

Week 3 Assignment

Landing, Login, and Enrollment Pages Development

John Home

The University of Arizona Global Campus

CST 499: Capstone for Computer Software Technology

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Running PHP on a desktop is relatively simple. Initially it is required to download the XAMPP files from your location of choice. <https://apachefriends.org/download.html> is a good place to get the files. Once XAMPP has downloaded it is as simple as running the install file with the default settings to get set up.

Once XAMPP is installed all the user has to do is run the XAMPP application and start the Apache and MySQL services from the control console.

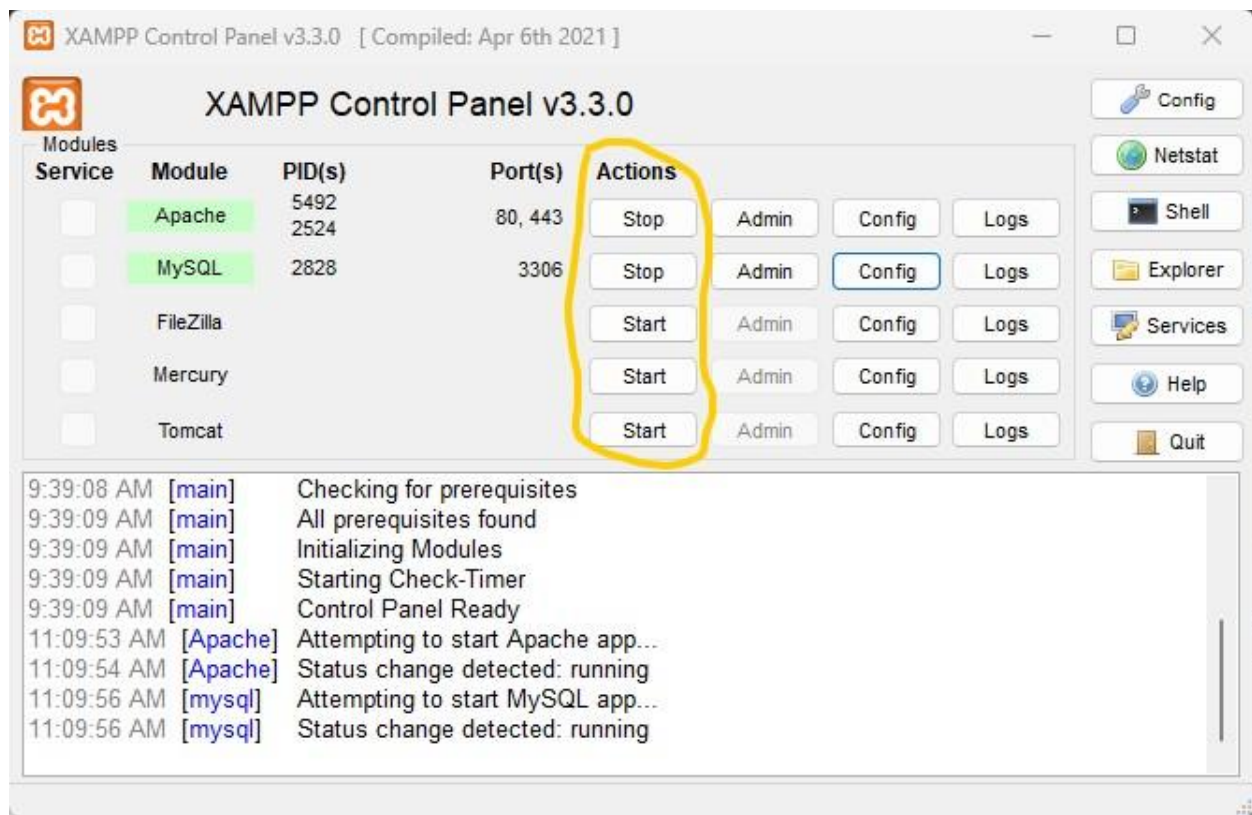
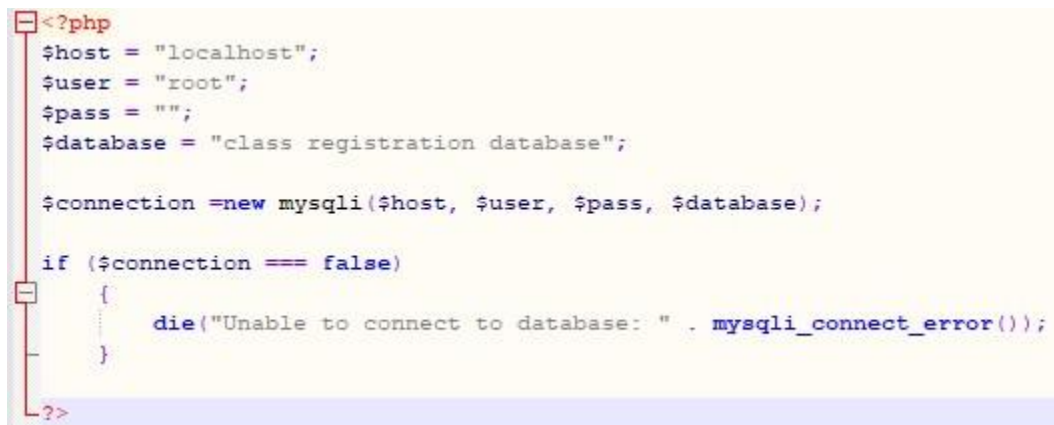


