**Modules Title: WEB APPLICATION DEVELOPMENT**

**LU3. Perform PHP MySQL Database interactions**

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**LO4. Manage Sessions and Cookies**

**Topic: PHP – Sessions**

An alternative way to make data accessible across the various pages of an entire website is to use a PHP Session.

A session creates a file in a temporary directory on the server where registered session variables and their values are stored. This data will be available to all pages on the site during that visit.

The location of the temporary file is determined by a setting in the **php.ini** file called **session.save\_path**. Before using any session variable make sure you have setup this path.

When a session is started following things happen −

* PHP first creates a unique identifier for that particular session which is a random string of 32 hexadecimal numbers such as 3c7foj34c3jj973hjkop2fc937e3443.
* A cookie called **PHPSESSID** is automatically sent to the user's computer to store unique session identification string.
* A file is automatically created on the server in the designated temporary directory and bears the name of the unique identifier prefixed by sess\_ ie sess\_3c7foj34c3jj973hjkop2fc937e3443.

When a PHP script wants to retrieve the value from a session variable, PHP automatically gets the unique session identifier string from the PHPSESSID cookie and then looks in its temporary directory for the file bearing that name and a validation can be done by comparing both values.

A session ends when the user loses the browser or after leaving the site, the server will terminate the session after a predetermined period of time, commonly 30 minutes duration.

## Starting a PHP Session

A PHP session is easily started by making a call to the **session\_start()** function.This function first checks if a session is already started and if none is started then it starts one. It is recommended to put the call to **session\_start()** at the beginning of the page.

Session variables are stored in associative array called **$\_SESSION[]**. These variables can be accessed during lifetime of a session.

The following example starts a session then register a variable called **counter** that is incremented each time the page is visited during the session.

Make use of **isset()** function to check if session variable is already set or not.

Put this code in a test.php file and load this file many times to see the result −

<?php

session\_start();

if( isset( $\_SESSION['counter'] ) ) {

$\_SESSION['counter'] += 1;

}else {

$\_SESSION['counter'] = 1;

}

$msg = "You have visited this page ". $\_SESSION['counter'];

$msg .= "in this session.";

?>

<html>

<head>

<title>Setting up a PHP session</title>

</head>

<body>

<?php echo ( $msg ); ?>

</body>

</html>

It will produce the following result −

You have visited this page 1in this session.

## Destroying a PHP Session

A PHP session can be destroyed by **session\_destroy()** function. This function does not need any argument and a single call can destroy all the session variables. If you want to destroy a single session variable then you can use **unset()** function to unset a session variable.

Here is the example to unset a single variable −

<?php

unset($\_SESSION['counter']);

?>

Here is the call which will destroy all the session variables −

<?php

session\_destroy();

?>

## Turning on Auto Session

You don't need to call start\_session() function to start a session when a user visits your site if you can set **session.auto\_start** variable to 1 in **php.ini** file.

## Sessions without cookies

There may be a case when a user does not allow to store cookies on their machine. So there is another method to send session ID to the browser.

Alternatively, you can use the constant SID which is defined if the session started. If the client did not send an appropriate session cookie, it has the form session\_name=session\_id. Otherwise, it expands to an empty string. Thus, you can embed it unconditionally into URLs.

The following example demonstrates how to register a variable, and how to link correctly to another page using SID.

<?php

session\_start();

if (isset($\_SESSION['counter'])) {

$\_SESSION['counter'] = 1;

}else {

$\_SESSION['counter']++;

}

$msg = "You have visited this page ". $\_SESSION['counter'];

$msg .= "in this session.";

echo ( $msg );

?>

<p>

To continue click following link <br />

</p>

It will produce the following result −

You have visited this page 1in this session.

To continue click following link