# **ASSIGNMENT**

## **Advanced Ethical Hacking**

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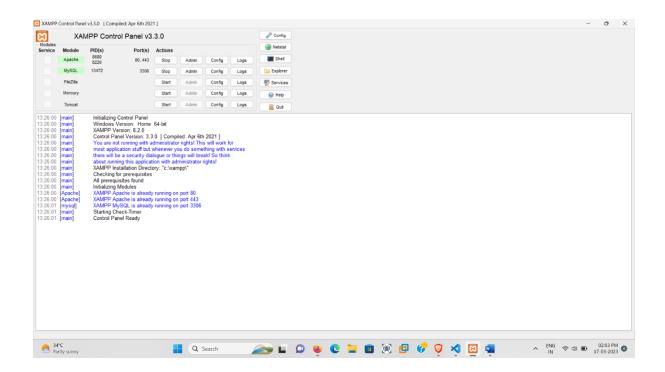
I-M.Sc Cyber Security

## 1)Create a Small Webpage using PHP:

## a)Download and Installing Xampp:

First of all I Download Xampp Apache Distribution that contains MariaDB,PHP,and Perl and Install it in my Windows.

Then in the Xampp I started the Apache and MySQL



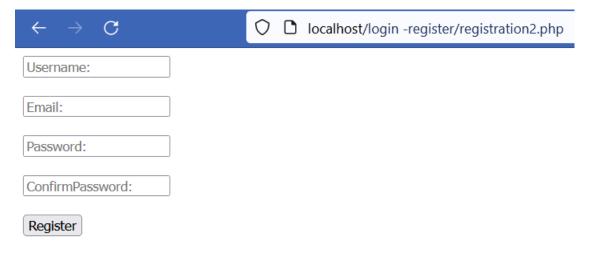
#### **b)Registration Page:**

Then I created the new folder namely Login -Register. Then created a new file named registration.php that contains the code for the registration page.

I used Visual studio Code for Coding.

This is the code for simple registration page:

```
<!DOCTYPE html>
    <html lang="en">
    <head>
       <meta charset="UTF-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
       <meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Registration form</title>
8
9
    <body>
    <div class "container">
10
12
                <div class ="form group">
                  <input type="text" class="form control" name="username" placeholder="Username:">
13
             </div>
14
    </br>
15
              <div class ="form group">
16
                <input type="email" class ="form control" name="email" placeholder="Email:">
17
              </div>
19
     </br>
              <div class ="form group">
20
                  <input type="password" class ="form control" name="password" placeholder="Password:">
21
               </div>
22
    </br>
23
24
                   <input type="confirmpassword" class="form control" name="confirmpassword" placeholder="ConfirmPassword:">
26
27
    </br>
28
               <div class="form btn">
                   <input type="submit" class = "btn btn-primary" value="Register" name="submit">
29
                </div>
32
            <div>Already Registered <a href ="login.php">Login Here</a></div>
33
34
35
        </div>
    </body>
37
    </body>
38
    </html>
```



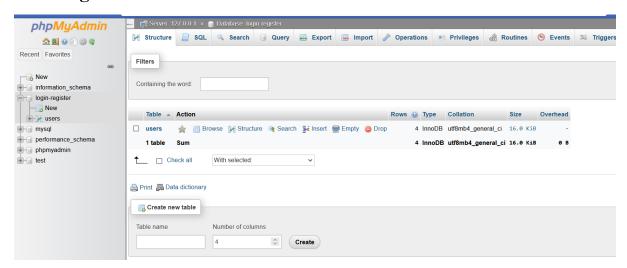
Then I uses some **CSS** code to get better look of my Registration Page. This is the **CSS** code that get better look for my registration page.

```
# style.css > 😂 .form-group
      body{
 1
 2
          padding:50px;
 3
 4
      .container{
          max-width: 800px;
 6
          margin:0 auto;
 7
          padding:50px;
          box-shadow: ☐rgba(100,100,111,0.2) 0px 7px 29px 0px;
 8
 9
      .form-group{
10
          margin-bottom:30px;
11
12
```

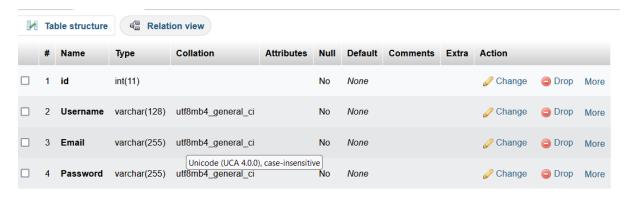
#### Then I created a database:

**Database**-A database is an organized collection of structured information, or data, typically stored electronically in a computer system.

