# LOG IN & REGISTRATION PROJECT

COMP 440 Project Phase 1

Geek Squad

#### **Team # 14**

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## **Files**

- connection.php
- signup.php
- Login.php
- operations.php
- index.php
- logout.php
- initilize\_database.php
- project.sql

#### Code: connection.php

Connects the application to the database without root privileges

```
k?php
$dbhost = "localhost";
$dbuser = "comp440";
$dbpass = "pass1234";
$dbname = "comp440 project";
if(!$con = mysqli connect($dbhost,$dbuser,$dbpass,$dbname))
    echo("failed to connect!");
    exit();
```

#### GUI: Sign Up Page

 This is a visualization of the sign up page that our application outputs

```
</style>
<div id="box">
   <form method="post">
       <div id = "title">Signup</div>
       <label for="username">username:</label>
       <input id="text" type="text" name="username"><br></br></pr>
       <label for="password">password:</label>
       <input id="text" type="password" name="password">
       <label for="passwordconfirmed">password confirmed:</label>
       <input id="text" type="password" name="passwordconfirmed">
       <label for="firstName">first name:</label>
       <input id="text" type="text" name="firstName">
       <br><br><br>>
       <label for="lastName">last name:</label>
       <input id="text" type="text" name="lastName">
       <label for="email"> email:</label>
       <input id="text" type="text" name="email">
       <input id="button" type="submit" value="Signup">
       <a href="login.php">Click to Login</a>
```

Signup	
username:	
password:	
password confirmed:	4
first name:	_
last name:	
email:	-
Signup	
Click to Login	

#### Code: signup.php

- for handling unmatched passwords and duplicate cases that fall under username, email, and/or both
- Handles empty user input, which will ask the user to fill in the slot

```
if(!emptv($username) && !emptv($password) && !emptv($passwordconfirmed)&& !emptv($firstName) && !emptv($lastName) && !emptv($email)){
   if ($password != $passwordconfirmed){
      echo("password and passwordconfirmed does not match, please try again");
      $sql = "INSERT INTO user (username,password,firstName,lastName,email) VALUES (?, ?, ?, ?);";
      $stmt = mysqli_stmt_init($con);
      if(!mysqli_stmt_prepare($stmt, $sql)){
          echo("issue..."):
          $q_username = "SELECT username FROM user WHERE username = '$username' ";
          $result username = mysali query($con.$a username);
          $num_rows_username = mysqli_num_rows($result_username);
          $q email = "SELECT email FROM user WHERE email = '$email'";
          $result_email = mysqli_query($con,$q_email);
          $num rows email = mysqli num rows($result email);
           if(!$num rows username && !$num rows email)
          mysqli_stmt_bind_param($stmt, "sssss", $username, $password, $firstName, $lastName, $email);
          mysqli_stmt_execute($stmt);
          header("Location: login.php");
                f($num_rows_username && $num_rows_email)
              echo" Duplicate email and username please try again";
                f($num_rows_username)
              echo" Duplicate username please try again":
                ($num rows email)
              echo" Duplicate email please try again";
  echo "Empty slot for user input, please fill in";
```

# GUI: Signup Page Duplication Errors



### GUI: Sign Up Error for empty user input



# After successfully signing up



# Code: login.php

Asks the user to fill in the slots and checks the user's credentials according to our database to see if they match. Also, it handles empty user input. If all is satisfactory then it will grant access

```
session start();
   include("connection.php");
   include("operations.php");
   $requestMethod = strtoupper(getenv('REQUEST METHOD'));
   $httpMethods = array('GET', 'POST', 'PUT', 'DELETE', 'HEAD', 'OPTIONS');
   if (in_array($requestMethod, $httpMethods))
        if ($requestMethod == 'POST') {
       $username = $ POST['username'];
       $password = $ POST['password'];
       $firstName = $ POST['firstName'];
       $lastName = $ POST['lastName']:
       $email = $_POST['email'];
        if(!empty($username) && !empty($password) && !empty($firstName) && !empty($lastName) && !empty($email) && !is_numeric($username))
           $query = "select * from user where username = '$username' limit 1";
           $result = mysqli_query($con, $query);
            if($result)
                 ($result && mysgli num rows($result) > 0)
                   $user data = mysqli fetch assoc($result):
                   if(($user_data['password'] === $password) && ($user_data['firstName'] === $firstName) && ($user_data['lastName'] === $lastName) && ($user_data['email'] === $email
                       $_SESSION['username'] = $user_data['username'];
                       header("Location: index.php");
           echo "incorrect credentials!";
           echo "Empty slot for user input, please fill it in!";
       echo("failed server");
```

