

So, what is the SESSION?

Session in term of server-side scripting concern is the connection between a client (browser) and the server that hosting the web application. Each time a client connects to a web server, there is a connection happens. The connection can be registered in the server and there are a lot of information regarding the connection that can be recorded in the web server. For example the web browser being used or the IP number.

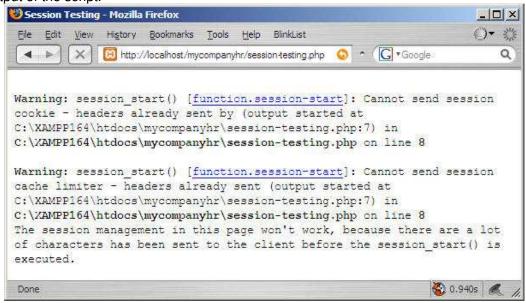
Starting a session

Each unique connection provides a unique session id. To enable the session management of a page, first the <code>session_start()</code> function must be executed. This function can only work if there is no information from the page was sent to the client, not even a space or a single bit.

For example, try the following code.

```
<html>
<head>
                                      This information has been sent to the
<title>Session Testing</title>
                                      client. It is the reason why the
</head>
                                      sesion_start() function fail to executed.
<body>
<?php
      session_start();
      //trying to start session management
?>
The session management in this page won't work, because there are a
lot of characters has been sent to
                                              the client before the
session start() is executed.
</body>
</html>
```

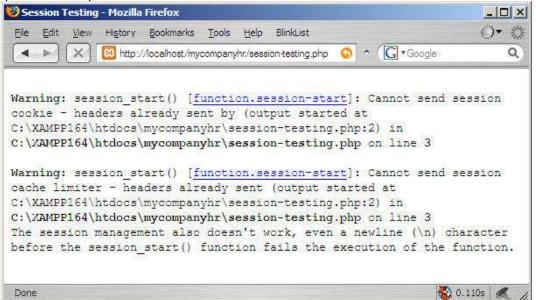
Output of the script.



This example also doesn't work. The problem is caused by only a newline ('\n') character before the session start() function.

```
session-testing.php
 Code Split Design
                            Title: Session Testing
                                                      (2) (B) (C)
                                            The failure is only caused by
   <?php
                                            a newline ('\n') character
3
       session start();
  2>
4
   <html>
  <head>
   <title>Session Testing</title>
   </head>
10 <body>
11 The session management also doesn't work, even a newline (\n) character
12 before the session start() function fails the execution of the function.
13 </body>
```

Output of the script.



At last, a working example.

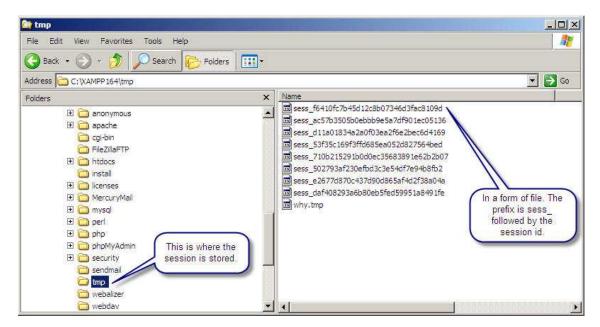
```
session-testing-works.php
                              Title: Session Testing that Works
                                                         TO UR CO.
 Ocode Split Design
  <?php
 2
       session_start();
 3 ?>
 4 <html>
   <head>
   <title>Session Testing that Works</title>
   </head>
                                                        This is the function to
8
  <body>
                                                         generate session id
9 This session management works. <br>
                                                           automatically
10
        echo 'The session id: '.session id();
11
12
   </body>
```

The output of the script.



So where is this session information is stored?

Currently we are using XAMPP. By default the Apache web server store the session information in the tmp directory. Each session will generate a file with the sess_ as the prefix, and followed by the session id.



Try to open the file and you will nothing is stored in the file where the latest session was created using the script in previous page. This is because there is no session variable is registered.

Session variable registration need to be done in order to store values to be used as long as the session (or the connection) is established. For example, in a web application there are few files connected to each other. In order to maintain a certain amount of value to be used for every pages in the system, we need to store it in the session variable. For example the username of the user who are using the system.