#### **Creating a database:**



#### **Table Structure:**



#### This is the code for database.php:

```
💏 database.php > ...
 1
      <?php
 3
      $hostName = "localhost";
      $dbUser = "root";
 4
      $dbPassword = "";
 5
      $dbName = "login-register";
 6
      $conn = mysqli_connect($hostName, $dbUser ,$dbPassword , $dbName);
 7
 8
          die("something went wrong;");
 9
10
11
12
      ?>
```

## This is the final code for the registration form:

```
registration.php > ♦ html > ♦ body
         <!DOCTYPE html>
          <html lang="en">
<head>
               <meta charset="UTF-8">
               cmeta thro-equiv="X-UA-Compatible" content="IE-edge">
cmeta name="viewport" content="width-device-width, initial-scale=1.0">
ctitle>Registration Form</title>
dishearal "provisors" or "content="width-device-width, initial-scale=1.0">
ctitle>Registration Form</title>
               clink rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css" integrity="sha384-rbsA2VBKQhggwzxH7pPCaAq046MgnOM80zWIRWuHkclink rel="stylesheet" href="style.css">
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
                <div class "container">
                      vclass container >

if (isset($_POST["submit"])) {
    $username = $_POST["username"];
    $email = $_POST["email"];
    $password=$_POST["password"];
    $confirmpassword=$_POST["confirmpassword"];
}
                           $passwordHash = password_hash($password, PASSWORD_DEFAULT);
                           if(empty($username) OR empty($email) OR empty($password) OR empty($confirmpassword)) {
    array_push($errors, "All fields are required");
                            if(!filter_var($email,FILTER_VALIDATE_EMAIL)) {
                                   array_push($errors, "Email is not valid");
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
                            if(strlen($password)<8) {
    array_push($errors,"Password must be atleast 8 characters long");</pre>
                            if ($password!==$confirmpassword) {
    array_push($errors,"Password does not match");
                            }
require_once "database.php";
$sql = "SELECT * FROM users WHERE email ='$email'";
$result * mysqli_query($conn , $sql);
$rowcount = mysqli_num_rows($result);
if ($rowcount>0) {
                                   array_push($errors,"Email already exists");
                    43
                                            if (count($errors)>0) {
                    44
                                            foreach ($errors as $error) {
                                               echo "<div class='alert alert-danger'>$error</div>";
                    45
                    46
                    47
                                           }else{
                    48
                                           require_once "database.php";
                    49
                                            $sql = "INSERT INTO users (Username, Email, Password) VALUES ( ?, ?, ? )";
                    50
                                            $stmt = mysqli_stmt_init($conn);
                    51
                                            $prepareStmt = mysqli_stmt_prepare($stmt,$sql);
                    52
                                            if ($prepareStmt) {
                    53
                                                      mysqli stmt bind param($stmt,"sss",$username, $email, $passwordHash);
                    54
                                                      mysqli_stmt_execute($stmt);
                    55
                                                      echo "<div class='alert alert-success'>You are registered successfully.</div>";
                                                 }else{
                    57
                                                     die("Something went Wrong");
                    58
                    59
                    60
                    61
```

```
<form action="registration.php" method="post">
                <div class ="form group">
                  <input type="text" class="form control" name="username" placeholder="Username:">
65
66
67
                </div>
     </br>
                68
70
71
72
                  <input type="password" class ="form control" name="password" placeholder="Password:">
73
74
75
76
     </br>
                <div class ="form group">
                   <input type="confirmpassword" class="form control" name="confirmpassword" placeholder="ConfirmPassword:">
78
79
80
                <div class="form btn">
                   <input type="submit" class = "btn btn-primary" value="Register" name="submit">
81
                </div>
82
83
            </form>
84
            \label{login.php} $$\div>\p>Already Registered <a href = "login.php">Login Here</a></div>
88
     </body>
     </html>
```

Username:

Email:

