Lab 6 – Managing State Information

Create a new folder 'lab06' under the unit folder on the cmslamp14 server Save today's work in this lab06 folder.

Task 1: Up and down counter using session (8 marks)

The overall task is to create a simple web application that displays an integer and contains three links to update the integer. One link increments the integer by 1, another link decrements the integer by 1, and the last link sets it to 0.

Step 1:

Create a file **number.php** that starts up a session, creates a session variable if it does not exists and displays it on the web page.

```
<?php
                                      // start the session
   session start();
   if (!isset ($ SESSION["number"])) { // check if session variable exists
     $ SESSION["number"] = 0;
                                      // create the session variable
   $num = $ SESSION["number"];
                                      // copy the value to a variable
  2>
  <ht.ml>
  <head>
     <title>Managing Session</title>
 </head>
 <body>
 <h1>Web Development - Lab06</h1>
     echo "The number is $num";
                                            // displays the number
 <a href="numberup.php">Up</a>
                                            <!-links to updating page -->
 <a href="numberdown.php">Down</a>
  <a href="numberreset.php">Reset</a>
</body>
</html>
```

Step 2:

Create a file **numberup.php** that increments the session variable by 1. This page does not contain any HTML tags and redirects to the **number.php** after update.

Step 3:

Create a file **numberdown.php** that decrements the session variable by 1. This page does not contain any HTML tags and redirects to the **number.php** after update.

```
(____(7)___); // redirect to number.php ?>
```

Step 4:

Create a file numberreset.php that clears out all session variables and redirects to the number.php after reset.

Test in the browser, and check that the page is valid Strict XHTML.

Task 2: Creating a simple "Guessing Game" (2 marks)

The overall task is to create a simple web application that generates and uses **sessions** to store a random number between 0 and 100.

Step 1:

Create a file guessinggame.php that will be the main page for the game. In this page, a user inputs their guess; the page displays the number of times the user has guessed; whether their number is higher or lower than the generated number; and congratulates them when they guess correctly. (Checking always if the input data is "in-range" and is numeric). It also include a 'Give Up' link to giveup.php, and a 'Start Over' link to startover.php.



Hint:

The PHP's rand() function can be used to generate a random integer.

The rand () function accepts two arguments: the first argument specifies the minimum integer to generate; and the second argument specifies the maximum integer to generate.

For example, the statement

\$randNum = rand(10,20) generates a random
integer between 10 and 20 and assigns the number to the
\$randNum variable.

Step 2:

Create a file giveup.php that displays the random number generated for the current game. The value of the random number is accessed via the session variable

Step 3:

Create a file startover.php that has no html tags, it simply destroys the session then redirects the user back to guessinggame.php

Hint: Use header ("location: URL") function to provide redirection.

Guessing Game

The hidden number was: 40
Start Over