**Day 2 – Web Server (Software)**

**Warm-Up Activity**

Creating a simple Web Page

1. Use the Windows File Explorer tool to open your student id folder on the G drive
2. Right click and select New->Text Document
3. Name the file “mywebpage.txt”
4. Edit and save the file with the following contents

<h1>Hello Everybody</h1>

<p>This is a basic <b>HTML</b> web page</p>

Opening your web page

1. Open your web browser (e.g. Chrome)
2. Type “file://G:/” for the URL. What do you see?
3. Click on your “mywebpage.txt” to open it. What do you see?
4. Use File Explorer to rename your file to “mywebpage.html”
5. Refresh the “file://G:/” URL
6. Click on your “mywebpage.html” to open it. What do you see?

**Presentation Notes: Web Server Software**

1. What is a HTML and what does it stand for?

A Web Page is written in HTML

* HTML stands for Hyper-Text Markup Language
* It is simple text with special tags in angle <> brackets
* Most tags control how the page is formatted
* Additional tags allow for graphics and dynamic content

1. What does a basic web page contain?

* A Basic Web Page
  + Contains ***static*** content (i.e. text content that does not change when the page is reloaded.)
  + The page can contain advanced graphics in addition to text.

1. How does a dynamic web page differ from a basic web page?

* Dynamic Web Pages
  + Are basic web pages that also include ***dynamic*** content that may change while the page is loaded or when it is reloaded.
  + May also include program scripts using JSP, Java, Python, etc.
  + Dynamic pages include links to include data from other types of web servers (e.g. Streaming Servers, Database Servers, etc.)

1. What is a Web Server?  
   A Web Server is an Application Program. You could run this program on any PC. Usually runs on more reliable Web Server Hardware.
2. What are some functions of a Web Server?

The function of a Web Server is…

* To respond to HTTP or HTTPS internet requests from user clients (i.e. web browsers)
* To provide service for basic web pages

1. What are some common types of Web Servers?

Most common web server programs include:

Apache – Unix / Linux, IIS – Microsoft.

1. What is a HTTP and what does it stand for?

Starting a URL with http:// indicates that..

***HTTP*** stands for Hyper-Text Transfer Protocol

Your browser (client) wants to connect to a web server

Your browser is expecting to receive HTML content

1. What is the difference between HTTPS and HTTP?

Starting a URL with https:// indicates that..

The same thing as http with the addition that…

Information sent and received is in ***encrypted*** format

***https*** provides a ***basic level*** of security for passwords and other private information

1. What are some other common URL protocols?

* Other URL protocols include…
  + file:// to access files on a local computer
  + ftp:// to access files or a remote serer
  + telnet:// to open a window on a remote serer