Lab 6 – Logical and Conditional Statements

Purpose

- Solve problems using logical and conditional statements of PHP
- Upload your website to a Web server

Due Date

- This lab must be handed in:
  Sunday Oct 23, 2020 – before midnight

Assessment

- This Lab is worth 2% of your total course mark.

Assigned Readings

The following chapters of **Fundamentals of Web Development** will be useful in completing this exercise:

- Chapter 4
- Chapter 8

Lab Supplies

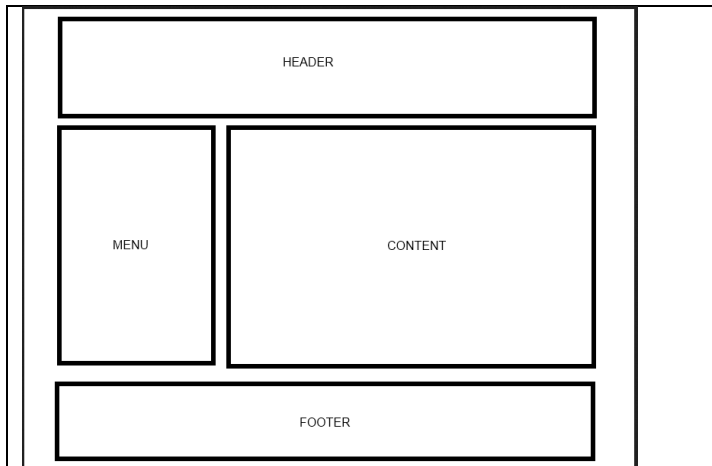To complete this lab you will require the following lab supplies:

- Textbook: **Fundamentals of Web Development** by Randy Connolly and Ricardo Hoar
- EasyPHP, or other WAMP server
- Eclipse, Notepad++ (or other text editor, or IDE)

Summary of Tasks

1. Develop the logic to display the song 99 Bottles of Beer
2. Develop the logic to order a random number of Bottles of Beer.
3. Develop the logic to draw a specific pattern.
4. Upload your website to the webserver
5. View your webpage using a web browser
6. Submit Lab Link on Brightspace
7. Submit source code of all PHP files on Brightspace

Task 1

Implement the following Design Pattern to create a 'Common Look and Feel' to be used on every page of your website.

Your web site will include the following PHP scripts:
- Header.php
- Footer.php
- Menu.php
- index.php
- DivideByThree.php
- Random.php
- Pattern.php

Header.php
Header.php must contain a script to display a Common Header that will appear on every page.
The header must display Program Name and Course Name

Footer.php
Footer.php must contain a script to display a Common Footer that will appear on every page.
The footer must contain Student Number, First Name, Last Name, Email Address

Menu.php
Menu.php must contain a script to display a Common Menu to be shown on every page. The menu must contain links to index.php, DivideByThree.php, Random.php, and Pattern.php

index.php
In index.php, you need to create a script that will display the lyrics to the song 99 Bottles of beer. To do this you must use the Logical and Conditional statements of PHP. Also use the PHP statement 'include' to add your Header, Menu and Footer to the page.

99 Bottles of Beer example:

	99 bottles of beer on the wall...
	99 bottles of beer...
	You take one down you pass it around ...
	98 bottles of beer on the wall.

	98 bottles of beer on the wall...
	98 bottles of beer...
	You take one down you pass it around ...
	97 bottles of beer on the wall.
	. . . .
	…….
	1 bottle of beer on the wall...
	1 bottle of beer...
	You take one down you pass it around ...
	0 bottle of beer on the wall.

	There are no more bottles of beer.

<u>DivideByThree.php</u>
In DivideByThree.php, you need to create a script that will display modified lyrics to the song 99 Bottles of beer. You must implement it using the Logical and Conditional statements of PHP. Also use the PHP statement 'include' to add your Header, Menu and Footer to the page.

99 Bottles of Beer example:

	99 bottles of beer is a multiple of 3...
	98 bottles of beer is NOT a multiple of 3...
	97 bottles of beer is NOT a multiple of 3...
	96 bottles of beer is a multiple of 3...
	………
	……….
	3 bottles of beer is a multiple of 3...
	2 bottles of beer is NOT a multiple of 3...
	1 bottle of beer is NOT a multiple of 3...

Random.php

In Random.php, you need to create a script that will order/generate a random number of Bottles of Beer. You have to prompt the user for the range of numbers from which the Web server should generate a random number.

If the generated random number is even (e.g., 78), you have to display the following:
 "78 Bottles of Beer can serve even number of guests."

If the generated random number is odd (e.g., 67), you have to display the following:
 "67 Bottles of Beer can serve odd number of guests."

You must implement it using HTML form elements as well as the Logical and Conditional statements of PHP. Also use the PHP statement 'include' to add your Header, Menu and Footer to the page.

Random Bottles of Beer example:

Range 1: [   ]
Range 2: [   ]
[Order]

The Web Server has selected the random number 68 from the range 1 to 99.
68 Bottles of Beer can serve even number of guests.

Hints for Random.php:
The built-in function for generating a random number in PHP is: rand(Range1, Range2). Range 1 and Range 2 values must be accepted from the user prompt.

Pattern.php

Use conditional loop (for/while/do…while) statement of PHP to draw the following pattern. Also use the PHP statement 'include' to add your Header, Menu and Footer to the page.

Note: Please make sure that the header, footer, and menu are distinguishable with respect to the body (main content) of the web page.

Task 2

Create Lab 6 submission folder '**Lab6**' and copy **index.php**, **DivideByThree.php**, **Random.php**, and **Pattern.php** and any other required files **(**e.g**. css file)** into this folder**.**

Task 3

Upload your websites for Lab 6 into a Web Hosting Server by uploading '**Lab6**' folder inside the 'public_html' directory of 'SiteGround' Web Hosting domain using DashBoard.

The 'File Upload' instruction is posted on Brightspace (**Course Contents -> Module 1 -> Part 2 -> SiteGround_FileUpload_Instruction.docx**).

Task 4

View your websites for Lab 6 using a web browser. Open a web browser and navigate to the following web address:

http://your_web-hosting_domain_name/Lab6/<filename>

For example, the sample URL for Lab 6 on an arbitrary web hosting domain is:

rejaulc.sgedu.site/Lab6/index.php

where '*rejaulc.sgedu.site*' is the name of an arbitrary web hosting domain, '*Lab6*' is the submission folder for Lab 6, '*index.php*' is the homepage of Lab 6.

Task 5

Once you have confirmed that your webpage is available online, you are ready to hand in your lab.

Create a compressed file (Lab6.zip) which will contain the following PHP files:
- Header.php
- Footer.php
- Menu.php
- index.php
- DivideByThree.php
- Random.php
- Pattern.php

Create a word document (Lab6.doc) in which write the following Information:
- Student Number
- First Name
- Last Name
- The URL, or hyperlink of the home page (index.php) of Lab 6

To hand in your lab go to Brightspace and navigate to *Course Content* → *Labs* and click on '*Lab 6 - Logical and Conditional Statements*' link.

Upload the word document (**Lab6.doc**) and the compressed file **(Lab6.zip**) on Brightspace.

Finally, click the 'Submit' button to send the lab to your professor.

IMPORTANT NOTE: If the URL, or hyperlink, does not direct the professor to the lab you will receive a ZERO for the lab assignment.

IMPORTANT NOTE:
If you do not upload either Lab6.zip or Lab6.doc on Brightspace, you will receive a ZERO for the lab assignment.