rows($stmt);

//Display the Guest Cast title
echo "<p><b><u>Guest Cast:</u></b><br>";

//If the query returns a value
if($rows != 0){
    //Display all results from the query
    while(mysqli_stmt_fetch($stmt)){
        echo"<br><a
href='showinfo.php?showID=$showID'>$sTitle</a> as <i>$role</i>";
    }
}

//Otherwise State that we found nothing
else{
    echo "$name is not in the guest cast of any shows";
}
//close the statement
mysqli_stmt_close($stmt);

//close connection to the DB
mysqli_close($link);
?>
</body>
</html>

```

ALL\_SEARCH.PHP

```

<!--
    Author: David Iacono
    CSC 436 Database Management Systems
    Spring 2015 DiPippo
    Using Fellowship Technologies HTML Code Standards:
    http://developer.fellowshipone.com/patterns/code.php

    Receives actor or show post data from streamtv.php.
-->

<html>
    <!-- Header used for all pages on the site -->
    <center>
        <b>
            <font size=+4>
                <a href="streamtv.php">
                    streamTV
                </a>
            </font>
        </b>
        <hr WIDTH="100%">
    </center>

    <body style="font-family:'Calibri'">
        <!-- PHP -->
        <?php
            //require the connect.php file to connect to the database.
            require_once "connect.php";

            $allSearch = $_POST['newSearch'];

            echo "Search Results for: $allSearch";

            //Create the wildcard search string for the query
            $allSearch = '%'.$allSearch.'%';

            //Create the query string with marker for the search string
            $query = "SELECT showID, title
                    FROM SHOWS
                    WHERE (title LIKE ?)";

            //Prepare the query statement

            if ($stmt = mysqli_prepare($link, $query)){

                //Bind the parameter $strch to the ? marker in the query string
                mysqli_stmt_bind_param($stmt, 's', $allSearch);

```

```

//Execute the query statement
mysqli_stmt_execute($stmt);

//Bind the result to the variables $name, $showID
mysqli_stmt_bind_result($stmt, $showID, $title);

//Store the result so we can get the number of rows
mysqli_stmt_store_result($stmt);

//Find out how many rows in the result
$rows = mysqli_stmt_num_rows($stmt);
echo "<br>$rows Shows match the search<br>";

if ($rows > 0){
    //Loop through the rows of the result and print
    while (mysqli_stmt_fetch($stmt)){
        echo "<p><a href =
'showinfo.php?showID=$showID'>$title</a>";
    }
}
else{
    echo "<p>No Shows match<br>";
}
}

//Close the statement
mysqli_stmt_close($stmt);

//And Search Again for Actors
//Create the wildcard search string for the query
$search = '%'.$search.'%';

//Create the query string with marker for the search string
$query = "SELECT CONCAT(fname, ' ', lname), actID
          FROM ACTOR
          WHERE (CONCAT(fname, ' ', lname) LIKE ?)";

//Prepare the query statement
if ($stmt = mysqli_prepare($link, $query)) {
    //Bind the parameter $srch to the ? marker in the query string
    mysqli_stmt_bind_param($stmt, 's', $search);

    //Execute the query statement
    mysqli_stmt_execute($stmt);

    //Bind the result to the variables $name, $actID
    mysqli_stmt_bind_result($stmt, $name, $actID);

```

```

//Store the result so we can get the number of rows
mysqli_stmt_store_result($stmt);

//Find out how many rows in the result
$rows = mysqli_stmt_num_rows($stmt);
echo "<br><p>$rows Actors match the search<br>";

//If the list has elements, print them
if ($rows > 0) {
    //Loop through the rows of the result and print
    while (mysqli_stmt_fetch($stmt)) {
        echo "<p><a href =
'actorinfo.php?actorID=$actID&actorName=$name'>$name</a>";
    }
}
else{
    echo "<p>No Actors match<br>";
}
}
//Close the statement
mysqli_stmt_close($stmt);

//Close the connection
mysqli_close($link);
?>
</body>
</html>

```



CHECK\_LOGIN.PHP

```
<?php
    //Author: David Iacono
    //CSC 436 Database Management Systems
    //Spring 2015 DiPippo
    //Using Fellowship Technologies HTML Code Standards:
    http://developer.fellowshipone.com/patterns/code.php

    //This PHP class checks the login information to verify the customer's credentials

    //Create session
    session_start();

    //Collect session and post tokens
    $session_token = $_SESSION['token'];
    $post_token = $_POST['token'];

    //Compare session and post tokens
    if($session_token != $post_token) {
        die("Token mismatch");
    }

    //Retrieve username and password from post
    $uname = $_POST['uname'];
    $pword = $_POST['pword'];

    //Hash the password
    $hash_pword = md5(uniqid($pword, TRUE));

    //Connect to the database
    include 'connect.php';

    //Retrieve the customer ID from the database with the given username
    //Create query string to look up password
    $query = "SELECT password, custid
    FROM CUSTOMER
    WHERE username = ?";

    //Prepare the query statement
    if (!$stmt = mysqli_prepare($link, $query)) {
        die("Error in query");
    }

    //Bind the parameter $uname to the ? marker in the query string
    mysqli_stmt_bind_param($stmt, 's', $uname);

