Lab 5 – Preparation and Introduction to PHP

Purpose

- Install Eclipse PHP Developer Tools
- Install EasyPHP
- Create your first PHP website 'Hello World'
- Display your website to your local machine using EasyPHP/WAMP/MAMP Web Server
- Upload your website to a Web server

Due Date

- This lab must be handed in:
  June 26, 2020 – before midnight

Assessment

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

Assigned Readings

➤ **Lecture Slides** posted on Brightspace.

  - Module 3 -> Part 1

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

  - Chapter 8

Lab Supplies

To complete this lab you will require the following lab supplies:
- Lecture Slides (**Module 3 -> Part 1**) posted on Brightspace
- Textbook: **Fundamentals of Web Development**
- Eclipse, Notepad (or other text editor, or IDE)
- FileZilla (or other FTP client)
- EasyPHP Web server

Summary of Tasks

1. Install Eclipse (If you did not install it during Lab 1).
2. Install EasyPHP
3. Create your first PHP web site
4. Display your website in your local machine using EasyPHP/WAMP/MAMP Web Server
5. Upload your website to the webserver
6. View your webpage using a web browser
7. Submit the URL for Lab 5 on Brightspace
8. Submit the source code (i.e., Header.php, Footer.php, Menu.php, Index.php) as a single compressed file **(.zip)** on Brightspace

Task 1

Your first task is to prepare yourself for the coming Labs and Assignments by installing the software needed to be successful in this course.

Eclipse, PHP Development Environment:

1. Navigate to the following web address: http://www.eclipse.org/
2. Download the appropriate Eclipse client (choose the operating system that matches your computer).
   Please download Eclipse from the following URL:
   http://www.eclipse.org/downloads/packages/release/photon/r/eclipse-ide-php-developers

IMPORTANT NOTE:
The Eclipse client does not have a standard installer. To use the software simply unzip the file you downloaded and run the 'Eclipse.exe' executable.

EasyPHP:
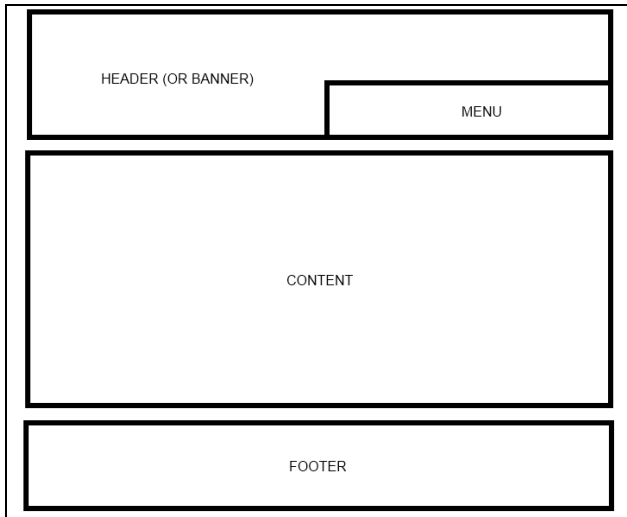
EasyPHP is the WAMP installation we are going to use to develop our PHP websites
1. Navigate to http://www.easyphp.org/easyphp-devserver.php
2. Click the Download link for '**Devserver 14.1 Lite'** to download **'Devserver 14.1 VC9'** version of EasyPHP.
3. Install the software on your Computer (reminder that this WAMP installation is only capable of running on Windows)

To setup EasyPHP in your local machine, please navigate to the following material on Brightspace: Course Content → Extra Material → EasyPHP-Setup (DevServer 14.1 VC9)

Task 2

Before getting started with the following tasks, review the 'Common Look and Feel' video provided on Brightspace (under: Course Content → Extra Materials). Using the knowledge gained in these materials, implement the following Design Pattern to create a 'Common Look and Feel' to be used on every page of your website.

HEADER (OR BANNER)

MENU

CONTENT

FOOTER

Your web site will include the following PHP scripts:
- Header.php
- Footer.php
- Menu.php
- Index.php

Header.php
Header.php must contain a script to display a Header. The header must display Program Name and Course Name

Footer.php
Footer.php must contain a script to display a Footer. The footer must display Student Number, Email Address

Menu.php
Menu.php must contain a script to display a Menu. The menu must contain links to Lab 1, Lab 2, Lab 3 and Lab 4.

Index.php
Index.php must include Header.php, Footer.php, and Menu.php.

The Content Area of Index.php must display the following:

- Your first name, middle name and last name where your first name, middle name and last name need to be declared as PHP variables.
- Your student number which needs to be declared as a PHP constant.
- The text 'Hello World!! This is the first time I am using PHP!!' by concatenating the two strings 'Hello World!!' and 'This is the first time I am using PHP!!'

Task 3

Upload the website to your webserver domain.

Once you connect to the webserver using an FTP client, create a directory called '**/Lab5'** under **'/public_html/CST8238'** directory. Once your personal directory has been created navigate to that new directory. Add your **Header.php**, **Footer.php**, **Menu.php**, **Index.php** files to this location. (Using FileZilla simply drag the files into your folder)

Task 4

View your website using a web browser. Open a web browser and navigate to the following web address:

http://web-server_domain_name/CST8238/Lab5/<filename>

For example, the web address to my page is:
http://rejaulchowdhury.com/CST8238/Lab5/Index.php

Where 'rejaulchowdhury.com' is the domain name of the Web server, ' CST8238/Lab5' is the name of the directory I created in the Web server under '/public_html' directory using FTP client and 'Index.php' is the home page I created for this lab.

Task 5
Once you have confirmed that your webpage is available online, you are ready to hand in your lab.
Create a compressed file (**Lab5.zip**) which will contain the following PHP files:
- Header.php
- Footer.php
- Menu.php
- index.php

Create a word document (**Lab5.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 5, prepared in Task 3

To hand in your lab go to Brightspace and navigate to Course Content → Labs and click on 'Lab 5 - Preparation and Introduction to PHP' link.

Upload the word document (Lab5.doc) and the compressed file (Lab5.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 Lab5.zip or Lab5.doc on Brightspace, you will receive a ZERO for the lab assignment.