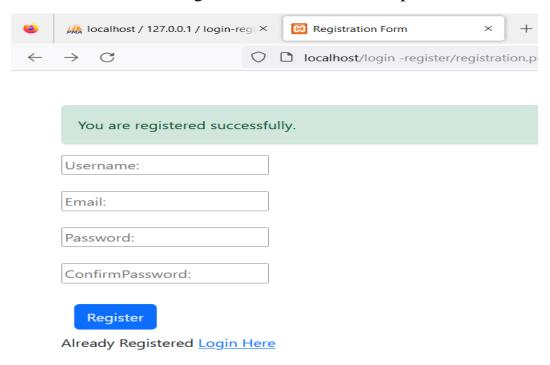
Password:

ConfirmPassword:

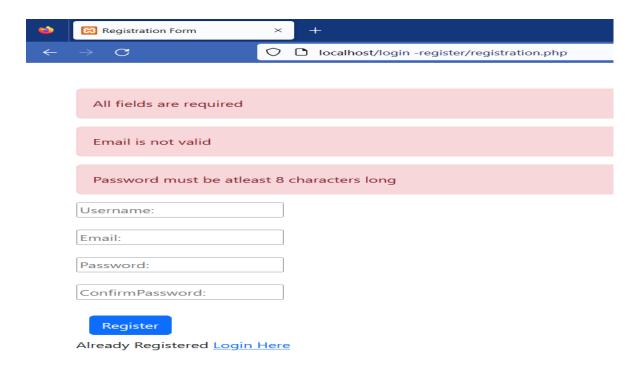
Register

Already Registered Login Here

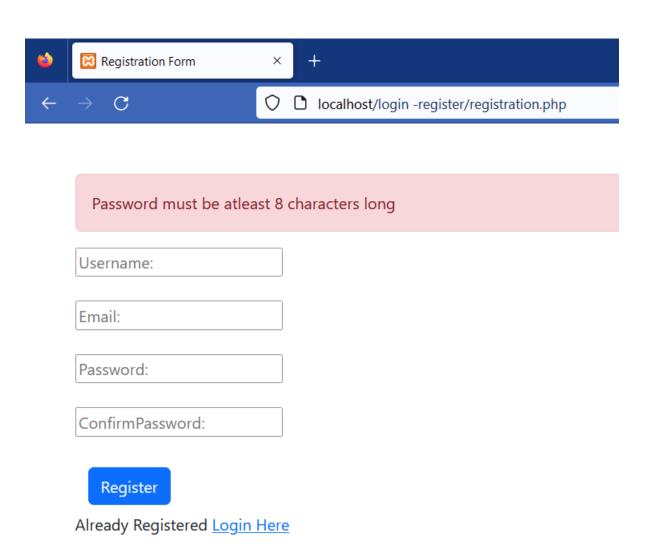
After the Successful registration it shows the output like this:



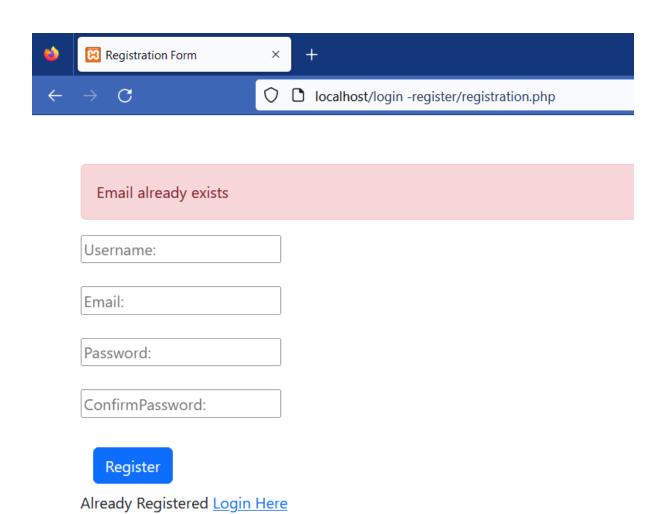
• There error will be if we did not fill out the form and click register like this----:



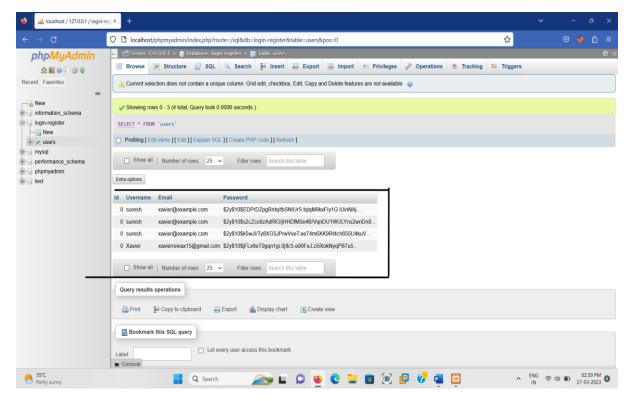
- In this Registration page the Username, Emails and Passwords that are registered are stored in the Database.
- The code tells that the password must be atleast 8 characters else it will show error like this ---:



• And if the Email are already registered and stored in the database it will show error like this---:



# This are the datas that are stored in the database after the registration:



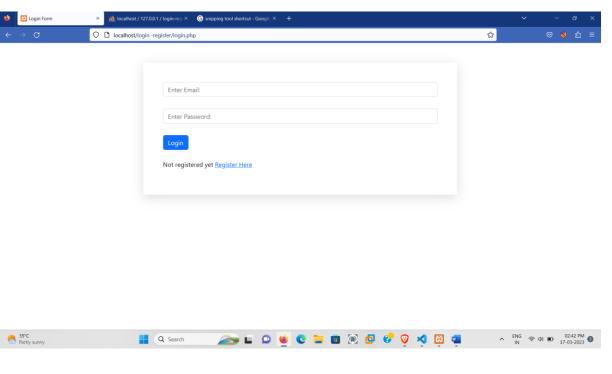
## c)Login Page:

Then I created a login page using PHP.

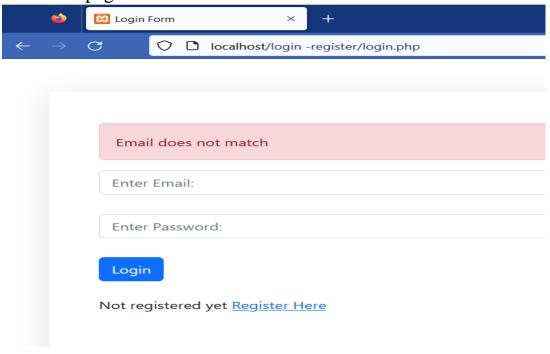
The Code for login page is:

```
🦬 login.php > 😭 html > 😭 body > 😭 div.container
  1 <!DOCTYPE html>
  2 <html lang="en">
  3 <head>
         <meta charset="UTF-8">
         <meta http-equiv="X-UA-Compatible" content="IE=edge">
  5
         <meta name="viewport" content="width=device-width, initial-scale=1.0">
         <title>Login Form</title>
        <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css" integrity="sha384-rbsA2VBKQhggwzxH7PPCaA</pre>
  8
  9
         <link rel="stylesheet" href="style.css">
 10 </head>
 11 <body>
         <div class="container">
 12
 13
              <?php
             if(isset($ POST["login"])) {
 14
 15
                 $email = $_POST["email"];
                  $password = $_POST["password"];
 16
 17
                  require once "database.php";
                  $stmt = $conn->prepare("SELECT * FROM users WHERE email = ?");
 18
                  $stmt->bind_param("s", $email);
 19
 20
                  $stmt->execute();
                  $result = $stmt->get_result();
 21
                  $user = mysqli fetch array($result, MYSQLI ASSOC);
```

```
\P \  \, \mathsf{login.php} \  \, \flat \  \, \diamondsuit \  \, \mathsf{html} \  \, \flat \  \, \diamondsuit \  \, \mathsf{body} \  \, \flat \  \, \diamondsuit \  \, \mathsf{div.container} \  \, \flat \  \, \diamondsuit \  \, \mathsf{div.form-btn}
                     $sql = "SELECT * FROM users WHERE email ='$email'";
 24
 25
                     $result = mysqli_query($conn, $sql);
                     $user = mysqli_fetch_array($result, MYSQLI_ASSOC);
 26
 27
                     if($user) {
 28
                          if (password_verify($password, $user["Password"])) {
                               session_start();
$_SESSION["user"] = "yes";
 29
 30
 31
                               header("Location: index.php");
                               die();
 32
 33
                          }else{
                               echo"<div class='alert alert-danger'>Password does not match</div>";
 35
 36
 37
 38
                          echo"<div class='alert alert-danger'>Email does not match</div>";
 39
 40
 41
                2>
 42
 43
                 <form action="login.php" method="post">
 44
                     <div class="form-group">
                         <input type="email" placeholder="Enter Email:" name="email" class="form-control">
 45
 46
                     </div>
 47
                     <div class="form-group">
                         <input type="password" placeholder="Enter Password:" name="password" class="form-control">
 48
 49
                     </div>
 50
                     <div class="form-btn">
                         <input type="submit" value="Login" name="login" class="btn btn-primary">
 51
 52
                     </div>
 53
                </form>
 54
            </br>
 55
                <div>Not registered yet <a href="registration.php">Register Here</a></div>
            </div>
 56
      </body>
 57
 58
      </html>
```