    //Execute the query statement
    mysqli_stmt_execute($stmt);
```

```

//Bind the result to the variables $retrievedPwd and $cnum
mysqli_stmt_bind_result($stmt, $retrievedPwd, $cnum);

//If no result returned from database, redirect to login page
if(!mysqli_stmt_fetch($stmt)){
    header('Location: login.php');
}

//Verify password using php function
$valid = password_verify($hash_pword, $retrievedPwd);

//Compare the hashed passwords
if(!$hash_pword === $retrievedPwd){
    //Incorrect password. Redirect to login_form.
    $_SESSION['cnum'] = "";
    header('Location: login.php');
}
else {
    //Redirect to home page after login.
    //Set session variable cnum to the customer number collected from the query
    $_SESSION['cnum'] = $cnum;
    header('Location: streamtv.php');
}

//Close the SQL stream
mysqli_close();
?>

```

CONNECT.PHP

<?php

//Author: David Iacono

//CSC 436 Database Management Systems

//Spring 2015 DiPippo

//Using Fellowship Technologies HTML Code Standards:

<http://developer.fellowshipone.com/patterns/code.php>

//Connect to the private connect

include "/home/diacono/private/real\_connect.php";

?>

CUST\_QUEUE.PHP

```

<?php
    //Author: David Iacono
    //CSC 436 Database Management Systems
    //Spring 2015 DiPippo
    //Using Fellowship Technologies HTML Code Standards:
    http://developer.fellowshipone.com/patterns/code.php

    //This PHP class shows the customer's show queue.

    //Create session
    session_start();

    //If the session variable cnum is set, store the variable. Otherwise
    //store empty customer number.
    //This page is only accessible if customer is logged in.

    if(isset($_SESSION['cnum'])){
        $cnum = $_SESSION['cnum'];
    }
    else{
        $cnum = "";
    }
?>

```

```

<!-- Header used for all pages on the site -->

```

```

<html>
    <center>
        <b>
            <font font = 'Calibri' size=+4>
                <a href="streamtv.php">
                    streamTV
                </a>
            </font>
        </b>
        <hr WIDTH="100%">
    </center>
    <body style="font-family:'Calibri'">
    </body>
</html>

```

```

<!-- Display Shows that have been queued by the customer -->

```

```

<?php
    // Include the connect.php file to connect to the database.
    include 'connect.php';

    //Create the query for user information
    $query = "SELECT CONCAT(fname, ' ', lname), email

```

```

        FROM CUSTOMER
        WHERE custID = ?";

//Prepare the query statement
if(!$stmt = mysqli_prepare($link, $query)){
    die("Error in query.");
}

//Bind the parameter $cnum to the ? marker in the query string
mysqli_stmt_bind_param($stmt, 's', $cnum);

//Execute the query statement
mysqli_stmt_execute($stmt);

//Bind the result to the variables $name, $email
mysqli_stmt_bind_result($stmt, $name, $email);

if(mysqli_stmt_fetch($stmt)){
    echo "TV Show Information For $name<br>$email";
}
else{
    echo "ERROR FETCHING INFO";
}

mysqli_stmt_close($stmt);

//Create the query string with marker for custID
$query = "SELECT title, Q.showID, datequeued
        FROM CUST_QUEUE Q, CUSTOMER C, SHOWS S
        WHERE C.custID = Q.custID AND
              S.showID = Q.showID AND
              C.custID = ?";

//Prepare the query statement
if(!$stmt = mysqli_prepare($link, $query)){
    die("Error in query");
}

//Bind the parameter $cnum to the ? marker in the query string
mysqli_stmt_bind_param($stmt, 's', $cnum);

//Execute the query statement
mysqli_stmt_execute($stmt);

//Bind the result to the variables $showTitle, $showID, $dateQueued
mysqli_stmt_bind_result($stmt, $showTitle, $showID, $dateQueued);

//Store the result so we can get number of rows

```

```

mysqli_stmt_store_result($stmt);

//Get the number of rows in the result
$rows = mysqli_stmt_num_rows($stmt);

if($rows > 0){
    //Create a table to display the results
    echo "<p>streamTV Queue:<br>";
    echo "<table border=1><tr><td>SHOW TITLE</td><td>DATE QUEUED</td><td>LIST
WATCHED EPISODES</td></tr>";

    //Display result set
    while (mysqli_stmt_fetch($stmt)) {
        echo "<td><a href =
'showinfo.php?showID=$showID'>$showTitle</a></td><td>$dateQueued</td>";
        echo "<td><a href =
'watched_info.php?showID=$showID&title=$showTitle&name=$name'><b>X</a></td></tr>";
    }

    echo "</table>";
}
else{
    //No shows queued
    echo "<p>No shows Queued.<br>";
}

//Close the statement
mysqli_stmt_close($stmt);

//Close the database link
mysqli_close($link);
?>

```

EPISODEINFO.PHP

```
<?php
    //Create session
    session_start();

?>

<!--
    Author: David Iacono
    CSC 436 Database Management Systems
    Spring 2015 DiPippo
    Using Fellowship Technologies HTML Code Standards:
    http://developer.fellowshipone.com/patterns/code.php

