

LAB 11

OBJECTIVE

To make a complete PHP project with features such as user authentication, database operations, session variables etc

DESCRIPTION

User authentication is a process of validating users with some keys, token or any other credentials. If the user gives correct credentials then the authentication process will be successful. After successful authentication, the users will be allowed to the system as authenticated users.

In PHP code, it executes a SELECT query to check if a user found in the database with the entered login credentials. If a match is found, then the authentication process will be cleared by the user who attempts login. After successful login, the authenticated user will be allowed to enter into the application.

A session is a way to store information (in variables) to be used across multiple pages. Unlike a cookie, the information is not stored on the users computer.

When we work with an application, we open it, do some changes, and then we close it. This is much like a Session. The computer knows who we are. It knows when we start the application and when we end. But on the internet there is one problem: the web server does not know who we are or what we do, because the HTTP address doesn't maintain state. Session variables solve this problem by storing user information to be used across multiple pages (e.g. username, favorite color, etc). By default, session variables last until the user closes the browser. Session variables hold information about one single user, and are available to all pages in one application.

With PHP, we can connect to and manipulate databases. CRUD operations are basic data manipulation for databases. CRUD is an acronym for Create, Read, Update, and Delete.

CODE

db.php

```
<?php
$pdo = new PDO('mysql:dbname=sagarmatha;host=localhost','root','');
?>
```

login.php

```
<?php
    require 'db.php';
    session_start();
    if (isset($_SESSION['suserid']))
    {
        header('Location:index.php');
    }
    if (isset($_POST['login']))
    {
        extract ($_POST);
        $user = $pdo->prepare("SELECT * from table_user
                                WHERE username=:username and password=:password");

        $criteria = ['username'=>$username, 'password'=>$password];
        $user->execute($criteria);
        if ($user->rowCount()==1)
        {
            $row = $user->fetch();
            $_SESSION['suserid'] = $row['id'];
            header('Location:index.php?welcome=You are logged in');
        }
        else
        {
            echo 'Invalid username or password. Please try again.';
        }
    }
?>
```

```
<h2>Login Here</h2>
<form method="POST" action="">
    Username : <input type="text" name="username"><br><br>
    Password : <input type="password" name="password"><br><br>
    <input type="submit" name="login" value="Login">
</form>
```

index.php

```
<?php
    session_start();
    if (!isset($_SESSION['suserid']))
    {
        header('Location:login.php');
    }
    if(isset($_GET['welcome']))
    {
        echo $_GET['welcome'];
    }
?>
<br>
<br>
<a href="user.php"><input type="submit" value="User
Panel"></a>&nbsp;
<br><br>
<a href="logout.php"><input type="submit" value="Log Out"></a>
```

logout.php

```
<?php
    session_start();
    session_unset();
    session_destroy();
    header("Location:login.php");
?>
```

user.php

```
<?php
    session_start();
    if (!isset($_SESSION['suserid']))
    {
        header('Location:login.php');
    }
    // $pdo = new PDO('mysql:dbname=sagarmathacsit;host=localhost',
                    'root','');
    require 'db.php';

    if(isset($_POST['add']))
    {
        // $name = $_POST['name'];
        // $address = $_POST['address'];
        // $email = $_POST['email'];
        // $birthdate = $_POST['birthdate'];
        extract ($_POST); //make variables of array index
        $r=$pdo->query("INSERT INTO
                        table_user(id,name,address,email,birthdate)
                        VALUES('','$name','$address','$email','$birthdate')");
        // if($r == true) echo 'User detail inserted';
        // else echo 'Not inserted';
        echo 'Inserted';
    }

    if (isset($_GET['msg']))
    {
        echo $_GET['msg'];
    }

    if (isset($_GET['id']))
    {
        $id = $_GET['id'];
        $pdo -> query ("DELETE FROM table_user WHERE id='$id'");
        echo 'User Deleted';
    }
?>
```

```

<h3>Enter User Detail</h3>
<form method = "POST" action = "">
    Name : <input type = "text" name = "name"><br><br>
    Address : <input type = "text" name = "address"><br><br>
    Email : <input type = "email" name = "email"><br><br>
    Birth Date : <input type = "date" name = "birthdate"><br><br>
    <input type = "submit" name = "add" value = "Add">
</form>