Fig 1.0, XAMPP control console.

This will enable the user to launch PHP documents in their browser as well as link those PHP documents to a MySQL database. With the installation of XAMP a folder is created under the C:\ drive or whatever drive was selected for installation called xampp. Inside of the xampp folder is another folder called htdocs. In order to run a php document, it needs to be saved under the htdocs folder. Once there, users are able to launch the php document by opening a browser of

their choice and using the format <http://localhost/filename.php>. This will launch the php document that is stored in the htdocs folder with that filename.

In order to connect a php webpage to a MySQL database users need to create a php class that will connect to the database. The code to create a database connection is relatively simple. Users need to create variables that can store information such as host name for MySQL database, administrative username, administrative password, and the name of the database that needs to be connected. Once the variables are stored the user then creates a new variable which creates a new connection to the database and passes the necessary login information to the database to connect. It is recommended to create a small script to test for successful connection so that users get a message if the connection fails.



```
<?php
$host = "localhost";
$user = "root";
$pass = "";
$database = "class registration database";

$connection = new mysqli($host, $user, $pass, $database);

if ($connection == false)
{
    die("Unable to connect to database: " . mysqli_connect_error());
}
?>
```

Fig 2.0, Database connection code.

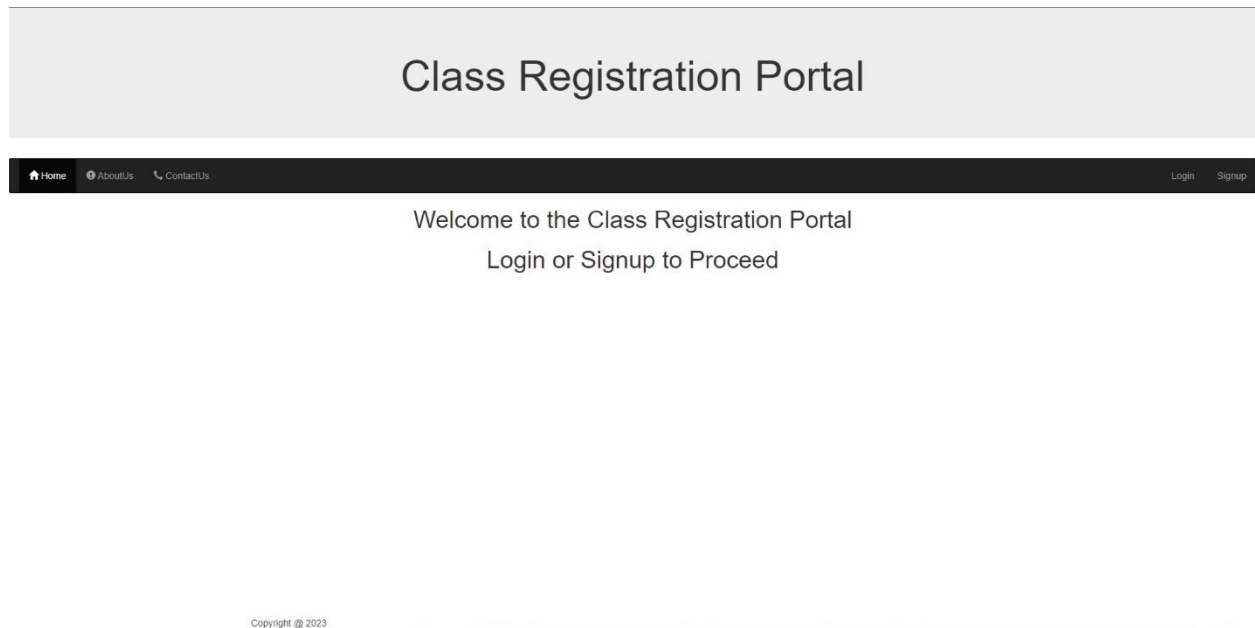
Any time the webpage being developed needs to interact with the MySQL database this class can be called to create the connection. Once the business for the database is complete the connection should be terminated until it is needed again.