    Display episode information
-->

<html>
    <!-- Header used for all pages on the site -->
    <center>
        <b>
            <font size=+4>
                <a href="streamtv.php">
                    streamTV
                </a>
            </font>
        </b>
        <hr WIDTH="100%"></hr>
    </center>

    <body style="font-family:'Calibri'">
        <!-- Title of the page -->
        <b class="newStyle1">The television show you searched for: </b>

        <?php
            //Include the connect.php file for connections to the database.
            include 'connect.php';

            //Get post data for showID and episodeID
            $showID = $_GET['showID'];
            $episodeID = $_GET['episodeID'];

            //Create the query as a string with markers for showID and episodeID
            $query = "SELECT S.title, E.title, airdate
                    FROM SHOWS S,EPISODE E
                    WHERE S.showID=E.showID AND E.showID=? AND
E.episodeID=?";

            //Set up the sql statement
```

```

if($stmt = mysqli_prepare($link, $query)){
    //Bind the parameter $showID and $episodeID to the ? markers in the
query string
    mysqli_stmt_bind_param($stmt, 'ss', $showID,$episodeID);

    //Execute the query statement
    mysqli_stmt_execute($stmt);

    //Bind the result to the variables $showTitle,$episodeTitle,$airDate
    mysqli_stmt_bind_result($stmt, $showTitle, $episodeTitle, $airDate);

    //Get the result and print it
    if(mysqli_stmt_fetch($stmt)){
        echo "<br>Show: <a
href='showinfo.php?showID=$showID'>$showTitle</a>
        <br>Episode: <i>$episodeTitle</i>
        <br>Original Air Date: $airDate";
    }
    else {
        echo "<br>Television Show not found";
    }

    //Close the statement
    mysqli_stmt_close($stmt);
}

//Allow customer to view if loggedin
if($_SESSION['cnum'] != ""){
    //Create the query to get the showID's from the customer's queue
    echo "<p><a href =
'nnewwatched.php?showID=$showID&episodeID=$episodeID&showTitle=$showTitle&episodeTitle=$epis
odeTitle'>
        Watch This Episode</a>";
}

//Query for Main Cast
echo "<p><b>Main Cast:</b></p>";

$query = "SELECT CONCAT(fname, ' ',lname), M.actID, role
        FROM MAIN_CAST M, ACTOR A
        WHERE M.actID=A.actID AND showID=?
        ORDER BY lname";

if($stmt = mysqli_prepare($link, $query)){
    //Bind the parameter $showID to the ? marker in the query string
    mysqli_stmt_bind_param($stmt, 's', $showID);

    //Execute the query statement

```



```

mysqli_stmt_execute($stmt);

//Bind the result to the variables $actorName,$actID,$actorRole
mysqli_stmt_bind_result($stmt, $actorName,$actID,$actorRole);

//Get the result and print it
while(mysqli_stmt_fetch($stmt)){
    echo "<a href =
'actorinfo.php?actorID=$actID&actorName=$actorName'>$actorName </a>
        as <i>$actorRole</i><br>";
    }
}
//Close the statement
mysqli_stmt_close($stmt);

//Query for Recurring Cast
echo "<p><b>Episode Cast:";

$query = "SELECT CONCAT(fname, ' ',lname), RECURRING_CAST.actID,
role, COUNT(*)
FROM RECURRING_CAST, ACTOR
WHERE RECURRING_CAST.actID=ACTOR.actID AND
showID=? AND episodeID=?
GROUP BY CONCAT(fname, ' ',lname)
ORDER BY lname";

if ($stmt = mysqli_prepare($link, $query)) {
    //Bind the parameter $showID,$episodeID to the ? markers in the query
    string
    mysqli_stmt_bind_param($stmt, 'ss', $showID, $episodeID);

    //Execute the query statement
    mysqli_stmt_execute($stmt);

    //Bind the result to the variables
    $actorName,$actID,$actorRole,$numAppeared
    mysqli_stmt_bind_result($stmt,
    $actorName,$actID,$actorRole,$numAppeared);

    mysqli_stmt_store_result($stmt);
    $rows = mysqli_stmt_num_rows($stmt);

    echo " ($rows)</b><br>";
    if($rows > 0){
        //Display the results
        while(mysqli_stmt_fetch($stmt)){
            echo "<p><a href =
'actorinfo.php?actorID=$actID&actorName=$actorName'>$actorName</a>

```

```
as <i>$actorRole</i><br>";
    }
}
else{
    echo "No Episode Cast.";
}
}

//Close the statement
mysqli_stmt_close($stmt);

//Close the link to the database
mysqli_close($link);
?>
</body>
</html>
```

## LOGIN.PHP

```

<?php
    // Uses session to send token for CSRF verification
    // Start the session
    session_start();

    // Compute a token to be passed with this post form to guard against CSRF attack
    if (!isset($_SESSION['token'])) {
        $_SESSION['token'] = md5(uniqid(rand(), TRUE));
    }

    $token = $_SESSION['token'];
?>

<!--
    Author: David Iacono
    CSC 436 Database Management Systems
    Spring 2015 DiPippo
    Using Fellowship Technologies HTML Code Standards:
    http://developer.fellowshipone.com/patterns/code.php

