

Assignment I – Prepare yourself for WEB

Instructions

In this assignment, you will design and write a small website with a topic of your own choice consisting of webpages using Hypertext Markup Language (HTML5) code. You are to develop a website, which provides information in a clear way and links to other pages. You are to demonstrate your understanding of the correct use of HTML tags and CSS.

Your topic is free for you to choose (a hobby? Small business?).

Part 1

Before you start to code you are required to develop site map and wireframe of your web page.

Here is a simple example of a sitemap of the website consisting 4 pages (home page, services, ask the vet, contact).



You can learn what exactly the wireframe is from here: <https://www.smartdraw.com/website-wireframe/>

Part 2

Task 1: The website Folder

Create a folder on your hard drive. Name of the folder should be name of your project. Do not use white space on folder name.

Task 2: The external style sheets.

You will use a text editor(Atom, Vs code, sublime text) to create an external style sheet named style.css. Code the CSS to configure the following:

- Global styles for the document (use the body element selector) with background color #FFFFFF; text color #003366; and Verdana, Arial, or any sans-serif font.
- Styles for the header element selector that configure background color #003366, text color #AEC3E3, and a serif font such as Georgia or Times New Roman.
- Styles for the h1 element selector that configure 200% line height and set the text-indent property to 1em.
- Styles for the nav element selector that display text in bold
- Styles for the footer element selector with a small font size (.70em) and italic text.

Save the file as style.css. Check your syntax with the CSS validator (<http://jigsaw.w3.org/css-validator>). Correct and retest if necessary.

Task 3: The Home Page.

Launch a text editor and open the index.html file. You will modify this file to apply styles from the style.css external style sheet as follows:

- Add a <link> element to associate the web page with the style.css external style sheet file.
- Configure the navigation area. Use the CSS to configure the bold font style on navigation.
- Configure the content area. Use CSS to configure footer, content font size, image, color etc.
- Save the index.html file, and test in a browser.

Task 4: Other Pages

Create other html pages according to your needs. You must use at least one tag and use at least three images on each page.

Task 5: Center Page Layout with CSS.

- Modify style.css, index.html, and other pages to configure page content that is centered with 80% width with a light grey background color.
- Launch a text editor and open the style.css file.
- Add a style rule for an id named wrapper with width set to 80%, margin-right set to auto, margin-left set to auto, and background color set to #FOFOFO.
- Launch a text editor and open the index.html file. Add the HTML code to configure a div element assigned to the id wrapper that "wraps", or contains, the code within the body section.

Save and test your index.html page in a browser and you will notice that the page content is now centered within the browser viewport.

To apply the above CSS instructions is not mandatory. You can use your own CSS to make your web page beautiful.

Experiment with modifying the style.css file. Change the page background color, the font family, and so on. Test your pages in a browser. Isn't amazing how a change in a single file can affect multiple files when external style sheets are used?

Part 3

Instructions In this section you will complete the design of your small website, with a topic of your own choice, consisting of webpages using Hypertext Markup Language (HTML) code and Cascading Style Sheets (CSS). Your site should provide information in a clear way and links to other pages and websites. You are to include appropriate images, lists and tables on your pages and CSS functionality. In this stage, you are to show your understanding of good web design principles, such as clear hierarchy, indentation, commenting, easy navigation, and clear presentation of information.

Requirements

Starting from your previous webpage (at this stage, you should have already developed a main page named index.html with all the basic elements and CSS styling), you need to complete a minimum of four different subpages. These can be on the same hierarchy level or on different levels. Remember that one of the points you will be marked on is good web design and a clear hierarchy! Each page needs to have a minimum of 80 meaningful words on them.

Make sure that the user can get to all your pages via hyperlinks as well as return to previous pages via hyperlinks (rather than having to use the back button of the web browser). Also include at least two links (anchor elements) to external websites, e.g. <https://www.oxfordcollege.edu.np>.

Part 4: Submission

Zip (compress) the entire project folder and submit it via Teams. Please note that you must first upload your ZIP file and then click on the Submit button. Your submission folder must include:

- at least four html pages,
- CSS files,
- pictures,
- screenshots with the validation results (CSS and HTML),
- A word document with the site map, wireframe and list of references.