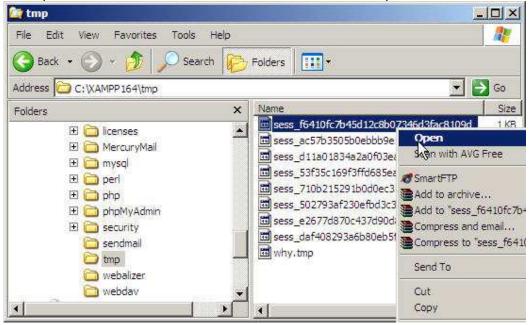
Registering a session variable

To store the username (so that all the pages in the system will be displaying the same username) we need to register a session variable. The following script is to register few session variable.

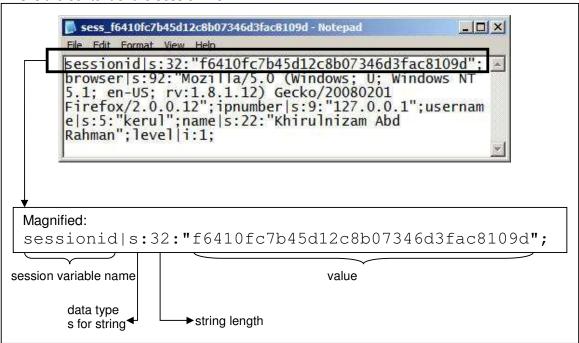
```
session_start();
<?php
<html>
<head>
<title>Session Registration</title>
</head>
<body>
This page is to register user's information. <br>
<?php
if(!isset($ SESSION['sessionid'])){
     $_SESSION['sessionid']=session_id();//session id
     $_SESSION['browser']=$_SERVER['HTTP_USER_AGENT'];//browser
     $_SESSION['ipnumber']=$_SERVER['REMOTE_ADDR'];//client's ip
     $_SESSION['username']="kerul";//the username
     $ SESSION['name']="Khirulnizam Abd Rahman";//full name
     $_SESSION['level']=1;//user access level
?>
</body>
</html>
```

The script provide the registration of four session variable namely; *sessionid*, *username*, *name* and *level*, with their respective value.

Now open the file where the server store the session id in notepad.



This is the content of the session file.



Using the session variable.

```
<?php session_start(); ?>
<html>
<head>
<title>Session Usage</title>
</head>
<body>
This page is to use user's information stored in session. <br>
<?php
     echo $_SESSION['sessionid'].'<br>';
     echo $_SESSION['browser'].'<br>';
     echo $_SESSION['ipnumber'].'<br>';
     echo $_SESSION['username'] .'<br>';
     echo $ SESSION['name'] .'<br>';
     echo $ SESSION['level'] .'<br>';
?>
</body>
</html>
```

Checking the session variable.

```
<?php
    session_start();
?>
<html>
<head>
<title>Session Checking</title>
</head>
<body>
This page is to check whether user's information are stored in the session.<br/>
session.<br/>
```

```
<?php
     if (isset($_SESSION['sessionid'])) {
           echo $_SESSION['sessionid'] .'<br>';
           echo $_SESSION['browser'].'<br>';
           echo $_SESSION['ipnumber'].'<br>';
           echo $ SESSION['username'] .'<br>';
           echo $_SESSION['name'] .'<br>';
           echo $_SESSION['level'] .'<br>';
     else{
           $_SESSION['sessionid']=session_id();
           $_SESSION['browser']=$_SERVER['HTTP_USER_AGENT'];
           $_SESSION['ipnumber']=$_SERVER['REMOTE_ADDR'];
           $_SESSION['username']="kerul";
           $_SESSION['name']="Khirulnizam Abd Rahman";
           $_SESSION['level']=1;
?>
</body>
</html>
```

Destroy the session variable.

```
<?php
     session_start();
?>
<html>
<head>
<title>Session Checking</title>
</head>
<body>
This page is to check whether user's information are stored in the
session. <br>
<?php
     if (isset($_SESSION['sessionid'])){
           session_destroy();//this to destroy all session info
     }
?>
</body>
</html>
```