    Login form to allow customer to log into the system.
    Fill in form with username and password.
    Data sent to check_login.php using POST method.
-->

<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
        <title>Login Form</title>
    </head>

    <body style="font-family:'Calibri'">
        <!-- Header used for all pages on the site -->
        <center>
            <b>
                <font size=+4>
                    <a href="streamtv.php">
                        streamTV
                    </a>
                </font>
            </b>
            <hr WIDTH="100%">
        </center>

        <!-- Create login form -->
        <form id="form1" name="form1" method="post" action="check_login.php">
            <input type="hidden" name="token" value="<?php echo $token; ?>" />

```

```
<table width="510" border="0" align="center">
  <tr><td colspan="2">Login Form</td></tr>
  <tr><td>Username:</td><td><input type="text" name="uname"
id="uname" /></td></tr>
  <tr><td>Password:</td><td><input type="password" name="pword"
id="pword" /></td></tr>
  <tr><td>&nbsp;</td><td><input type="submit" name="button"
id="button" value="Submit" /></td></tr>
</table>
</form>
</body>
</html>
```

LOGOUT.PHP

```
<?php
    //start session
    session_start();

    //Reset session variable cnum to empty and redirect to home page.
    $_SESSION['cnum'] = "";
    header('Location: streamtv.php');
?>

<!--
    Author: David Iacono
    CSC 436 Database Management Systems
    Spring 2015 DiPippo
    Using Fellowship Technologies HTML Code Standards:
    http://developer.fellowshipone.com/patterns/code.php

    This class logs the user out of their session.
-->
<html>
    <head>
        <title>streamTV</title>
    </head>
</html>
```

NEWWATCHED.PHP

```
<?php
    //Start session
    session_start();

?>

<!--
    Author: David Iacono
    CSC 436 Database Management Systems
    Spring 2015 DiPippo
    Using Fellowship Technologies HTML Code Standards:
    http://developer.fellowshipone.com/patterns/code.php

    This displays the watched shows
-->

<html>
    <body style="font-family:'Calibri'">
        <!-- Header used for all pages on the site -->
        <center>
            <b>
                <font size=+4>
                    <a href="streamtv.php">
                        streamTV
                    </a>
                </font>
            </b>
            <hr WIDTH="100%">
        </center>

        <?php
            //Confirm session IDs match
            if(isset($_SESSION['cnum'])){
                $cID=$_SESSION['cnum'];
            }
            else{
                $cID="";
            }

            //if not logged in, redirect to main page
            if($cID==""){
                header("Location: index.php");
            }

            else{
                //connect to database to add as watched
                include 'connect.php';
```

```

//get URL Parameters
$showID = $_GET['showID'];
$episodeID = $_GET['episodeID'];
$showTitle = $_GET['showTitle'];
$episodeTitle = $_GET['episodeTitle'];
$date= date("Y-m-d");
echo "Now watching <i><b>$showTitle</b></i>";
echo "<br>Episode: <i><b>$episodeTitle</b></i></br>";

//SQL statement for watched shows
$query = "INSERT INTO WATCHED (custID, showID, episodeID,
datewatched)
VALUES (?, ?, ?, ?)";

//Prepare the statement
if(!$stmt = mysqli_prepare($link,$query)){
    die("Error in Query");
}

//Bind $cID,$showID,$episodeID,$date to ? markers
mysqli_stmt_bind_param($stmt,"ssss", $cID, $showID, $episodeID,
$date);

//Execute the Query Statement
mysqli_stmt_execute($stmt);

//close the Query
mysqli_stmt_close($stmt);
mysqli_close($link);
}
?>

<iframe width="1280" height="720"
src="https://www.youtube.com/watch?v=dQw4w9WgXcQ" frameborder="0" allowfullscreen></iframe>
</body>
</html>

```

## QUEUESHOW.PHP

```

<?php
    //Author: David Iacono
    //CSC 436 Database Management Systems
    //Spring 2015 DiPippo
    //Using Fellowship Technologies HTML Code Standards:
    http://developer.fellowshipone.com/patterns/code.php
    session_start();

    //get the session information
    if(isset($_SESSION['cnum'])){
        $custID = $_SESSION['cnum'];
    }
    else{
        $custID = "";
    }

    //Gather URL Parameters
    $showID = $_GET['showID'];

    //If Customer is logged In, add the show to their Queue.
    //Otherwise, Redirect to main page to avoid error.
    if($custID == ""){

        header('Location: index.php');
    }
    else{
        //connect to database
        include 'connect.php';

        //set the date queued to todays date
        $dateQueued = date('Y-m-d');

        //String Query for Inserting into Queue
        $query = "INSERT INTO CUST_QUEUE (custID, showID, dateQueued)
                VALUES (?, ?, ?)";

        if(!$stmt = mysqli_prepare($link,$query)){
            die("Error in Query");
        }

        //Replace ? markers with $custID $showID, and $dateQueued
        mysqli_stmt_bind_param($stmt,'sss',$custID,$showID,$dateQueued);

        //Execute the Query
        mysqli_stmt_execute($stmt);

        //after inserting has been completed, allow a hyperlink to the customer's queue
    }

```



