

PHP Tutorial – Login using Session

System flow chart

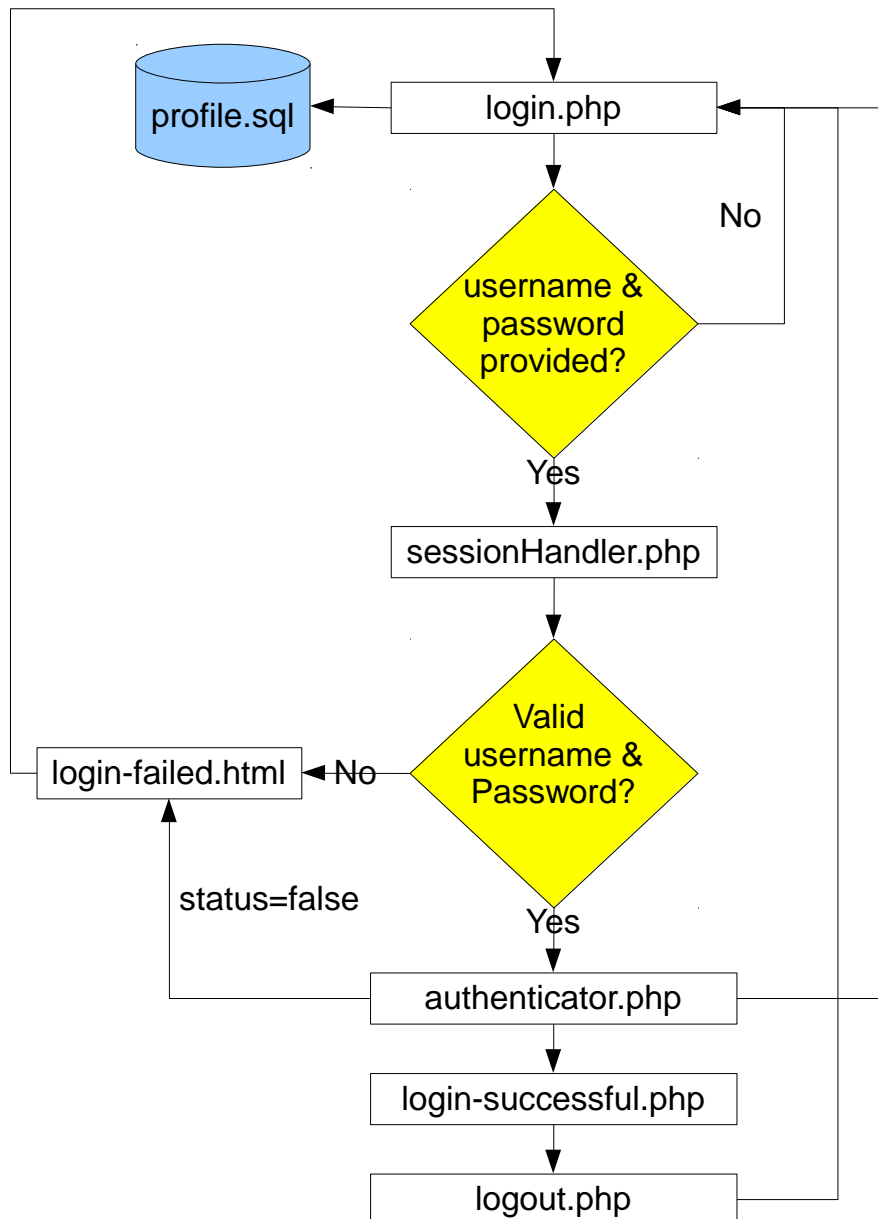


Figure 1: Login system structure



Table 1: Description of each web page file

File Name	Description
login.php	Login interface.
sessionHandler.php	To handle login information and create a session for that user.
authenticator.php	To verify user identity in accessing this website. Include this file in every protected page to avoid unauthorized user enter.
login-successful.php	To display protected web page if user is valid. If you enter directly to this page, you will be checked by the authenticator, and then redirect to login-failed.html.
login-failed.html	To display error message if user is invalid.
logout.php	To logout from the website and destroy the self identity.

Creating 'profile' table using 'ngchoonching' database

	Field	Type	Collation	Attributes	Null	Default	Extra	Action							
<input type="checkbox"/>	<u>id</u>	int(11)			No	None	auto_increment								
<input type="checkbox"/>	username	varchar(50)	latin1_swedish_ci		No	None									
<input type="checkbox"/>	password	varchar(50)	latin1_swedish_ci		No	None									
<input type="checkbox"/>	firstname	varchar(100)	latin1_swedish_ci		No	None									
<input type="checkbox"/>	lastname	varchar(100)	latin1_swedish_ci		No	None									

Insert dummy data

			id	username	password	firstname	lastname
<input type="checkbox"/>			1	user	pass	World	Hello

