Front End Web Development

6/29/2022

Updates

- Microsoft Teams
  - You should now be able to see the lecture recordings in the Files section
- Forms
  - Media Release and Learning Contract
  - Have done by end of class if possible
  - We will be checking next week for any that we have not received

Updates ctd.

- Email
  - If you need to email me about any class matter, please include or CC Savannah and Mica as well so that we are all in the loop

Introduction to HTML

What is HTML?

- HTML stands for Hyper Text Markup Language
  - a markup language is a system for annotating a document in a way that is syntactically distinguishable from the text, meaning when the document is processed for display, the markup language is not shown, and is only used to format the text

- HTML is the standard markup language for Web pages
  - HTML5 is the fifth and last major HTML version

- HTML elements are the building blocks of HTML pages

- HTML elements are represented by <> tags
  - All tags must have an opening tag <> and a closing tag </>

Basic HTML Tags

- The <!DOCTYPE html> declaration defines this document to be HTML5
- The <html> element is the root element of an HTML page
- The <meta> element contains meta information about the document
- The charset attribute defines the character set used in the document
  - The charset attribute specifies the character encoding for the HTML document.
- The <title> element specifies a title for the document
- The <body> element contains the visible page content
- The <h1> element defines a large heading
- The <p> element defines a paragraph

HTML Files

- ## HTML Files have two main sections
    - ### Head and Body

```
index.html
1    <!DOCTYPE html>
2    <html>
3      <head>
4        <meta charset="utf-8">
5        <meta name="viewport" content="width=device-width">
6        <title></title>
7      </head>
8      <body>
9
10     </body>
11   </html>
```

Exercise

- Create your Opening sections in your VS Code file

Body Section

- The body section of our HTML File is where all of the content we want displayed on our webpage will go
- Paragraph tags are written as <p>
  - Paragraph tags contain blocks of text
- Heading Tags are written as <h1>
  - There are 6 heading tags each one smaller than the next
  - <h1></h1>-<h6></h6>

Exercise

- Add 4 paragraph tags with text to your VS code file
- Add a heading for each paragraph tag

List Tags

- We can create Lists in HTML
- There are two types of lists we can create in HTML
  - Ordered list by using tags
  - Ordered lists will create a list that is numbered
  - Unordered lists using tags
  - Unordered lists will create a list that is bulleted
- To add items to our lists we need to use list item tags
  -

Exercise

- Add both an ordered list and an unordered list to your VS code file
- Add 4 list items to each list

HTML Links

- HTML links are defined with the <a> tag:

```
<a href="https://www.w3schools.com">This is a link</a>
```

Exercise

- Add 5 links to your page

Image Tags

- The <img> tag is used to embed an image in an HTML page.
- Images are not technically inserted into a web page; images are linked to web pages. The <img> tag creates a holding space for the referenced image.
- The <img> tag has two required attributes:
  - src - Specifies the path to the image
  - alt - Specifies an alternate text for the image, if the image for some reason cannot be displayed
- There are two ways to add an image to your HTML
  - From your local file system
  - From an online link
- Image tags are written out using the following
  - <img src="" alt="">

Exercise

- Add two images to your page using a local image file
- Add two images to your page using a link from online

Assignment

- Create 5 Headings
- Add 2 paragraphs of text to each Heading
- Add one image to each Heading
- Add 2 ordered lists
- Add 2 unordered lists
- Add 4 links