```
echo "Queue Update Successful! -- <a href = 'cust_queue.php'>View Queue</a>";

//close the query
mysqli_stmt_close($stmt);

//close the connection to the database
mysqli_close($link);

}

?>

<center>
  <b>
    <font size=+4>
      <a href="streamtv.php">
        streamTV
      </a>
    </font>
  </b>
  <hr WIDTH="100%">
</center>
```

## REGISTER.PHP

&lt;!--

Author: David Iacono  
 CSC 436 Database Management Systems  
 Spring 2015 DiPippo  
 Using Fellowship Technologies HTML Code Standards:  
<http://developer.fellowshipone.com/patterns/code.php>

Registers new in database  
 -->

```
<html>
  <head>
    <title>streamTV</title>
  </head>

  <body style="font-family:'Calibri'">
    <?php
      //set membersince and renewal dates for the new user
      //Today's date in YYYY-MM-DD Format
      $membersince = date("Y-m-d");

      //Renewal Date in 1 year from Today.
      $renewaldate = date('Y-m-d', strtotime('+1 year'));

      //Hash the password to be stored securely in the database
      //$hashed_pword = hash('sha256', $pword1);
      $hash_pword = md5(uniqid($pword1, TRUE));

      //Connect to the database
      include 'connect.php';

      //Create query string with marker for $uname
      $query = "SELECT *
                FROM CUSTOMER
                WHERE username = ?";

      //Prepare the query statement
      if(!$stmt = mysqli_prepare($link, $query)){
        die("Error in query");
      }

      //Bind the parameter $uname to ? marker in the query string
      mysqli_stmt_bind_param($stmt, 's', $uname);

      //Execute the query statement
      mysqli_stmt_execute($stmt);
```

```

//Store the result so we can get number of rows
mysqli_stmt_store_result($stmt);

//Find out how many rows in the result
$rows = mysqli_stmt_num_rows($stmt);

if ($rows != 0) {
    //if username already exists, offer to try again to register or
    //log in with existing username
    echo "Username $uname already exists.
    <p> Register with a new username: <a href=
'registration.php'>REGISTER</a>
    <p> Log in with your existing username: <a
href='login.php'>LOGIN</a>";

    //Close statement
    mysqli_stmt_close($stmt);
}
else{
    //Create new custID to add the customer to the database
    //Query the current Max ID
    $query = "SELECT MAX(custID) FROM CUSTOMER";
    $stmt = mysqli_prepare($link, $query);

    //Execute the query statement
    mysqli_stmt_execute($stmt);

    //Bind the result to the variable #maxID
    mysqli_stmt_bind_result($stmt, $maxID);
    mysqli_stmt_fetch($stmt);

    //Seperate the prefix from the ID#
    $custID = substr($maxID,0,4);
    $idNum = (int)substr($maxID,-3);

    //Set New Customer's ID to the next available ID number
    //Assume there are no deleted customers so there are no missing ID's
    $custID = $custID.str_pad($idNum + 1,3,"0",STR_PAD_LEFT);

    //close the query
    mysqli_stmt_close($stmt);
    //
    //NEEDS HELP ABOVE
    //
    //Create query to submit the registration information to the database
    $query = "INSERT INTO CUSTOMER (custID, fname, lname, email,
membersince, renewaldate, password, username)

```

```

VALUES ( ?, ?, ?, ?, ?, ?, ?, ?)";

//Prepare the query statement
if (!$stmt = mysqli_prepare($link, $query)) {
    die("Error in query");
}

//Bind parameters to markers
mysqli_stmt_bind_param($stmt, 'sssssss', $custID, $fname, $lname,
$email, $membersince, $renewaldate, $hash_pword, $uname);

//Execute the query statement
mysqli_stmt_execute($stmt);

echo "Registration successful -- <a href = 'login.php'>LOGIN</a>";

//Close the statement
mysqli_stmt_close($stmt);
}

//Close the connection
mysqli_close($link);
?>
</body>
</html>

```

## REGISTRATION.PHP

```

<!--
    Author: David Iacono
    CSC 436 Database Management Systems
    Spring 2015 DiPippo
    Using Fellowship Technologies HTML Code Standards:
    http://developer.fellowshipone.com/patterns/code.php
-->

<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
        <title>Registration</title>
    </head>
    <body style="font-family:'Calibri'">
        <!-- Header used for all pages on the site -->
        <center>
            <b>
                <font size=+4>
                    <a href="streamtv.php">
                        streamTV
                    </a>
                </font>
            </b>
            <hr WIDTH="100%">
        </center>

        <?php
            //Data verification section
            //The first time the data is posted from the form, each form variable
            //is checked here.

