CampusNet Class Search

By Toral Zaveri

Abstract

- This project aims to make CIS classes search for students.
- Students can add and drop their classes.
- They can see their schedule after adding their classes.

Implementation

- Languages: HTML, CSS, Javascript, Php, AJAX
- WAMP Server: MySQL.

Login page:

```php
<?php
// Initialize the session
session_start();

// Check if the user is already logged in, if yes then redirect him to welcome page
if(isset($_SESSION["loggedin"]) && $_SESSION["loggedin"] === true){
    header("location: welcome.php");
    exit;
}

// Include config file
require_once "config.php";

// Define variables and initialize with empty values
$username = $password = "";
$username_err = $password_err = "";

// Processing form data when form is submitted
if($_SERVER["REQUEST_METHOD"] == "POST"){
    // Check if username is empty
    if(empty(trim($_POST["username"]))){
        $username_err = "Please enter username.";
    } else{
        $username = trim($_POST["username"]);
    }

    // Check if password is empty
    if(empty(trim($_POST["password"]))){
        $password_err = "Please enter your password.";
    } else{
        $password = trim($_POST["password"]);
    }

    // Validate credentials
    if(empty($username_err) && empty($password_err)){

        // Prepare a select statement
        $sql = "SELECT ID, Password, Lname, Fname FROM student WHERE ID = ? and password = ?";
        if($stmt = mysqli_prepare($link, $sql)){
            //echo $stmt;
            // Bind variables to the prepared statement as parameters
            mysqli_stmt_bind_param($stmt, "ss", $param_username, $param_password);
            // Set parameters
            $param_username = $username;
```

ID	Password	Lname	Fname
1234567	Password	Zaveri	Toral
2345678	Password	Smith	John
3456789	Password	Borg	James
4567890	Password	Wong	Franklin

```php
<?php
/* Database credentials. Assuming you are running MySQL
server with default setting (user 'root' with no password) */
define('DB_SERVER', 'localhost:3308');
define('DB_USERNAME', 'root');
define('DB_PASSWORD', 'Toral123');
define('DB_NAME', 'class');

/* Attempt to connect to MySQL database */
$link = mysqli_connect("localhost:3308", "root", "Toral123", "class");

// Check connection
if($link === false){
    die("ERROR: Could not connect. " . mysqli_connect_error());
}
?>
```

Login page:

```php
// Bind result variables
mysqli_stmt_bind_result($stmt, $id, $hashed_password, $lname, $fname);
if(mysqli_stmt_fetch($stmt)){
    //if(password_verify($password, $hashed_password)){
        // Password is correct, so start a new session
        session_start();
        // Store data in session variables
        $_SESSION["loggedin"] = true;
        $_SESSION["id"] = $id;
        $_SESSION["username"] = $username;
        $_SESSION["fullname"] = $fname.' '.$lname;
        // Redirect user to welcome page
        header("location: welcome.php");
    //} else{
        // Display an error message if password is not valid
        // $password_err = "The password you entered was not valid.";
    //}
    }
} else{
    // Display an error message if username doesn't exist
    $username_err = "Incorrect username or password.";
}
} else{
    echo "Oops! Something went wrong. Please try again later.";
}

// Close statement
```

```html
</head>

<body bgcolor = "white">

    <div class="title">
        <center><img class="animated-gif" src="giphy.gif">
    <center><p><img src="header.jpg">

    <h1><mark>Welcome to CampusNet</mark></h1>
        <p>Please fill in your credentials to login.</p>
        <form action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>" method="post">
            <div class="form-group <?php echo (!empty($username_err)) ? 'has-error' : ''; ?>">
                <label>Login ID:</label>
                <input type="text" name="username" class="form-control" required value="<?php echo $username; ?>">
            <br><br>
            </div>
            <div class="form-group <?php echo (!empty($password_err)) ? 'has-error' : ''; ?>">
                <label>Password:</label>
                <input type="password" name="password" class="form-control" required>
                <br><br>
            </div>
            <span class="help-block"><?php echo $username_err; ?></span>
            <div class="form-group">
                <input type="submit" class="btn btn-primary" value="Login">

            </div>
        </form>
    </div>
</body>
</html>
```

Welcome to CampusNet

Please fill in your credentials to login.