# GUI: Login page

 This is a visualization of the login page that our application outputs

```
<div id="box">
   <form method="post">
       <div id = "title">Login</div>
       <label for="username">username:</label>
       <input id="text" type="text" name="username">
       <label for="password">password:</label>
       <input id="text" type="password" name="password">
        <label for="firstName">first name:</label>
       <input id="text" type="text" name="firstName">
       <label for="lastName">last name:</label>
       <input id="text" type="text" name="lastName">
        <label for="email"> email:</label>
       <input id="text" type="text" name="email">
       <input id="button" type="submit" value="Login">
       <a href="signup.php">Click to Signup</a><br><br>></pr>
```

Login
username:
password:
first name:
last name:
email:
Login
Click to Signup

#### GUI: Login Error for Empty User Input



# GUI: Login page Logging in with incorrect credentials



#### Code: operations.php

Check to see if an individual is Logged In

```
function check login($con)
    if(isset($ SESSION['username']))
        $username = $ SESSION['username'];
        $query = "select * from user where username = '$username' limit 1";
        $result = mysqli query($con,$query);
        if($result && mysqli num rows($result) > 0)
           $user data = mysqli fetch assoc($result);
           return $user data;
   header("Location: login.php");
```

#### Code: index.php

```
<?php
session_start();
   include("connection.php");
    include("operations.php");
   $user data = check login($con);
   <title>My website</title>
    <a href="logout.php">Logout</a>
   <h1>This is the index page</h1>
   Hello, <?php echo $user_data['username']; ?>
   <input type="button" value="initialization" onclick="location='initialize database.php'" />
```

 After the user logs in they will encounter the website where we have a welcome message with a logout and initialize database functionality

# GUI: Index page

 This is a visualization of the website after user logs in, which our application outputs



Hello, shiva

initialization

```
<!DOCTYPE html>
<html>
<head>
    <title>My website</title>
</head>
<body>

<a href="logout.php">Logout</a>
<h1>This is the index page</h1>
<br/>
<hr>
    Hello, <?php echo $user_data['username']; ?>
<br>
    <br>
    <input type="button" value="initialization" onclick="location='initialize_database.php'" />
</body>
</html>
```

#### Code: logout.php

Unsets session username, which is our primary id

```
k?php
session_start();

if(isset($_SESSION['username']))
{
   unset($_SESSION['username']);
}

header("Location: login.php");
exit;
```

# **GUI**: logout



Logout

This is the index nose

#### Code: Project.sql && Initializing\_database.php

```
DROP TABLE IF EXISTS `school_records`;

create table school_records (id INT, student_name varchar(20), class varchar(45), teacher varchar(45),grade varchar(100), primary key (id) );

INSERT INTO `school_records` VALUES (12,'John','COMP 322','Dr. Smith','B'),(22,'Samuel','COMP 440','Dr. Ebrahimi','A');
```

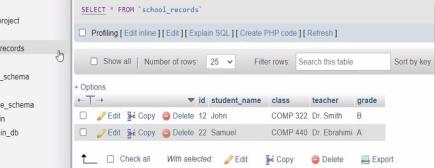
```
<?php
$mysql_host = "localhost";
$mysql_database = "comp440_project";
$mysql_user = "comp440";
$mysql_password = "pass1234";
$db = new PD0("mysql:host=$mysql_host; dbname=$mysql_database", $mysql_user, $mysql_password);
$query = file_get_contents("project.sql");
$stmt = $db->prepare($query);

if ($stmt->execute()){
    echo "Great, status: succeed";
}
else{
    echo "Issue, status: failed";
}
```

### Output initialization of database



 Initializes table called school\_records, which drops the table if it exists and populates the table with the information shown here



#### signup.php: SQL Injection Prevention

```
//input user given info for registration while preventing sql injection
$username = mysqli_real_escape_string($con, $_POST['username']);
$password = mysqli_real_escape_string($con,$_POST['password']);
$firstName = mysqli_real_escape_string($con,$_POST['firstName']);
$lastName = mysqli_real_escape_string($con,$_POST['lastName']);
$email = mysqli_real_escape_string($con,$_POST['email']);
$passwordconfirmed = mysqli_real_escape_string($con,$_POST['passwordconfirmed']);
```

```
if(!$num_rows_username && !$num_rows_email)
{
   //save to database
   mysqli_stmt_bind_param($stmt, "sssss", $username, $password, $firstName, $lastName, $email);
   mysqli_stmt_execute($stmt);
   header("Location: login.php");
   exit;
}
```

```
else{
    $sql = "INSERT INTO user (username,password,firstName,lastName,email) VALUES (?, ?, ?, ?);";
    $stmt = mysqli_stmt_init($con);

if(!mysqli_stmt_prepare($stmt, $sql)){
    echo("issue...");
}
```