The error page will be shown if the entered email does not register to log in the webpage---:

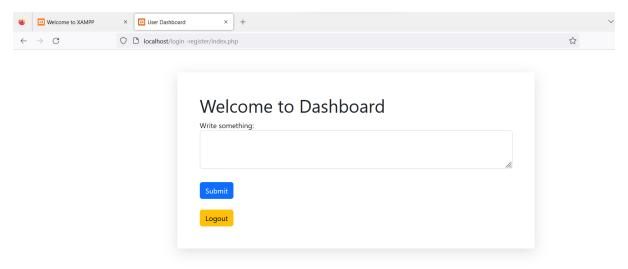


## d)Index Page:

The Code For Index page is:

```
1 <!DOCTYPE html>
2 <html lang="en">
    <head>
       <meta charset="UTF-8">
       <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
       clink rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css" integrity="sha384-rbsA2VBKQhggwzxH7pPCaAc
        <link rel="stylesheet" href="style.css">
        <title>User Dashboard</title>
10 </head>
11 <body>
12
13
           <div class="container">
14
     <h1>Welcome to Dashboard</h1>
15
16
17
       <div class="form-group">
        <label for="messageBox">Write something:</label>
18
19 </br>
20
        <textarea class="form-control" id="messageBox" rows="3"></textarea>
21
       <button type="submit" class="btn btn-primary">Submit
22
23
25
    <a href="logout.php" class="btn btn-warning">Logout</a>
    </div>
26
27
28
29
       </div>
30 </body>
31 </html>
```

It directing to the dashboard page:



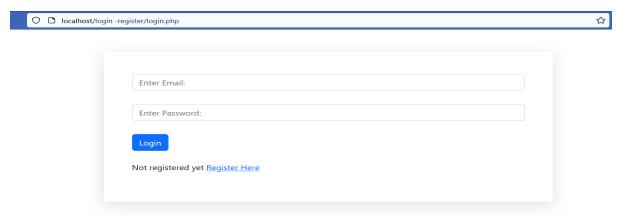
## **Logout Page:**

- When we click the logout button in the dashboard page it will redirect to the login page.
- The code for the logout page is:

```
logout.php

1 <?php
2 session_start();
3 session_destroy();
4 header("Location: login.php");
5 ?>
```

It will be redirect to the Login page:



## c)SQL Injection:

SQL injection is a code injection technique that might destroy your database. SQL injection is one of the most common web hacking techniques. SQL injection is the placement of malicious code in SQL statements, via web page input.

## The code before sql injection--;

```
<!DOCTYPE html>
     <html lang="en">
     <head>
          <meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
          <title>Login Form</title>
          <\link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css" integrity="sha384-rbsA2VBKQhggwzxH7pPCaArd)</pre>
           k rel="stylesheet" href="style.css">
     </head>
11
     <body>
           <div class="container">
13
               <?php
               if(isset($_POST["login"])) {
    $username = $_POST["username"];
    $password = $_POST["password"];
15
17
18
                   require_once "database.php";
20
21
                    $sql = "SELECT * FROM users WHERE username ='$username'";
22
23
                    $result = mysqli_query($conn, $sql);
$user = mysqli_fetch_array($result, MYSQLI_ASSOC);
24
25
                         if (password_verify($password, $user["Password"])) {
                              session_start();
$_SESSION["user"] = "yes";
27
28
                              header("Location: index.php");
29
30
                              echo"<div class='alert alert-danger'>Password does not match</div>";
32
34
                         echo"<div class='alert alert-danger'>Username does not match</div>";
```

```
38
39
            <form action="login.php" method="post">
40
41
                <div class="form-group">
                    <input type="username" placeholder="Enter Username: name="username" class="form-control">
                </div>
43
11
                <div class="form-group">
45
                    <input type="password" placeholder="Enter Password: name="password" class="form-control">
46
                </div>
                <div class="form-btn">
47
48
                    <input type="submit" value="Login" name="login" class="btn btn-primary">
49
            </form>
50
51
        </br>
            <div>Not registered yet <a href="registration.php">Register Here</a></div>
52
        </div>
53
    </body>
54
    </html>
```

