**Create a Registration and Login**

Here is the quick solution to build a login system with PHP and MySQL. Nowadays almost every website provides Registration and login functionality. Thus, it is necessary to add a login system in modern web applications.

Users can create an account by providing username, password, email. After the account is created, the user can log in. Once the user login, it will redirect to a dashboard page. The user can logout from his panel.

This will also ensure you build secure pages that are only accessed by logged in users. If a user is not logged in, they cannot access the page. You will use the following seven step process:

1. Create a Database and Database Table
2. Connect to the Database
3. Session Create for Logged in User
4. Create a Registration and Login Form
5. Make a Dashboard Page
6. Create a Logout (Destroy session)
7. CSS File Create

**Create a Database and Database Table**

Log in to PHPMyAdmin. Click on the Database tab to create a new database. Enter your database name and click on create database button.

Once you have created a database, you need to create a user table. The user’s table will have the following fields:

* id – int(11)
* username  – varchar(100)
* email  – varchar(100)
* password  – varchar(100)
* create\_datetime – datetime

CREATE TABLE IF NOT EXISTS `users` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`username` varchar(50) NOT NULL,

`email` varchar(50) NOT NULL,

`password` varchar(80) NOT NULL,

`create\_datetime` datetime NOT NULL,

PRIMARY KEY (`id`)

);

You can use the above query and execute it in the SQL query area.

**Connect to the Database**

Create a file named db.php and put the following code inside it.

<?php

// Enter your host name, database username, password, and database name.

$con = mysqli\_connect("localhost","root","","dbName");

// Check connection

if (mysqli\_connect\_errno()){

echo "Failed to connect to MySQL: " . mysqli\_connect\_error();

}

?>

**Session Create for Logged in User**

Next, we have to create a session for the user. Create a file named auth\_session.php and paste the codes below.

<?php

session\_start();

if(!isset($\_SESSION["username"])) {

header("Location: login.php");

exit();

}

?>

**Creating a Registration Form**

Furthermore, create PHP file registration.php and paste the following example code in it. This will create an HTML form. It will allow users to register.

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title>Registration</title>

<link rel="stylesheet" href="style.css">

</head>

<body>

<?php

require('db.php');

// When form submitted, insert values into the database.

if (isset($\_POST['username'])) {

// removes backslashes

$username = stripslashes($\_POST ['username']);

//escapes special characters in a string

$username = mysqli\_real\_escape\_string($con, $username);

$email = stripslashes($\_POST['email']);

$email = mysqli\_real\_escape\_string($con, $email);

$password = stripslashes($\_POST ['password']);

$password = mysqli\_real\_escape\_string($con, $password);

$create\_datetime = date("Y-m-d H:i:s");

$query = "INSERT into `users` (username, password, email, create\_datetime) VALUES ('$username', '" . password\_hash($password,PASSWORD\_DEFAULT) . "', '$email', '$create\_datetime')";

$result = mysqli\_query($con, $query);

if ($result) {

echo "<div class='form'>

<h3>You are registered successfully.</h3><br>

<p class='link'>Click here to <a href='login.php'>Login</a></p>

</div>";

} else {

echo "<div class='form'>

<h3>Required fields are missing.</h3><br>

<p class='link'>Click here to <a href='registration.php'>registration</a> again.</p>

</div>";

}

} else {

?>

<form class="form" action="" method="post">

<h1 class="login-title">Registration</h1>

<input type="text" class="login-input" name="username" placeholder="Username" required>

<input type="text" class="login-input" name="email" placeholder="Email Adress">

<input type="password" class="login-input" name="password" placeholder="Password">

<input type="submit" name="submit" value="Register" class="login-button">

<p class="link"><a href="login.php">Click to Login</a></p>

</form>

<?php

}

?>

</body>

</html>

**Creating a Login Form**

Similarly, create a PHP file login.php and put the following example code in it. This file code contains a form that allows users to enter username and password.

<body>

require('db.php');

session\_start();

// When form submitted, check and create user session.

if (isset($\_POST['username'])) {

$username = stripslashes($\_POST['username']); // removes backslashes

$username = mysqli\_real\_escape\_string($con, $username);

$password = stripslashes($\_POST['password']);

$password = mysqli\_real\_escape\_string($con, $password);

// Check user is exist in the database

$query = "SELECT \* FROM `users` WHERE username='$username'";

$result = mysqli\_query($con, $query) or die(mysql\_error());

$check = mysqli\_fetch\_assoc($result);

$result\_string = $check['password'];

$password\_check=password\_verify($\_POST['password'],$result\_string);

if ($password\_check) {

$\_SESSION['username'] = $username;

// Redirect to user dashboard page

header("Location: dashboard.php");

} else {

echo "<div class='form'>

<h3>Incorrect Username/password.</h3><br>

<p class='link'>Click here to <a href='login.php'>Login</a> again.</p> </div>";

}

} else {

?>

<form class="form" method="post" id="login">

<h1 class="login-title">Login</h1>

<input type="text" class="login-input" name="username" placeholder="Username" autofocus>

<input type="password" class="login-input" name="password" placeholder="Password">

<input type="submit" value="Login" name="submit" class="login-button">

<p class="link">Don't have an account? <a href="registration.php">Registration Now</a></p>

</form>

<?php

}

?>

**Making a Dashboard Page**

Once user login we will redirect to the user dashboard page. Create a PHP file named dashboard.php and paste the below code in it.

<?php

//include auth\_session.php file on all user panel pages

include("auth\_session.php");

?>

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title>Dashboard - Client area</title>

<link rel="stylesheet" href="style.css">

</head>

<body>

<div class="form">

<p>Hey, <?php echo $\_SESSION['username']; ?>!</p>

<p>You are now user dashboard page.</p>

<p><a href="logout.php">Logout</a></p>

</div>

</body>

</html>

After the user login, you will see a user dashboard screen. Similarly, you can create another secure page. All you need to add is the below code at the top of your PHP file.

**<?php**

require('db.php');

include("auth\_session.php");

**?>**

**Create a Logout**

When clicking on the logout button we have to destroy user sessions. It will redirect to the login page. Thus, create a file named logout.php and add the below code.

<?php

session\_start();

if(session\_destroy()) {

// Redirecting To Home Page

header("Location: login.php");

}

?>

**CSS File Create**

Finally, an important step from a user experience perspective is to create the CSS file style.css and put the below code.

body {

background: #3e4144;

}

.form {

margin: 50px auto;

width: 300px;

padding: 30px 25px;

background: white;

}

h1.login-title {

color: #666;

margin: 0px auto 25px;

font-size: 25px;

font-weight: 300;

text-align: center;

}

.login-input {

font-size: 15px;

border: 1px solid #ccc;

padding: 10px;

margin-bottom: 25px;

height: 25px;

width: calc(100% - 23px);

}

.login-input:focus {

border-color:#6e8095;

outline: none;

}

.login-button {

color: #fff;

background: #55a1ff;

border: 0;

outline: 0;

width: 100%;

height: 50px;

font-size: 16px;

text-align: center;

cursor: pointer;

}

.link {

color: #666;

font-size: 15px;

text-align: center;

margin-bottom: 0px;

}

.link a {

color: #666;

}

h3 {

font-weight: normal;

text-align: center;

}