            //Define variables and set to empty values
            $unameErr = $pword1Err = $pword2Err = "";
            $fnameErr = $lnameErr = $emailErr = $misatchErr = $tokenErr = "";
            $uname = $pword1 = $pword2 = $fname = $lname = $email = $match = "";

            //Test the data entered into the form to make sure that required fields are
            //entered, password is verified, remove dangerous characters

            if($_SERVER["REQUEST_METHOD"] == "POST"){
                $allCorrect = true;
                if (empty($_POST["uname"])) {
                    $unameErr = "Username is required";
                    $allCorrect = false;
                }
                else{
                    $uname = test_input($_POST["uname"]);

```

```

}

if (empty($_POST["pword1"])) {
    $pword1Err = "Password is required";
    $allCorrect = false;
}
else{
    $pword1 = test_input($_POST["pword1"]);
}

if(empty($_POST["pword2"])){
    $pword2Err = "Password verification is required";
    $allCorrect = false;
}
else{
    $pword2 = test_input($_POST["pword2"]);

    if (empty($_POST["fname"])) {
        $fnameErr = "First name is required";
        $allCorrect = false;
    }
    else{
        $fname = test_input($_POST["fname"]);
    }

    if(empty($_POST["lname"])){
        $lnameErr = "Last name is required";
        $allCorrect = false;
    }
    else{
        $lname = test_input($_POST["lname"]);
    }
}

if(empty($_POST["email"])){
    $emailErr = "Email is required";
    $allCorrect = false;
}
else{
    $email = test_input($_POST["email"]);
}

if($pword1 != $pword2){
    $mismatchErr = "Password verification does not match";
    $allCorrect = false;
}
else{
    $match = "match";
}

```

```

    }

    if($_POST['token'] != $token){
        $tokenErr = "Token failure".$_POST['token'];
        $allCorrect = false;
    }

    if ($allCorrect){
        //When all of the data passes the verification, session variables
        //and page is redirected to register.php

        require_once "register.php";
        exit();
    }
}

//Function to test the data to remove dangerous characters
function test_input($data){
    $data = trim($data);
    $data = stripslashes($data);
    $data = htmlspecialchars($data);
    return $data;
}

?>

<!-- Form for registration data.
Includes one hidden item to send the token with the form when it posts.
-->

<form name = "register" method="post"
    action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);?>"
    <input type="hidden" name="token" value="<?php echo $token; ?>" />
    <table border="0">
        <tr>
            <td colspan="2"><p><strong>Registration
Form</strong></p></td>
            </tr>
            <tr>
                <td>Username:</td>
                <td><input type="text" name="uname"
maxlength="20"
value="<?php echo $uname;?>" />*</td>
                <td><span class="error"><?php echo $unameErr;?>
</span></td>
            </tr>
            <tr>
                <td>Password:</td>

```

```

        <td><input type="password" name="pword1" /*></td>
        <td><span class="error"><?php echo $pword1Err;?>
</span></td>
    </tr>
    <tr>
        <td>Confirm Password:</td>
        <td><input type="password" name="pword2" /*></td>
        <td><span class="error"> <?php echo
$word2Err;?></span></td>
    </tr>
    <tr>
        <td>First Name:</td>
        <td><input type="text" name="fname" id="fname"
value="" /*></td>
        <td><span class="error"><?php echo $fnameErr;?> </span>
</td>
    </tr>
    <tr>
        <td>Last Name:</td>
        <td><input type="text" name="lname" id="lname"
value="" /*></td>
        <td><span class="error"> <?php echo $lnameErr;?></span>
</td>
    </tr>
    <tr>
        <td>Email:</td>
        <td><input type="text" name="email" id="email"
value="" /*></td>
        <td><span class="error"><?php echo $emailErr;?>
</td>
    </tr>
    <tr>
        <td>&nbsp;</td>
        <td><input type="submit" value="Register" /*></td>
    </tr>
</table>
</form>
</body>
</html>

```



SHOW\_EPISODE.PHP

```
<?php
    session_start();
?>
```

```
<!--
```

```
    Author: David Iacono
    CSC 436 Database Management Systems
    Spring 2015 DiPippo
    Using Fellowship Technologies HTML Code Standards:
    http://developer.fellowshipone.com/patterns/code.php
```

```
    Display the Episodes of a Specific Show
-->
```

```
<html>
```

```
    <body style="font-family:'Calibri'">
        <!-- Header used for all pages on the site -->
        <center>
            <b>
                <font size=+4>
                    <a href="streamtv.php">
                        streamTV
                    </a>
                </font>
            </b>
            <hr WIDTH="100%">
        </center>
```

```
    <?php
        if(isset($_SESSION['cnum'])){
            $custID = $_SESSION['cnum'];
        }
        else{
            $custID = "";
        }
```

```
        //Get URL Params
        $sID = $_GET['showID'];
        $sTitle = $_GET['showTitle'];
```

```
        //connect to database
        include 'connect.php';
```

```
        //Query for the Season, episodeID, title, and Airdate of all episodes from a given
```

ShowID

```
        $query = "SELECT SUBSTRING(episodeID,1,1), episodeID, title, airdate
                  FROM EPISODE
```

```

WHERE showID = ?";

//prepare the Statement
if(!$stmt = mysqli_prepare($link,$query)){
    die("Error in Query");
}

//bind the ? marker with the variable //sID
mysqli_stmt_bind_param($stmt,"s", $sID);

//Execute the Query
mysqli_stmt_execute($stmt);

//bind the Result into the variables $season,$episodeID,$eTitle,$airdate
mysqli_stmt_bind_result($stmt,$season,$episodeID,$eTitle,$airdate);