```

```

<h3>UserList</h3>
<table border="1">
    <tr>
        <th>Name</th>
        <th>Address</th>
        <th>Email</th>
        <th>Birth Date</th>
        <th>Action</th>
    </tr>
    <?php
        $userList = $pdo -> query ("SELECT * FROM table_user");
        foreach ($userList as $user)
        {
            ?>
            <tr>
                <td><?php echo $user['name']?></td>
                <td><?php echo $user['address']?></td>
                <td><?php echo $user['email']?></td>
                <td><?php echo $user['birthdate']?></td>
                <td>
                    <a href="edituser.php?id=<?php echo $user['id'];?>">
                        Edit</a>
                    <a href="user.php?id=<?php echo $user['id'];?>">
                        Delete</a>
                </td>
            </tr>
            <?php
                }
            ?>
        </table>

<br><br>
<a href="index.php"><input type = "submit" value="Back"></a>

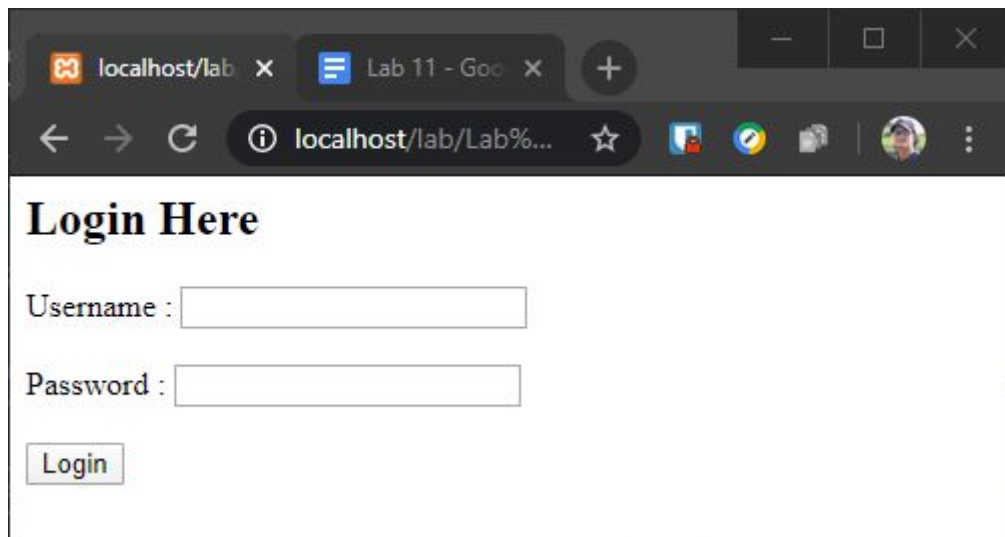
```

edituser.php

```
<?php
    if(!isset($_GET['id']))
    {
        header('Location:user.php');
    }
    // $pdo = new PDO('mysql:dbname=sagarmathacsit;host=localhost',
                    'root', '');
    require 'db.php';
    $id = $_GET['id'];
    $stmt=$pdo -> query("SELECT * FROM table_user WHERE id ='$id'");
    $user = $stmt -> fetch();
    if(isset($_POST['update']))
    {
        extract($_POST); //make variables of array index
        $pdo ->query ("UPDATE table_user
                        SET name ='$name', address='$address',
                            email ='$email',birthdate='$birthdate'
                        WHERE id = '$id'");
        header('Location:user.php?msg=User Updated');
    }
?>
```

```
<h3>Edit User Detail</h3>
<form method = "POST" action = "">
    <input type="hidden"name="id" value="<?php echo $user['id'];?>">
    Name : <input type = "text" name = "name" value="
        <?php echo $user['name'];?>
        "><br><br>
    Address : <input type = "text" name = "address" value="
        <?php echo $user['address'];?>
        "><br><br>
    Email : <input type = "email" name = "email" value="
        <?php echo $user['email'];?>
        "><br><br>
    Birth Date : <input type = "date" name = "birthdate" value="
        <?php echo $user['birthdate'];?>
        "><br><br>
    <input type = "submit" name = "update" value = "Update">
</form>
```

