Web Development 1 – Lab Session 1

The purpose of today’s lab session is to get you started by having a look at the HTML code for a web page and familiarising you with the basic tools that you will be using during this course.

**Exercise 1-A:**

1. Open a web browser (such as Internet Explorer or Firefox) and type in the following URL (web address) into the address bar of the browser:

<http://www.learningwebdesign.com/materials/index.html>

Make sure you type all the letters, colon “:” and forward slashes “/” correctly. This page lists examples from the course text book.

1. Now click the “back to home page” link (it’s green…). The web browser should now show you a different page, and in the address bar the URL will now read:

<http://www.learningwebdesign.com/index.html>

Notice that the directory (folder) “materials” is no longer part of the URL (web address).

1. Now delete the “index.html” from the end of the address bar (and press RETURN to make the browser load the new page) so the URL reads just:

<http://www.learningwebdesign.com>

The same page is shown, even though the “index.html” is not part of the URL. You’ll learn why in a lecture.

1. Finally, view the source of the web page (e.g. right click mouse and choose “View [Page] Source”). The text you see (<html <head> <p> <li> etc.) is written in the HTML language – the language you’ll be learning in this (and several other) modules. Don’t worry – we’ll be starting with much simple web pages initially.

**Exercise 1-B:**

1. First create a folder on your X:drive (or USB stick) for the module: web\_dev\_1
2. Next create a folder on your X:drive (or USB stick) for the module: lab01

**Exercise 1-C:**

Follow these steps to type in and view a simple webpage:

1. Start the *TextPad* program (from *Program Files*)
2. Save your new (empty) document, naming it matt.html
   * save the file into your **"lab01"** folder
   * When you are saving it set the *Save As Type* option to be *All Files (\*.\*)*   
     This stops Textpad from guessing your file type and adding “.txt” at the end …
3. Now type the following HTML code into *TextPad* (saving every minute or two – just in case)

<!DOCTYPE html>

<html lang=”en”>

<head>

<meta charset="utf-8">

<title>Matt's web page</title>

</head>

<body>

<img src="matt.jpg" alt="picture of Matt">

<h1>Matt Smith</h1>

<p>

Matt is senior lecturer at ITB.

He is one of the Web Dev 1 lecturers this year.

</p>

<hr>

<footer>Copyright 2012</footer>

</body>

</html>

**Exercise 1-D:**

Now open matt.html in your browser in one of the following ways: (1) click the blue/green ‘world’ icon in Textpad (web preview); (2) in the Windows file explorer, just double click the file; (3) in your browser choose menu File->Open;

You should see something like the HTML web page shown in the week 1 lecture.

**Exercise 1-E:**

There was one problem though wasn’t there? The image did not appear …. We’ll fix this in this exercise.

1. Go to the Moodle page for the course and download the file matt.jpg.
2. Place this file into your lab01 folder.
3. Use the *Refresh* button on *Internet Explorer* to reload the matt.html web page.

The image should appear correctly now.

**Exercise 1-F:**

The next thing to do is add a style sheet for some simple presentation on the page.

First you create a file containing style rules, then add a statement in your HTML file to ask the browser to load and follow the styles rules from the stylesheet file.

1. In Textpad create a new, empty text file, and type in the following CSS code
2. Then save this file as style.css into folder **lab01**

h1 {

color:green;

}

p {

font-size: small;

font-family: sans-serif;

}

img {

float: right;

margin-left: 12px;

}

Now add a statement in your HTML file to tell the broswer to read in and apply your style rules:

1. In *TextPad* view your matt.html file.
2. After the closing title tag ( </title> ) make a new line and type:

<style> @import "style.css"; </style>

so the first few lines of your HTML file should now look as follows:

<!DOCTYPE html>

<html lang=”en”>

<head>

<meta charset="utf-8">

<title>Matt's web page</title>

<style> @import "style.css"; </style>

</head>

1. Save the file and view again in the browser.

You should see something like HTML with CSS web page shown in the week 1 lecture.

**Exercise 1-G:**

Change the colour scheme so that the heading is some other colour other than green.

HINT: You need to edit and save your **style.css** file in Textpad

**Exercise 1-H:**

It’s not much use you having a web page about someone else is it? Do the following to make a web page about YOU:

1. Make a copy of the file and give it your name (i.e. if your name is Fred, then copy *matt.html* and rename the copied file *fred.html*).
2. In *TextPad* edit the page so that all the information about Matt (e.g. title, heading and text) is replaced with information about YOU.

**Exercise 1-I:**

It’s still not great that there is a picture of Matt there. We are going to grab a picture of someone else from the Internet, pretend it is you, and use it for the webpage (if you happen to have a digital picture of yourself handy instead then all the better).

1. Pick an image from <http://www.boblasky.com/headshots.html>
2. Save the image to your lab01 folder. Right click and *Save Picture As...*
3. Name the file *yourfirstname*.jpg, e.g. if your name is Brian call it brian.jpg.
4. Edit the HTML code for the <img> element, so it loads up brian.jpg   
   (or whatever your file is called) rather than matt.jpg

Well Done

You have created a webpage and stylesheet You have begun your journey as a web developer!!!!!