**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="

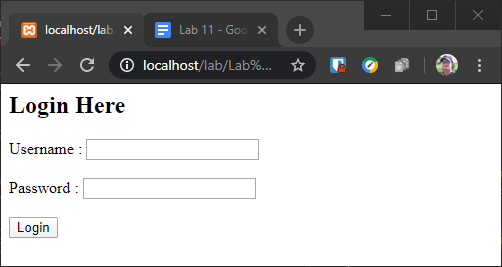
<?php echo $user['birthdate'];?>

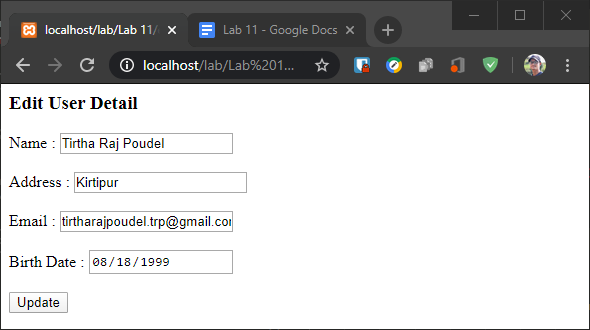
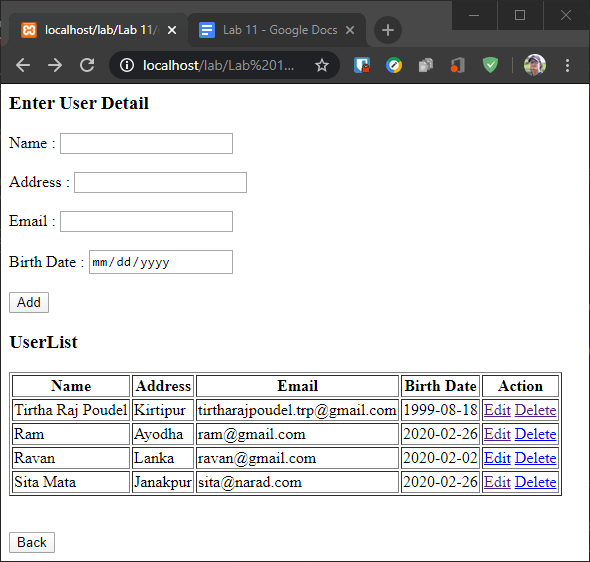
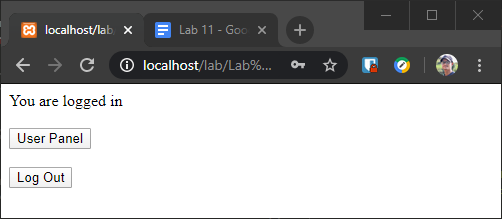
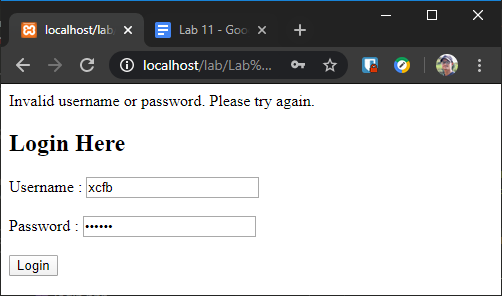
"><br><br>

<input type = "submit" name = "update" value = "Update">

</form>

**OUTPUT**

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**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**