Creating a registration page is fun. It can be challenging to create a registration page because users will need to create a form that can receive information from the end user and then pass it to another class that is able to upload the information to an attached MySQL database. For

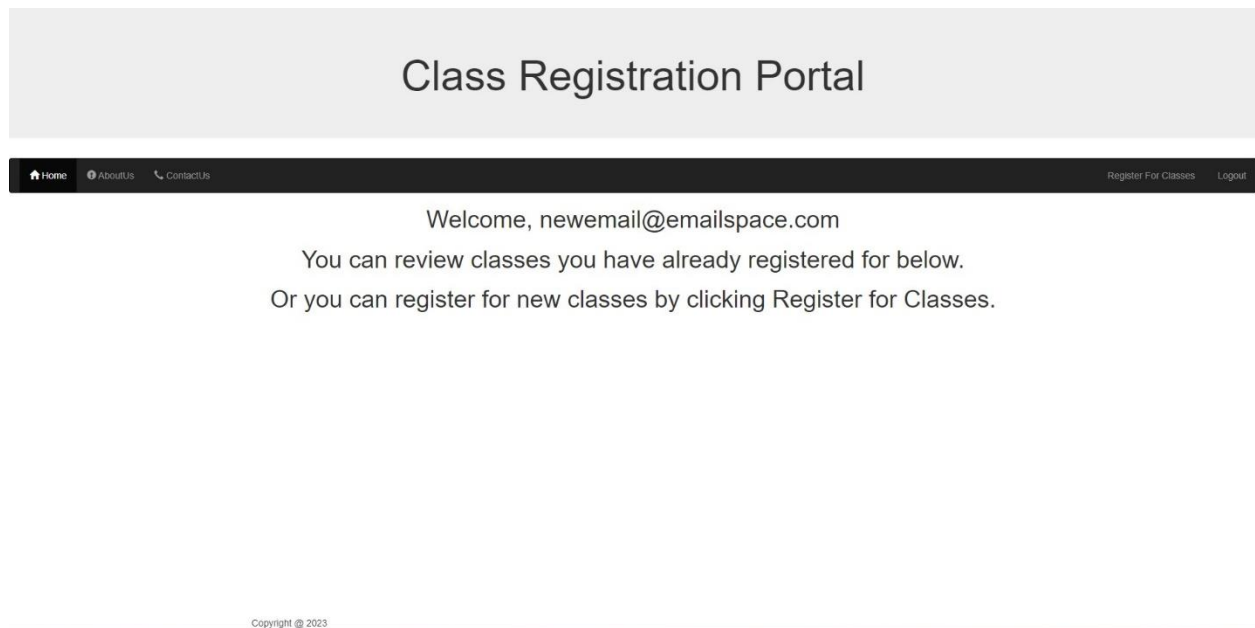
the registration page for the class registration website a form was used that would pass all the received information from the end user into the class built to upload to the database. Each section of the form was designed to receive information that is required to fill out the necessary information for the users collection within the MySQL database. The database requires a first name, last name, address, email, phone number, and password. Once the information is entered the user is able to click the register now button which will submit the information to the database and create the user account. Once this is completed the user will be passed back to the index page which will reflect them being logged in. The information from the registration page is sent to the database by utilizing the php class for connecting to the database. Then the code will utilize the \$_POST function to set variables with information that was received from the end user. For the class registration website the variables that would receive information are \$email, \$password, \$firstName, \$lastName, \$address, and \$phoneNumber. The variables will then be matched up to the different columns that exist within the database table that will receive the table. The SQL function INSERT INTO is utilized to move the information into the tables. Once the data is uploaded the MySQL database can be refreshed and the new entries will be present.