## The code after SQL injection---;

```
1 <!DOCTYPE html>
2 <html lang="en">
    <head>
3
        <meta charset="UTF-8">
4
5
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
6
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <title>login form</title>
8
        k rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css" integrity="sha384-rbsA2VBKQhggwzxH7pPCaA
        <link rel="stylesheet" href="style.css">
10 </head>
11 <body>
12
        <div class="container">
13
            <?php
            if(isset($_POST["login"])) {
14
15
                $username = $_POST["username"];
                $password = $_POST["password"];
16
                require_once "database.php";
17
                $stmt =$conn->prepare("SELECT * FROM users WHERE username = ?");
18
19
                $stmt->bind_param("s",$username);
                $stmt->execute();
20
                $result = $stmt->get_result();
21
22
                $user = mysqli_fetch_array($result,MYSQLI_ASSOC);
                $$ql = "SELECT * FROM users WHERE username = '$username'";
23
24
                $result = mysqli_query($conn,$sql);
25
                $user = mysqli fetch array($result, MYSQLI ASSOC);
26
                if($user) {
27
                    if (password verify($password, $user["Password"])) {
28
                        session start();
                        $ SESSION["user"] = "yes";
29
30
31
                        header("Location: index.php");
32
                        die();
```

```
}else{
33
34
                        echo"<div class ='alert alert-danger'>Password does not match</div>";
35
36
37
38
                    echo"<div class = 'alert alert-danger'>Username does not match</div>";
39
41
42
43
            <form action="login.php"method="post">
44
                <div class="form-group">
                   <input type="username" placeholder="Enter username: name="username" class="form-control">
                </div>
46
47
                <div class="form-group">
                    <input type="password" placeholder="Enter Password: name="password" class="form-control">
48
19
                </div>
                <div class="form-btn">
                   <input type="submit" value="Login" name="login" class="btn btn-primary">
51
52
53
            </form>
54
        </br>
55
        <div>Not registered yet <a href="registration.php">Register Here </a></div>
56
57 </body>
58 </html>
```

#### This is the code that secures from sql injection:

```
if(isset($_POST["login"])) {
    $email = $_POST["email"];
    $password = $_POST["password"];
    require_once "database.php";
    $stmt = $conn->prepare("SELECT * FROM users WHERE email = ?");
    $stmt->bind_param("s", $email);
    $stmt->execute();
    $result = $stmt->get_result();
    $user = mysqli_fetch_array($result, MYSQLI_ASSOC);
```

In this code bind\_param() which helps prevent SQL injection attacks by separating the query structure from the user input.

## **Session Hijacking:**

Session hijacking is a technique used by hackers to gain access to a target's computer or online accounts. In a session hijacking attack, a hacker takes control of a user's browsing session to gain access to their personal information and passwords.

#### The code before session hijacking:

```
1 <!DOCTYPE html>
 2 <html lang="en">
 3 <head>
        <meta charset="UTF-8">
 5
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
 6
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
 7
        <title>login form</title>
 8
        clink rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css" integrity="sha384-rbsA2VBKQhggwzxH7pPCaAk")
        <link rel="stylesheet" href="style.css">
 9
10 </head>
11 <body>
12
        <div class="container">
13
            <?php
            if(isset($_POST["login"])) {
14
15
                $email = $_POST["email"];
16
                $password = $_POST["password"];
                require_once "database.php";
17
                $stmt =$conn->prepare("SELECT * FROM users WHERE email = ?");
18
                $stmt->bind param("s",$email);
19
                $stmt->execute();
20
21
                $result = $stmt->get_result();
                $user = mysqli_fetch_array($result,MYSQLI_ASSOC);
22
                $sql = "SELECT * FROM users WHERE email ='$email'";
23
                $result = mysqli_query($conn,$sql);
24
                 $user = mysqli_fetch_array($result, MYSQLI_ASSOC);
25
                 if($user) {
26
                    if (password_verify($password, $user["Password"])) {
27
28
                        session start();
29
                        $_SESSION["user"] = "yes";
                        setcookie("user email", $email, time() + (86400 * 30), "/");
30
31
                        header("Location: index.php");
                        die();
```