Login ID: [   ]

Password: [   ]

Login

Welcome to CampusNet

Please fill in your credentials to login.

Login ID: dsfs

Password: ••••

Incorrect username or password.

Login

Welcome to CampusNet

Please fill in your credentials to login.

Login ID:

Password

⚠ Please fill out this field.

Login

Welcome Page:

```php
<?php
// Initialize the session
session_start();

// Check if the user is logged in, if not then redirect him to login page
if(!isset($_SESSION["loggedin"]) || $_SESSION["loggedin"] !== true){
    header("location: login.php");
    exit;
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <center><p><img src="header.jpg">

    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.css">
    <style type="text/css">
        body{ font: 14px sans-serif; text-align: center; }

    .btn-danger {
        background-color: forestgreen;
        border: 1;
        color: black;
        padding: 5px 10px;
        text-align: center;
        text-decoration: none;
        display: inline-block;
        font-size: 16px;
        margin: 4px 2px;
        cursor: pointer;
    }

    </style>
</head>
<body>
    <div class="page-header">
        <h1>Hi, <b><?php echo htmlspecialchars($_SESSION["fullname"]); ?></b>. Welcome to ClassSearch.</h1>
    </div>
    <p>
        <p align="right"><a href="logout.php" class="btn btn-danger">Sign Out</a></p><br><br>
        <a href="class.php" class="btn btn-danger">Class Search</a><br><br>
        <a href="schedule.php" class="btn btn-danger">My Class Schedule</a>
    </p>
</body>
</html>
```

Hi, **Toral Zaveri**. Welcome to ClassSearch.

Sign Out

Class Search

My Class Schedule

Class Search Query:

```php
<?php
// Initialize the session
session_start();

if(!isset($_SESSION["loggedin"]) || $_SESSION["loggedin"] !== true){
    header("location: login.php");
    exit;
}

$ser="localhost:3308";
$user="root";
$pass="Toral123";
$db="class";

$con=mysqli_connect($ser, $user, $pass, $db) or die("Connection Failed");

if(mysqli_select_db($con, "class")){
//echo "\n DB is selected successfully";
}
else {echo "\n DB is not selected successfully";}

$output = '';
$count = 0;
if(isset($_POST['search'])) {

    $searchq = $_POST['query'];

    $searchq = preg_replace("#[^0-9a-z]#i", "", $searchq);
    $studentId = $_SESSION["id"];
    //echo $searchq;

    $query = mysqli_query($con, "SELECT * FROM class WHERE ClassNumber not in
        (select CourseID from schedule where studentId = '$studentId') and
        (ClassNumber LIKE '%$searchq%' OR ClassName LIKE '%$searchq%')")
            or die("could not search");
            $count = mysqli_num_rows($query);

        }

?>
```

```html
</style>
<body>
    <div class="page-header">
        <h1>Hi, <b><?php echo htmlspecialchars($_SESSION["fullname"]); ?></b>. Summer 2020 ClassSearch.</h1>


    <div class="search">
        <form action="class.php" method="POST">
            <input type="text" name="query" placeholder="Search by class name or number..."/>
            <input type="submit" name="search" value="Search" />
        <br><br>

        <center>
            <?php

                if($count == 0) {
                    $output = 'There was no search result';
                } else {
            ?>
                <table border="2">
                    <tr><th>Select</th>
                        <th>ClassNumber</th>
                        <th>ClassName</th>
                        <th>ClassTime</th>
                        <th>Days</th>
                        <th>ProfessorName</th>
                    </tr>
                <?php
                while($row = mysqli_fetch_array($query)) {
                    $result = "<tr><td><input type='checkbox' name='classCheck[]' value='".$row['ClassNumber']."'></td><td>"
                    .$row ['ClassNumber']."</td><td>".$row ['ClassName']."</td><td>".$row ['ClassTime']."</td><td>"
                    .$row ['Days']."</td><td>".$row ['ProfessorName']."</td></tr>";
                    echo $result;
                }
                ?>

                </table><br><br>
                <!--<a href="schedule.php" class="btn btn-danger">Submit</a>-->
                <input type="submit" name="submit" value="Submit" class="btn btn-danger" />
            </form>
        <?php
        }

        if(isset($_POST["submit"])) {
            $query = "INSERT INTO schedule (StudentID, CourseID) Values(?, ?)";

            if($stmt = mysqli_prepare($con, $query)){
```

