Project 1 – HTML Page Layout

Overview

This project is to create a basic website using HTML and to deploy it on a web server. Creating the website will require HTML and deploying your website will require SSH, FTP, and various other tools. This is also a good opportunity to set up an editor and begin to learn how it works. Finally, you will also create basic landing page for your website and future projects.

Requirements

Your task is to create a website using separate HTML files. A web page is a single page, and a web site is a collection of pages which link to each other. The site should at least five HTML files (meaning five different pages) and one CSS file. Your website should meet the following criteria:

HTML Criteria

- Has valid HTML5 doctype.
- Has a correct basic page layout, including <html>, <head>, and <body> tags.
- All pages should have a unique title.
- All pages should have a link to them somewhere using an <a> tag. Meaning, I should be able to navigate your website just by clicking on links.
- At least one use of each of the following HTML tags: <h1>, <h2>, <p>, <a>, <ul>, <li>,
- Include at least one image using the <img> tag.
- At least one table using the <table> tag (and other necessary tags).
- At least one Youtube video embed.
- A comment block at the top of every page with name, date, course, and project description.
- All pages must pass an HTML5 validator (https://validator.w3.org/).
- You should have one CSS file to add some styling to your pages.

Deployment Criteria

- You must upload your file to the CS web server in a 'p1' directory.
- You should create a small landing page which has a link to your project 1 (and will eventually have links to future projects).
- Your site should be reachable at `http://thor.quincy.edu/~username/` and your project 1 should be reachable at `http://thor.quincy.edu/~username/p1/`.

Website Content

Your website may be about any appropriate topic. You won't be graded on content, but your website should be coherent and make *some* sense. Some suggested topics are TV shows, movies, music, video games, books, food, cars, flowers, a hobby, or any computer science related topic.

Deploying your website

The CS web server is "thor". You can remote in to this server using SSH while on the campus network. You should use your email address as your username and the same password as your account. To deploy your website, you must create a directory "public_html" in your home directory, and you must set the directory to executable by others (using chmod). You should then be able to put your files in there and visit them using the URL above under Deployment Criteria.

Useful Tools

Learning how to use your tools well is a very important part of programming. You will be using these tools for the rest of the semester (and possibly beyond), so it is worth it to spend the time up front to learn them. Below are some free tools I recommend getting familiar with for this course:

- Command line SSH client – Built into all modern OSes (Use Putty if using old Windows).
- Filezilla – FTP client for transferring files to/from the server.
- Visual Studio Code – My recommended editor for programming.
- Notepad++ - Good general purpose text editor. Like Notepad but better in every way.
- XAMPP – Local PHP/Apache environment
- Browser development tools (Chrome or Firefox).

Grading

The assignment is worth <u>150 points</u>. The grading is broken down in the following categories:

At least five linked HTML pages	40
All HTML/CSS requirements met	50
Properly deployed to web server	30
Created a 'Landing Page' with a link to project 1	10
Comment block at the top of every file	10
Overall cleanliness of code	10
Total	**150**

Submitting your work

Your work must be submitted as an archive (.zip, .7z, .rar) on Moodle. This archive should include your html files and any other necessary files for your website. Late submissions are allowed up to a week after the due date, but have an automatic 20% penalty.

<u>This project is due Wednesday, September 25th at 11:59pm.</u>