// Create a table to display the results
echo "<p>Episodes of <i>$sTitle</i> <br>";
echo "<table border=1><tr><td>SEASON</td><td>TITLE</td><td>AIR
DATE</td></tr>";

//Iterate through result set
while (mysqli_stmt_fetch($stmt)) {
    echo "<td><center>$season</center></td>";
    echo "<td><a href=
'episodeinfo.php?showID=$sID&episodeID=$episodeID'>$eTitle</a></td>";
    echo "<td>$airdate</td></tr>";
}
echo "</table>";

#close the Query
mysqli_stmt_close($stmt);
mysqli_close($link);

?>
</body>
</html>

```

SHOWINFO.PHP

```

<?php
    //Create session
    session_start();

?>

<!--
    Author: David Iacono
    CSC 436 Database Management Systems
    Spring 2015 DiPippo
    Using Fellowship Technologies HTML Code Standards:
    http://developer.fellowshipone.com/patterns/code.php

    Display details about a specific show
-->

<html>
    <body style="font-family:'Calibri'">
        <!-- Header used for all pages on the site -->
        <center>
            <b>
                <font size=+4>
                    <a href="streamtv.php">
                        streamTV
                    </a>
                </font>
            </b>
            <hr WIDTH="100%">
        </center>

        <b>The television show you searched for: </b>

        <?php
            //Include the connect.php file for connections to the database.
            include 'connect.php';

            //Use the _GET method for getting variables passed through from the
            //previous page.
            $showID = $_GET['showID'];

            //Create the query as a string with marker for showID
            $query = "SELECT showID, title, premiere_year, network, creator,
category
                                FROM SHOWS
                                WHERE showID=?";

            if($stmt = mysqli_prepare($link, $query)){
                //Bind the parameter $showID to the ? marker in the query string

```

```

mysqli_stmt_bind_param($stmt, 's', $showID);

//Execute the query statement
mysqli_stmt_execute($stmt);

//Bind the result to the variables $showID, $title, $pYear, $network,
$creator, $category
mysqli_stmt_bind_result($stmt, $showID, $title, $pYear, $network,
$creator, $category);

//Get the result and print it
//var_dump(mysqli_stmt_fetch($stmt));
if(mysqli_stmt_fetch($stmt)){
    echo "<br>Title: $title
    <br>Premiere Year: $pYear
    <br>Network: $network
    <br>Creator: $creator
    <br>Category: $category<br>
    <br>View <a href =
'show_episodes.php?showID=$showID&showTitle=$title'>All Episodes</a><br>";
}
else{
    echo "<br>Television Show not found";
}
//Close the statement
mysqli_stmt_close($stmt);
}

//If customer is Logged In,
//Allow to Queue, if show does not already exists.

if($_SESSION['cnum'] != ""){
    $custID = $_SESSION['cnum'];
    //Create the query to get the showID's from the customer's queue
    $query = "SELECT showID
              FROM CUST_QUEUE
              WHERE custID=? AND showID=?";

    if(!$stmt = mysqli_prepare($link, $query)){
        die("Error in Query");
    }

    //Bind the parameter $custID and $showID to the ? marker in the query
    string
    mysqli_stmt_bind_param($stmt, 'ss', $custID, $showID);

    //Execute the query statement
    mysqli_stmt_execute($stmt);

```

```

//Bind the result to the variables $name and $price
mysqli_stmt_bind_result($stmt, $showID);

//Execute the query statement
mysqli_stmt_execute($stmt);

//Store the result so we can get the number of rows
mysqli_stmt_store_result($stmt);

//Find out how many rows in the result
$rows = mysqli_stmt_num_rows($stmt);

//if logged in, and show does not already exist in queue, allow to add to
queue.
if($rows === 0){
    echo "<br><a href= 'queueshow.php?showID=$showID'>Add to
Queue</a><br>";
}

//Close the statement
mysqli_stmt_close($stmt);
}

//Query for Main Cast
echo "<p><b>Main Cast:</b></p>";

$query = "SELECT CONCAT(fname, ' ', lname), MAIN_CAST.actID, role
          FROM MAIN_CAST, ACTOR
          WHERE MAIN_CAST.actID=ACTOR.actID AND showID=?
          ORDER BY lname";

if($stmt = mysqli_prepare($link, $query)){
    //Bind the parameter $showID to the ? marker in the query string
    mysqli_stmt_bind_param($stmt, 's', $showID);

    //Execute the query statement
    mysqli_stmt_execute($stmt);

    //Bind the result to the variables $actorName,$actID,$actorRole
    mysqli_stmt_bind_result($stmt, $actorName, $actID, $actorRole);

    //Get the result and print it
    while(mysqli_stmt_fetch($stmt)){
        echo "<a href =
'actorinfo.php?actorID=$actID&actorName=$actorName'>$actorName </a>
as $actorRole<br>";
    }
}

```

```

    }
}
//Close the statement
mysqli_stmt_close($stmt);

//Query for Recurring Cast
echo "<p><b>Recurring Cast:</b></p>";