Creating Server Side Scripting, PHP

1. Creating index file named as “login.php”

```
<?php
/*
  Filename: login.php
  Purpose: Login interface.
*/
//Start session
session_start();
?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns = "http://www.w3.org/1999/xhtml">
<head>
<title>User provide login information</title>
</head>

<body style = "font-family: arial, sans-serif;
background-color: lightgreen">
<?php

    // to display error message if username and password is invalid
    if (isset($_SESSION['ERRMSG_ARR']))
    {
        echo "<h1 style='color:red'>Error found: ";
        for ($i=0; $i<count($_SESSION['ERRMSG_ARR']); $i++){
            echo $_SESSION['ERRMSG_ARR'][$i]."! ";
        }
        echo "</h1>";
        unset($_SESSION['ERRMSG_ARR']);
    }

?>
    <h2>Click Login to save your session data.</h2>
    <form method = "post" action = "sessionHandler.php"
        style = "font-size: 10pt">
        <strong>Username:</strong><br />
        <input type = "text" name = "uname" /><br />

        <strong>Password:</strong><br />
        <input type = "password" name = "pword" /><br />

        <input type = "submit" value = "Login"
            style = "background-color: #F0E86C; color: navy;
            font-weight: bold" />
        <input type = "reset" value = "Reset" /></p>
    </form>
</body>
</html>
```

2. Creating database connection scripting named as “sessionHandler.php”

```
<?php
/*
Filename: sessionHandler.php
Purpose: To handle login information and create a session for that user.
*/
//Start session
session_start();

//Validation error flag
$errorflag = false;

//Input Validations
if($_POST['uname'] == '') {
    $errmsg_arr[] = 'Login ID missing';
    $errorflag = true;
}
if($_POST['pword'] == '') {
    $errmsg_arr[] = 'Password missing';
    $errorflag = true;
}

//If there are input validations, redirect back to the login form
if($errorflag) {
    $_SESSION['ERRMSG_ARR'] = $errmsg_arr;
    session_write_close();
    header("location: login.php");
    exit();
}

// to make a connection with database
$conn = mysql_connect("localhost", "root", "password") or die(mysql_error());

// to select the targeted database
mysql_select_db("ngchoonching", $conn) or die(mysql_error());

// to create a query to be executed in sql
$katana = $_POST['uname'];
$katataluan = $_POST['pword'];
$query = "SELECT * FROM profile WHERE username = '$katana' AND password = '$katataluan'";

// to run sql query in database
$result = mysql_query($query, $conn) or die(mysql_error());

//Check whether the query was successful or not
if(isset($result)) {
    if(mysql_num_rows($result) == 1) {
        //Login Successful
        session_regenerate_id();
        $member = mysql_fetch_assoc($result);
        $_SESSION['SESS_MEMBER_ID'] = $member['id'];
        $_SESSION['SESS_FIRST_NAME'] = $member['firstname'];
        $_SESSION['SESS_LAST_NAME'] = $member['lastname'];
        $_SESSION['STATUS'] = true;
        session_write_close();
        header("location: login-successful.php");
        exit();
    }
    else {
        //Login failed
        header("location: login-failed.html");
        exit();
    }
}
else {
    die("Query failed");
}

?>
```

3. Creating insert page interface named as “authenticator.php”

```
<?php
/*
Filename: authenticator.php
Purpose: To verify user identity in accessing this website.
Note: Include this file in every protected page to avoid
      unauthorized user enter.
*/
//Start session
session_start();

//Check whether the login status is true or not
if(!isset($_SESSION['STATUS']) || !$_SESSION['STATUS'] == true) {
    header("location: login-failed.html");
    exit();
}
?>
```

4. Creating insert query scripting named as “login-successful.php”

```
<?php
/*
Filename: login-successful.php
Purpose: To display protected web page if user is valid.
Note: If you enter directly to this page, you will be checked by the
      authenticator, and then redirect to login-failed.html.
*/
include("authenticator.php");
echo "<h3>Congratulations, ".$_SESSION['SESS_FIRST_NAME']." ".
$_SESSION['SESS_LAST_NAME']."!!! Login Successfully :)</h3><br />";

?>
<html>
<body>
<h2><u>Top secret page, cannot view here without valid membership!!!</u></h2>
<p>
    Blak blak blak important information. Blak blak blak important information.
    Blak blak blak important information. Blak blak blak important information.
    Blak blak blak important information. Blak blak blak important information.
</p>
<p>
    Blak blak blak important information. Blak blak blak important information.
    Blak blak blak important information. Blak blak blak important information.
    Blak blak blak important information. Blak blak blak important information.
</p>
<p>
    Blak blak blak important information. Blak blak blak important information.
    Blak blak blak important information. Blak blak blak important information.
    Blak blak blak important information. Blak blak blak important information.
</p>

<a href="logout.php">Logout Here</a>
</body>
</html>
```

5. Creating display page named as “login-failed.html”

```
<!-- Filename: login-failed.html -->
<!-- Purpose: To display error message if user is invalid. -->
<html>
<body>

<h3>Incorrect <span style="color:red; font-size:50pt">username</span>
and <span style="color:red; font-size:50pt">password</span>,
please try again in <a href='login.php'>login page</a>.</h3>

</body>
</html>
```

6. Creating update query scripting named as “logout.php

```
<?php
/*
  Filename: logout.php
  Purpose: To logout from the website and destroy the self identity.
*/
//Start session
session_start();

//Unset the variables stored in session
session_destroy();
?>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<title>Logged Out</title>
<link href="loginmodule.css" rel="stylesheet" type="text/css" />
</head>
<body>

<h1 align="center">See you again, bye!!!</h1>
<h4 align="center" class="err">You have been logged out.</h4>
<p align="center">Click here to <a href="login.php">Login</a></p>

</body>
</html>
```