Screen Shots of Code

Landing Page



Landing Page after successful Login



Source code for Landing Page

```

1  <?php
2      //error-reporting(E_ALL ^ E_NOTICE)
3  ?>
4  <!DOCTYPE html>
5  <html lang="eng">
6
7  <head>
8      <meta charset="utf-8">
9      <meta name="viewport" content="width=device-width, initial-scale=1">
10     <link rel="stylesheet" href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">
11     <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.0/jquery.min.js"></script>
12     <script src="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/js/bootstrap.min.js"></script>
13 </head>
14 <body>
15     <?php require 'master.php';?>
16
17     <center>
18         <?php
19             if(isset($_SESSION["username"]))
20             {
21                 echo "<h1>Welcome, " . $_SESSION['username'] . "</h1></div>";
22
23                 echo "<h1>You can review classes you have already registered for below.</h1>";
24                 echo "<h1>Or you can register for new classes by clicking Register for Classes.</h1>";
25             }
26             else
27             {
28                 echo "<h1>Welcome to the Class Registration Portal</h1>";
29                 echo "<h1>Login or Signup to Proceed</h1>";
30             }
31         ?>
32     </center>
33     <?php require_once 'footer.php';?>
34 </body>
35 </html>

```

Registration Page

Class Registration Portal

[Home](#)
[About Us](#)
[Contact Us](#)

[Login](#)
[Signup](#)

Welcome to the Registration Page

Email:

First Name:

Last Name:

Address:

Phone Number:

Password:

[Register Now](#)

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Registration Page Code

```

Footer.php x DBConnect.php x Index.php x Signup.php x logout.php x sqlupdate.php x Master.php x registration.php x
1  <?php
2  //error_reporting(E_ALL ^ E_NOTICE)
3  -?>
4
5  <!DOCTYPE html>
6  <html lang="en">
7  <head>
8      <title> Registration Page </title>
9      <meta charset="utf-8">
10     <meta name="viewport" content="width=device-width, initial-scale=1">
11     <link rel="stylesheet" href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css">
12     <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.0/jquery.min.js"></script>
13     <script src="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js"></script>
14
15     <style type="text/css">
16     .registration
17     {
18         background: #f7f7f7;
19         padding: 20px;
20         border: 1px solid blue;
21         margin: 50px 0px;
22     }
23     .err-msg
24     {
25         color:red;
26     }
27     .registration form
28     {
29         border: 1px solid #e8e8e8;
30         padding: 10px;
31         background: #f3f3f3;
32     }
33     </style>
34 </head>
35 <body>
36 <?php require 'master.php';?>
37
38 <div class="container-fluid">
39 <div class="row">
40 <div class="col-sm-4">
41 </div>
42 <div class="col-sm-4">
43 <div class="registration">
44 <h4 class="text-center">Welcome to the Registration Page</h4>
45
46 <p class="text-success text-center"></p>
47 <form method="post" action="sqlupdate.php">
48
49 <div class="form-group">
50 <label>Email:</label>
51 <input type="text" class="form-control" placeholder="Enter Email" name='email'>
52 </div>
53
54 <div class="form-group">
55 <label>First Name:</label>
56 <input type="text" class="form-control" placeholder="Enter First Name" name='first_name'>
57 </div>

```

```

58
59     <div class="form-group">
60         <label>Last Name:</label>
61         <input type="text" class="form-control" placeholder="Enter Last Name" name='last_name'>
62     </div>
63
64     <div class="form-group">
65         <label>Address:</label>
66         <input type="text" class="form-control" placeholder="Enter Address" name='address'>
67     </div>
68
69     <div class="form-group">
70         <label>Phone Number:</label>
71         <input type="text" class="form-control" placeholder="Enter Phone Number" name='phone_number'>
72     </div>
73
74     <div class="form-group">
75         <label>Password:</label>
76         <input type="text" class="form-control" placeholder="Password" name='password'>
77     </div>
78
79     <button type="submit" class="btn btn-danger" name="submit">Register Now</button>
80 </form>
81 </div>
82 </div>
83
84 <?php include 'footer.php';?>
85 </body>
86 </html>

```

Login Page

Class Registration Portal

Home About Us Contact Us
Login Signup

LOGIN

Email

Password

[Login](#)