Class Table:

ClassNumber	ClassName	ClassTime	Days	RoomNumber	ProfessorName
CIS 260	Intro to Programming	9:00AM-10:00AM	MW	FH 202	Dr. Dan
CIS 265	Data Structure	10:30AM-11:30AM	MW	FH 201	Mr. Cooper
CIS 335	Language Processor	11:00AM-12:00PM	TTh	FH 306	Mr.Sam
CIS 340	System Programming	1:00PM-2:00PM	TTh	WH 322	Dr. Wang
CIS 345	Operating System	12:30PM-2:00PM	MWF	WH 414	Mr. Brown
CIS 454	Data Communication	2:30PM-3:30PM	TTh	FH 128	Mr. Shri
CIS 430	Data Base Concepts	4:00PM-5:30PM	MW	WH 403	Ms. Chung
CIS 368	Object Oriented Prog	4:30PM-5:30PM	MWF	FH 212	Ms. Zheng

Hi, **Toral Zaveri**. Summer 2020 ClassSearch.

345 | Search

Select	ClassNumber	ClassName	ClassTime	Days	ProfessorName
☐	CIS 345	Operating System	12:30PM-2:00PM	MWF	Mr. Brown

Submit

Class Search: submit

```php
    </table><br><br>
    <!--<a href="schedule.php" class="btn btn-danger">Submit</a>-->
    <input type="submit" name="submit" value="Submit" class="btn btn-danger" />
    </form>
<?php
  }

if(isset($_POST["submit"])) {
    $query = "INSERT INTO schedule (StudentID, CourseID) Values(?, ?)";

    if($stmt = mysqli_prepare($con, $query)){
        mysqli_stmt_bind_param($stmt, "ss", $param_StudentID, $param_CourseID);
        // Set parameters
        $param_StudentID = $_SESSION["id"];

        if(!empty($_POST['classCheck'])){
            // Loop to store and display values of individual checked checkbox.
            foreach($_POST['classCheck'] as $selected){
                $param_CourseID = $selected;
                //echo  "stedentId: ".$_SESSION["id"]." - CourseId:". $selected."</br>";
                // Attempt to execute the prepared statement
                if(mysqli_stmt_execute($stmt)){
                    // Store result
                    mysqli_stmt_store_result($stmt);
                            // Redirect user to schedule page
                    header("location: schedule.php");
```
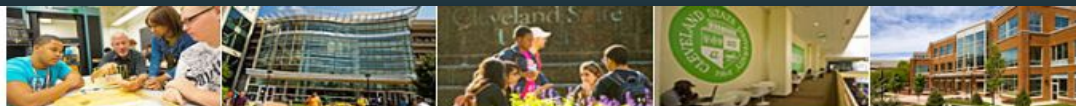
CourseID	StudentID
CIS 345	1234567

Hi, **Toral Zaveri**. Summer 2020 ClassSearch.

345 | Search

Select	ClassNumber	ClassName	ClassTime	Days	ProfessorName
☑	CIS 345	Operating System	12:30PM-2:00PM	MWF	Mr. Brown

Submit

Hi, **Toral Zaveri**. Summer 2020 Class Schedule.