OUTPUT



localhost/lab x Lab 11 - Google x +

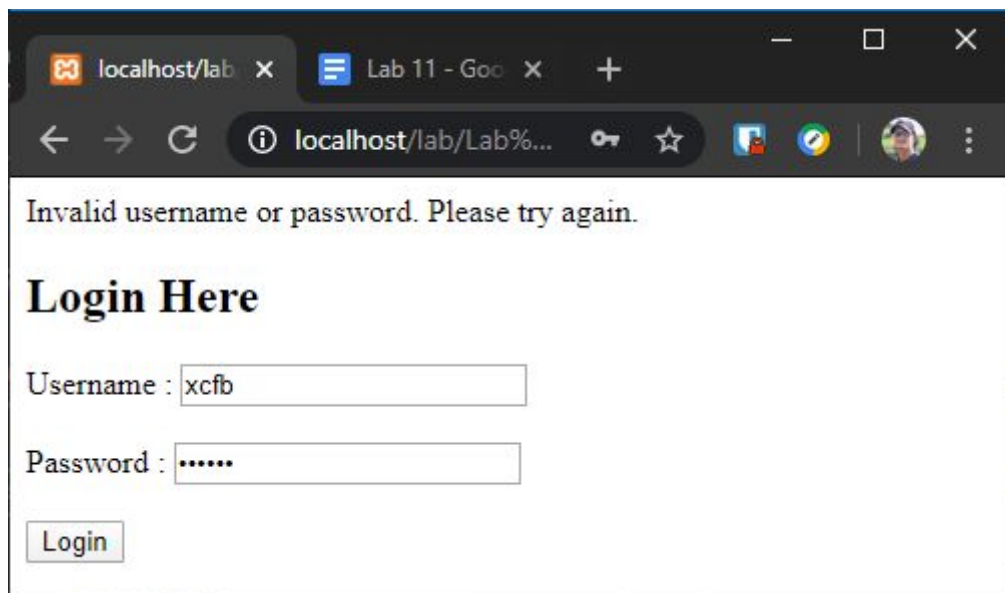
localhost/lab/Lab%... ☆

Login Here

Username :

Password :

Login



localhost/lab x Lab 11 - Google x +

localhost/lab/Lab%... ☆

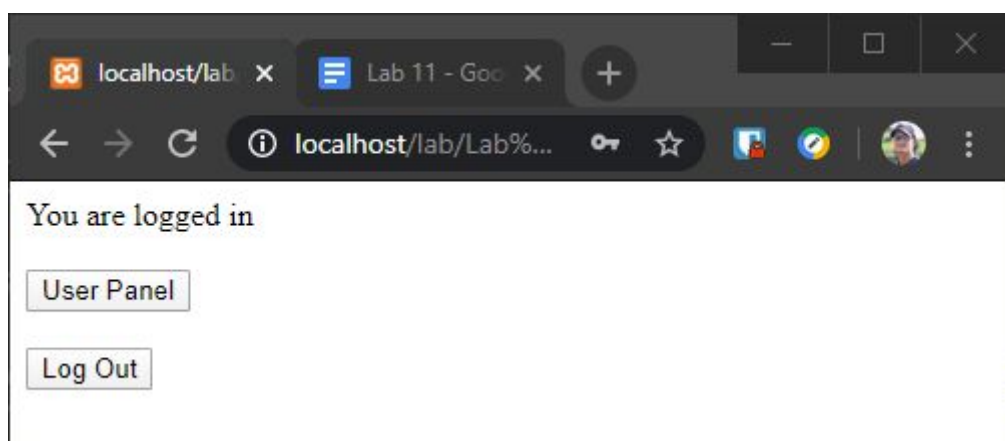
Invalid username or password. Please try again.

Login Here

Username :

Password :

Login



localhost/lab x Lab 11 - Google x +

localhost/lab/Lab%... ☆

You are logged in

User Panel

Log Out

localhost/lab/Lab 11/

Lab 11 - Google Docs

+

localhost/lab/Lab%201...

☆

Enter User Detail

Name :

Address :

Email :

Birth Date :

UserList

Name	Address	Email	Birth Date	Action
Tirtha Raj Poudel	Kirtipur	tirtharajpoudel.trp@gmail.com	1999-08-18	Edit Delete
Ram	Ayodha	ram@gmail.com	2020-02-26	Edit Delete
Ravan	Lanka	ravan@gmail.com	2020-02-02	Edit Delete
Sita Mata	Janakpur	sita@narad.com	2020-02-26	Edit Delete

localhost/lab/Lab 11/

Lab 11 - Google Docs

+

localhost/lab/Lab%201...

☆

Edit User Detail

Name :

Address :

Email :

Birth Date :

SUMMARY

In this lab, we created a fully functional website using PHP with features such as user authentication, basic database operations (CRUD operations), sessions and more.

COMMENT