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Login Page Code


```

Footer.php x DBConnect.php x Index.php x Signup.php x logout.php x sqlupdate.php x Master.p
1  <?php
2      //error_reporting(E_ALL ^ E_NOTICE);
3  ?>
4
5  <!DOCTYPE html>
6  <html lang="en">
7  <?php
8      //session_start();
9      if(isset($_SESSION["username"]))
10     {
11         header("location: index.php");
12         exit;
13     }
14     require_once "dbconnect.php";
15     $email = $password = "";
16     $email_err = $password_err = "";
17     if(isset($_POST["login"]) && $_POST["login"]=="Login")
18     {
19         $email = trim($_POST["email"]); if(empty(trim($_POST["email"])))
20         {
21             $email_err = "Please enter an Email.";
22         }
23         else
24         {
25             $email = trim($_POST["email"]);
26         }
27         if(empty(trim($_POST["password"])))
28         {
29             $password_err = "Please enter a Password.";
30         }
31         else
32         {
33             $password = trim($_POST["password"]);
34         }
35         if(empty($email_err) && empty($password_err))
36         {
37             $sql = "SELECT email,password FROM tblusers WHERE email='$email'";
38             $result = mysqli_query($connection,$sql);
39             $tblusers = mysqli_fetch_assoc($result);
40             if($tblusers)
41             {
42                 if($tblusers['password'] === ($password))
43                 {
44                     session_start();
45                     $_SESSION['username'] = $email;
46                     header('location: index.php');
47                 }
48                 else
49                 {
50                     $password_err = "Password is Incorrect.";
51                 }
52             }
53         }
54         else
55         {
56             $email_err = "email does not exist.";
57         }
58     }
59     mysqli_close($connection);
60     ?>
61

```

```

61
62 <body>
63 <?php require 'master.php';?>
64 <style type="text/css">
65 .login
66 {
67     background: #f7f7f7;
68     padding: 20px;
69     border: 1px solid blue;
70     margin: 50px 0px;
71 }
72 .err-msg
73 {
74     color:red;
75 }
76 .login form
77 {
78     border: 1px solid #e8e8e8;
79     padding: 10px;
80     background: #f3f3f3;
81 }
82 </style>
83 <div class="container-fluid">
84 <div class="row">
85 <div class="col-sm-4">
86 </div>
87 <div class="col-sm-4">
88 <div class="container text-center">
89 </div>
90 </div>
91
92 <p class="text-success text-center"></p>
93 <form action="loginpage.php" method="post">
94 <h2>LOGIN</h2>
95
96 <div class="form-group <?php echo (!empty($Email_err)) ? 'has-error' : '';?>">
97 <label>Email</label>
98 <input type="text" name="email" class="form-control" placeholder="email" value="<?php echo $email;?>">
99 <span class="help-block"><?php echo $email_err; ?></span>
100
101 <div class="form-group <?php echo (!empty($Password_err)) ? 'has-error' : '';?>">
102 <label>Password</label>
103 <input type="password" name="password" class="form-control" placeholder="password" value="<?php $password;?>">
104 <span class="help-block"><?php echo $password_err; ?></span>
105
106 <input type="submit" class="btn btn-info" value="Login" name="login">
107 </form>
108 </body>
109 <?php require_once 'footer.php';?>
110 </html>
111

```

Master PHP code

```

Footer.php DBConnect.php Index.php Signup.php Logout.php sqlupdate.php Master.php registration.php LoginPage.php
1 <?php
2 //error_reporting(E_ALL ^ E_NOTICE);
3 ini_set('session.use_only_cookies','1');
4 session_start();
5 ?>
6
7 <!DOCTYPE html>
8 <html lang="eng">
9
10 <head>
11 <meta charset="utf-8">
12 <meta name="viewport" content="width=device-width, initial-scale=1">
13 <link rel="stylesheet" href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css">
14 <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.0/jquery.min.js"></script>
15 <script src="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js"></script>
16 </head>
17
18 <body>
19 <div class="jumbotron">
20 <div class="container text-center">
21 <h1> Class Registration Portal </h1>
22 </div>
23 </div>
24
25 <nav class="navbar navbar-inverse">
26 <div class="container-fluid">
27 <div class="navbar-header">
28 <button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#myNavbar">
29 <span class="icon-bar"></span>
30 <span class="icon-bar"></span>
31 <span class="icon-bar"></span>
32 </button>
33 </div>
34 <div class="collapse navbar-collapse" id="myNavbar">
35 <ul class="nav navbar-nav">
36 <li class="active"><a href="index.php"><span class="glyphicon glyphicon-home"></span> Home</a></li>
37 <li><a href="#"><span class="glyphicon glyphicon-exclamation-sign"></span> AboutUs</a></li>
38 <li><a href="#"><span class="glyphicon glyphicon-earphone"></span> ContactUs</a></li>
39 </ul>
40 <ul class="nav navbar-nav navbar-right">
41 <?php
42 //ini_set('session.use_only_cookies','1');
43 //session_start();
44
45 if(isset($_SESSION['username']))
46 {
47 <li><a href="registration.php"><span class="glyphicon glyphicon-briefcase"></span> Register For Classes</a></li>;
48 <li><a href="logout.php"><span class="glyphicon glyphicon-off"></span> Logout</a></li>;
49 }
50 else
51 {
52 <li><a href="loginpage.php"><span class="glyphicon glyphicon-briefcase"></span> Login</a></li>;
53 <li><a href="signup.php"><span class="glyphicon glyphicon-off"></span> Signup</a></li>;
54 }
55 ?>
56 </ul>
57 </div>
58 </div>
59 </nav>
60 </body>
61 </html>