Back to class search

	ClassNumber	ClassName	ClassTime	Days	ProfessorName
Drop	CIS 345	Operating System	12:30PM-2:00PM	MWF	Mr. Brown

```php
<div class="page-header">
    <h1>Hi, <b><?php echo htmlspecialchars($_SESSION["fullname"]); ?></b>. Summer 2020 Class Schedule.</h1>
</div>
<p>
    <form action="schedule.php" method="POST">
  <br><br>

    <center>
     <?php

    if($count == 0) {
     echo "<div>Your schedule is currently empty. Please <a href='class.php'>add</a> some classes</div>";
    } else {
    ?><a href='class.php'>Back to class search</a>
    <br><br>
    <table border="2">
        <tr><th></th>
            <th>ClassNumber</th>
            <th>ClassName</th>
            <th>ClassTime</th>
            <th>Days</th>
            <th>ProfessorName</th>
        </tr>
    <?php
    while($row = mysqli_fetch_array($query)) {
        $result = "<tr><td><span class='delete' id='del_".$row['ClassNumber']."'>Drop</a></td><td>".$row ['ClassNumber']."</td><td>".$row ['ClassName']."</td><td>".$row ['ClassTime']."
        </td><td>".$row ['Days']."</td><td>".$row ['ProfessorName']."</td></tr>";
        echo $result;
    }

    ?>

    </table><br><br>
    <?php
    }?>
    <!--<a href="schedule.php" class="btn btn-danger">Submit</a>-->
    </form>
```

Class Search: remove class

```html
        <!--<a href="schedule.php" class="btn btn-danger">Submit</a>-->
        </form>

</body>
<script type="text/javascript" src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
<script type="text/javascript">
  $(document).ready(function(){

  // Delete
  $('.delete').click(function(){
    var el = this;
    var id = this.id;
    var splitid = id.split("_");

    // Delete id
    var deleteid = splitid[1];

    // AJAX Request
    $.ajax({
      url: 'remove.php',
      type: 'POST',
      data: { id:deleteid },
      success: function(response){
        debugger;
        if(response == 1){
// Remove row from HTML Table
$(el).closest('tr').css('background','tomato');
$(el).closest('tr').fadeOut(800,function(){
    $(this).remove();
});
        }else{
alert('Invalid ID.');
        }
```

```php
<?php
include "config.php";

session_start();

if(!isset($_SESSION["loggedin"]) || $_SESSION["loggedin"] !== true){
    header("location: login.php");
    exit;
}

$ser="localhost:3308";
$user="root";
$pass="Toral123";
$db="class";

$con=mysqli_connect($ser, $user, $pass, $db) or die("Connection Failed");

if(mysqli_select_db($con, "class")){
//echo "\n DB is selected successfully";
}
else {echo "\n DB is not selected successfully";}
$id = $_POST['id'];
//echo $_SESSION["id"];
if($id <> ''){
  // Check record exists
  $checkQuery = "SELECT * FROM schedule WHERE courseId='$id' and studentId =".$_SESSION["id"];
  $checkRecord = mysqli_query($con, $checkQuery) or die("could not search");
  $totalrows = mysqli_num_rows($checkRecord);

  if($totalrows > 0){
    // Delete record
    $query = "DELETE FROM schedule WHERE courseid='".$id."' and studentId =".$_SESSION["id"];
    mysqli_query($con,$query);
    echo 1;
    exit;
```

Hi, **Toral Zaveri**. Summer 2020 Class Schedule.

Back to class search

	ClassNumber	ClassName	ClassTime	Days	ProfessorName
Drop	CIS 345	Operating System	12:30PM-2:00PM	MWF	Mr. Brown

Future Work

- Implementing admin system
  - Add more classes
  - Add grades by their classes
  - GPA
- Schedule planner
- Degree Audit

References

https://www.w3schools.com/

Book: Learning PHP, MySQL, JavaScript, CSS & HTML5: A Step-by-Step Guide to Creating Dynamic Websites

https://stackoverflow.com/