#### The Code after the session hijacking to secure from the attack:

```
## registration.php ## code before sql.php ## code after sql.php ## login.php X ## logout.php ## index.php ## process.php ## int.php ## database.php ## st
                  <!DOCTYPE html>
                  <html lang="en">
                  <head>
                             <meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
                              <title>login form</title>
                            clink rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css" integrity="sha384-rbsA2VBKQhggwzxH7pPCa/
clink rel="stylesheet" href="style.css">
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clink rel="stylesheet" href="style.css">
clink rel="stylesheet" href="stylesheet" href="style.css">
clink rel="stylesheet" href="style.css">
clink rel="stylesheet" href="stylesheet" 
                 </head>
    10
                  <body>
    12
                             <div class="container">
                              <?php
    13
                  session_set_cookie_params([
    'lifetime' => 86400 * 30,
    'path' => '/',
    'secure' => true,
    15
    17
                            'httponly' => true,
'samesite' => 'Strict',
    19
   21
                session_start();
                  session_regenerate_id(true);
   24
                 if(isset($_POST["login"]))
                            $email = $_POST["email"];
$password = $_POST["password"];
                             require_once "database.php";
$stmt = $conn->prepare("SELECT * FROM users WHERE email = ?");
                              $stmt->bind_param("s",$email);
    31
                              $stmt->execute();
                              $result = $stmt->get_result();
                             $\sqrt = \sqrt{\geta_i \sqrt{\geta_i}}
$\user = \mysqli_fetch_array(\sqrt{\geta_i}\text{\geta_i}\text{\geta_i});
$\sql = \sqrt{\geta_i} \text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\text{\geta_i}\
    33
                              $result = mysqli_query($conn,$sql);
     35
36
                             $user = mysqli_fetch_array($result, MYSQLI_ASSOC);
                              if($user) {
37
                                             if (password_verify($password, $user["Password"])) {
38
                                                          $_SESSION["user"] = "yes";
39
                                                           setcookie("user_email", $email, time() + (86400 * 30), "/");
40
41
                                                          header("Location: index.php");
42
                                                          die();
43
                                             }else{
                                                          echo"<div class ='alert alert-danger'>Password does not match</div>";
46
                              }else{
47
                                             echo"<div class = 'alert alert-danger'>Email does not match</div>";
48
49
50
51
52
                  ?>
                                             <form action="login.php"method="post">
                                                         <div class="form-group">
55
                                                                        <input type="email" placeholder="Enter Email:" name="email" class="form-control">
56
57
                                                          </div>
58
                                                          <div class="form-group">
59
                                                                      <input type="password" placeholder="Enter Password: name="password" class="form-control">
60
                                                           </div>
                                                           <div class="form-btn">
                                                                        <input type="submit" value="Login" name="login" class="btn btn-primary">
                              </br>
65
                              <div>Not registered yet <a href="registration.php">Register Here </a></div>
66
                              </div>
67
                </body>
68
69
               </html>
```

#### This line is used to prevent from the session hijacking:

```
3
        <?php
4
    session set cookie params([
        'lifetime' => 86400 * 30,
5
        'path' => '/',
6
        'secure' => true,
7
        'httponly' => true,
8
        'samesite' => 'Strict',
9
0
   ]);
1
    session_start();
2
    session regenerate id(true);
3
4
```

- Set session.cookie will prevent the session cookie from being accessible by JavaScript, which can help mitigate against certain types of attacks.
- Regenerate the session ID on every request: This will ensure that the session ID changes frequently, making it harder for an attacker to hijack a session.

## Finally I pushed all my code into the github:

https://github.com/SureshXavier/doherty.git