```

SQL Update Code

```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <title> Register </title>
5      <meta charset="utf-8">
6      <meta name="viewport" content="width=device-width, initial-scale=1">
7      <link rel="stylesheet" href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css">
8      <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.0/jquery.min.js"></script>
9      <script src="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js"></script>
10 </head>
11 <body>
12     <center>
13         <?php require 'master.php';?>
14
15
16
17     <?php
18         require_once "dbconnect.php";
19
20         $ID = '';
21         $email = $_POST['email'];
22         $password = $_POST['password'];
23         $firstName = $_POST['first_name'];
24         $lastName = $_POST['last_name'];
25         $address = $_POST['address'];
26         $phoneNumber = $_POST['phone_number'];
27
28         //function executeQuery($connection, $sql)
29         $sql="INSERT INTO tblusers(firstName,lastname,address,email, phone, password, role)
30         VALUES ('$firstName','$lastName','$address', '$email', '$phoneNumber', '$password', 'ST')";
31
32         if(mysqli_query($connection, $sql))
33         {
34             echo "<h1>You Have Successfully Registered</h1>";
35             session_start();
36             $_SESSION['username']=$email;
37             $connection->close();
38             header('location: index.php');
39         }
40         else
41         {
42             echo "<h1>Registration has Failed. Please contact and administrator.</h1>"
43             .mysqli_error($connection);
44             $connection->close();
45         }
46     ?>
47
48
49     <?php require_once 'footer.php';?>
50     </center>
51 </body>

```

DBconnection Code

```

<?php
$host = "localhost";
$user = "root";
$pass = "";
$database = "class registration database";

$connection =new mysqli($host, $user, $pass, $database);

if ($connection === false)
{
    die("Unable to connect to database: " . mysqli_connect_error());
}
?>

```

SQL Users Table

phpMyAdmin

Server: 127.0.0.1 » Database: class registration database » Table: tblusers

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	firstName	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
2	lastName	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
3	address	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
4	email	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
5	phone	int(11)			No	None			Change Drop More
6	password	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
7	ID	int(10)			No	None		AUTO_INCREMENT	Change Drop More
8	role	varchar(10)	utf8mb4_general_ci		Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext Add to central column

SQL Classes Table

phpMyAdmin

Server: 127.0.0.1 » Database: class registration database » Table: tblclasses

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	className	varchar(30)	utf8mb4_general_ci		No	None			Change Drop More
2	classID	varchar(6)	utf8mb4_general_ci		No	None			Change Drop More
3	capacity	int(21)			No	None			Change Drop More
4	registeredStudents	int(21)			No	None			Change Drop More
5	semester	varchar(20)	utf8mb4_general_ci		Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext Add to central columns

Remove from central columns

Print Propose table structure Track table Move columns Normalize

Add 1 column(s) after semester Go

SQL Semester Table

Server: 127.0.0.1 » Database: class registration database » Table: tblsemester

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#) [Import](#) [Privileges](#) [Operations](#) [Tracking](#) [Triggers](#)

[Table structure](#) [Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	semesterName	int(11)			No	None			Change Drop More
<input type="checkbox"/> 2	semesterID	int(11)			No	None			Change Drop More

[↑](#) ☐ Check all With selected: [Browse](#) [Change](#) [Drop](#) [Primary](#) [Unique](#) [Index](#) [Spatial](#) [Fulltext](#) [Add to central columns](#)

[Remove from central columns](#)

References

Appache Friends (2023). Download. <https://www.apachefriends.org/download.html>