Lab 5 – Preparation and Introduction to PHP

Purpose

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

Due Date

- This lab must be handed in:
  Friday June 18, 2021 – 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)
- EasyPHP Dev server

Summary of Tasks

1. Install Eclipse
2. Install EasyPHP
3. Create your first PHP web site
4. Display your website on 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:
   https://www.eclipse.org/downloads/packages/release/2020-06/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.
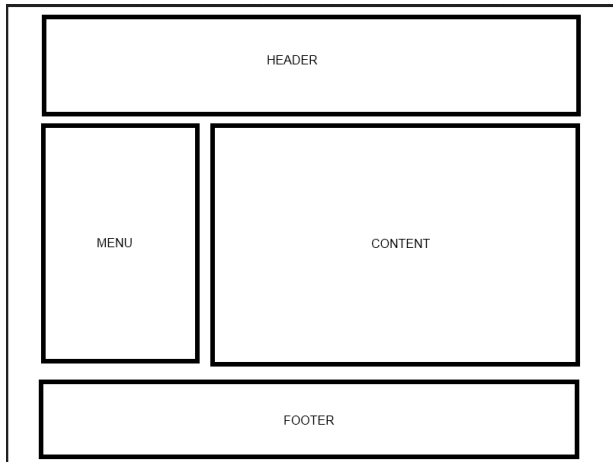
EasyPHP:

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' examples provided on Brightspace (under: Course Content → Extra Materials). Using the knowledge gained in these examples, 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

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 2, Lab 3 and Lab 4.

index.php

index.php must include Header.php, Footer.php, and Menu.php (Use the PHP statement 'include' to add your Header, Menu and Footer into index.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

Create Lab 5 submission folder '**Lab5**' and copy **index.php, Header.php**, **Footer.php**, **Menu.php** and any other required files **(**e.g**. css file)** into this folder**.**

Task 4

Upload your website for Lab 5 into a Web Hosting Server by uploading '**Lab5**' 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 5

View your website for Lab 5 using a web browser. Open a web browser and navigate to the following web address:

http://your_web-hosting_domain_name/Lab5/<filename>

For example, the sample URL for Lab 5 on an arbitrary web hosting domain is:

rejaulc.sgedu.site/Lab5/index.php

where '*rejaulc.sgedu.site*' is the name of an arbitrary web hosting domain, '*Lab5*' is the submission folder for Lab 5, '*index.php*' is the homepage of Lab 5.

Task 6

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

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.