$query = "SELECT CONCAT(fname, ' ', lname), RECURRING_CAST.actID,
role, COUNT(*)
FROM RECURRING_CAST, ACTOR
WHERE RECURRING_CAST.actID=ACTOR.actID AND
showID=?
GROUP BY CONCAT(fname, ' ', lname)
ORDER BY lname";

if ($stmt = mysqli_prepare($link, $query)) {
    //Bind the parameter $showID to the ? marker in the query string
    mysqli_stmt_bind_param($stmt, 's', $showID);

    //Execute the query statement
    mysqli_stmt_execute($stmt);

    //Bind the result to the variables
    $actorName,$actID,$actorRole,$numAppeared
    mysqli_stmt_bind_result($stmt,
    $actorName,$actID,$actorRole,$numAppeared);

    //Get the result and print it
    while(mysqli_stmt_fetch($stmt)) {
        echo "<a href =
'actorinfo.php?actorID=$actID&actorName=$actorName'>$actorName</a>
appeared in $numAppeared episodes as
<i>$actorRole</i><br>";
    }
}
//Close the statement
mysqli_stmt_close($stmt);

//Close the link to the database
mysqli_close($link);

?>
</body>
</html?

```

STREAMTV.PHP

```

<?php
    session_start();
    require_once "connect.php";
?>

<!--
    Author: David Iacono
    CSC 436 Database Management Systems
    Spring 2015 DiPippo
    Using Fellowship Technologies HTML Code Standards:
    http://developer.fellowshipone.com/patterns/code.php
-->

<html>
    <head>
    <title> streamTV </title>
    </head>

    <body style="font-family:'Calibri'">
        <?php
            if (!isset($_SESSION['cnum'])) {
                $_SESSION['cnum'] = "";
            }
        ?>

        <!-- Header used for the whole site -->
        <center>
            <b>
                <font size=+4>
                    <a href="streamtv.php">
                        streamTV
                    </a>
                </font>
            </b>
            <hr WIDTH="100%">
        </center>

        <!-- Search for a TV show -->
        <form action = "all_search.php" method = "post">
            Search for a TV show or actor by title: <input name="newSearch" type="text">
            <input type="submit" name="submit" value="Submit!">
        </form>

        <?php
            if($_SESSION['cnum'] == ""){
                echo "<a href = 'login.php'>Login</a> as an existing customer.

```

```
customer.";
    }
    else{
        echo "View your <a href = 'cust_queue.php'>queued shows</a>.
        <p><a href = 'logout.php'>Logout</a>.";
    }
?>
<p>
</body>
</html>
```



WATCHED\_INFO.PHP

```
<?php
    //Start a session
    session_start();
?>

<!--
    Author: David Iacono
    CSC 436 Database Management Systems
    Spring 2015 DiPippo
    Using Fellowship Technologies HTML Code Standards:
    http://developer.fellowshipone.com/patterns/code.php

    Display Episodes watched by the customer given a specific show
-->

<html>
    <head>
        <title> streamTV </title>
    </head>
    <body style="font-family:'Calibri'">
        <?php
            if(isset($_SESSION['cnum'])){
                $cnum = $_SESSION['cnum'];
            }
            else{
                $cnum = "";
            }
        ?>

        <!-- Header used for all pages on the site -->
        <center>
            <b>
                <font size=+4>
                    <a href="streamtv.php">
                        streamTV
                    </a>
                </font>
            </b>
            <hr WIDTH="100%">
        </center>

        <?php
            //Get Parameters from URL
            $showID = $_GET['showID'];
            $showTitle = $_GET['title'];
            $name = $_GET['name'];
```

```

//Display the number of episodes watched
echo "<p>Episodes of <b><i>$showTitle</i></b> watched by $name:<br>";

//Include the connect.php file to connect to the database.
include 'connect.php';

//Query for all the watched episodes.
$query = "SELECT E.episodeID, title, datewatched
          FROM WATCHED W, EPISODE E
          WHERE W.episodeID = E.episodeID AND W.custID = ?
          AND W.showID = ? AND E.showID = ?";

if(!$stmt = mysqli_prepare($link, $query)){
    die("Error in Query");
}

//bind the ? markers with variables $cnum, $showID(x2)
mysqli_stmt_bind_param($stmt, 'sss', $cnum, $showID, $showID);

//execute the query
mysqli_stmt_execute($stmt);

//bind the result to variables $episodeID, $episode, $dateWatched
mysqli_stmt_bind_result($stmt, $episodeID, $episode, $dateWatched);

//Store the result so we can get number of rows
mysqli_stmt_store_result($stmt);

//Get the number of rows in the result
$rows = mysqli_stmt_num_rows($stmt);

if ($rows > 0) {
    //Create a table to display the results
    echo "<p><table border=1><tr><td>TITLE</td><td>DATE
WATCHED</td></tr>";

    //Iterate through result set
    while (mysqli_stmt_fetch($stmt)) {
        echo "<td><a
href='episodeinfo.php?showID=$showID&episodeID=$episodeID'>$episode</a></td>";
        echo "<td>$dateWatched</td></tr>";
    }
    echo "</table>";
}
else {
    //No episodes found
    echo "<p> No episodes watched. <br>";
}

```

```
        mysqli_stmt_close($stmt);  
        mysqli_close($link);  
    ?>  
</body>  
</html>
```