

COMP3322A Modern Technologies on World Wide Web

Assignment One

Total 8 points

<https://i.cs.hku.hk/~atctam/c3322/comp3412/>

Overview:

In this assignment, you are going to restructure and redesign four pages of an existing website which aims to improve the Web accessibility, responsive features, styling and appearances of those webpages. In the assignment, you will mainly implement the client techniques, **HTML & CSS (except specifically stated in the document)** in order to fulfill its requirements.

Objectives:

1. A learning activity to support ILO 1 and ILO 2.
2. To get solid experience in using client-side techniques, **HTML & CSS (except specifically stated in the document)** to design and enhance the Web accessibility, responsive features, styling and appearances of existing webpages.

Specification:

The assignment consists of two parts: restructuring HTML codes (Part I) and implementing CSS for styling and responsive design (Part II) for four pages in an existing website.

You are given a zip file (which can be downloaded from Moodle) and are required to complete the following tasks for the **four** pages: index.html, info.html, professionalism.html and contact.html.

Part I: Restructuring HTML codes

The HTML codes in the given webpages may contain errors and many obsolete HTML elements (Remark: You can find out those errors and obsolete elements by using the Markup Validation Service, an example of such service: <https://validator.w3.org/>). You are required to **clean the HTML codes so that it can pass the Markup Validation Service with no errors or warnings** (1 point). In addition, you are also expected to restructure the HTML code by **using appropriate semantic HTML elements** in order to improve the Web accessibility (1 point). You may refer to https://www.w3schools.com/html/html5_semantic_elements.asp as a reference to know more about semantic HTML elements.

Besides, you are expected to include the same header and navigation menu in all four pages

(You can follow past practice on using JavaScript to add the header and navigation menu to the pages) (0.5 point), as well as designing a floating menu for navigating to different

fragment of the page in the info.html page, by using CSS (1 point). You may refer to

https://www.quackit.com/html/html_editors/scratchpad/preview.cfm?example=/css/codes/css

floating menu as a reference to know more about floating menu

Part II: Implementing CSS for styling and responsive design

You are required to use CSS to fulfill the following requirements:

- Implement responsive web styling to redesign the layout of the four pages so that the contents of the pages can be displayed nicely in different devices (desktops, laptops, tablets, and phones) (2.5 point).
- Include appropriate CSS styling to make the pages look consistent and nice in one single stylesheet (2 point).

Submission:

Please finish this assignment before 7th October, 2020 Wednesday 23:59. Upload all files to the i7.cs.hku.hk server and arrange the files to recreate the Website in a preset directory under the course account (c3322a) for this assignment, i.e.,

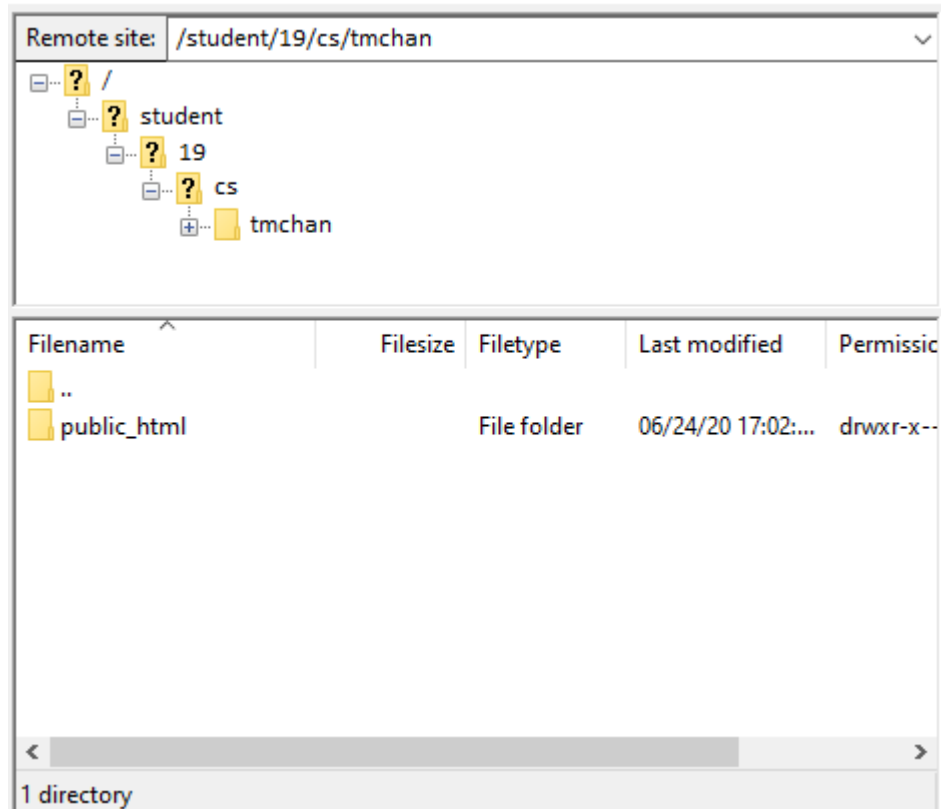
/course/home/c3322a/public_html/assign1/[your_CSID]. We have created a folder for each student under the path for assign1: /course/home/c3322a/public_html/assign1/

For example, a student with the CS account username - tmchan, would have a

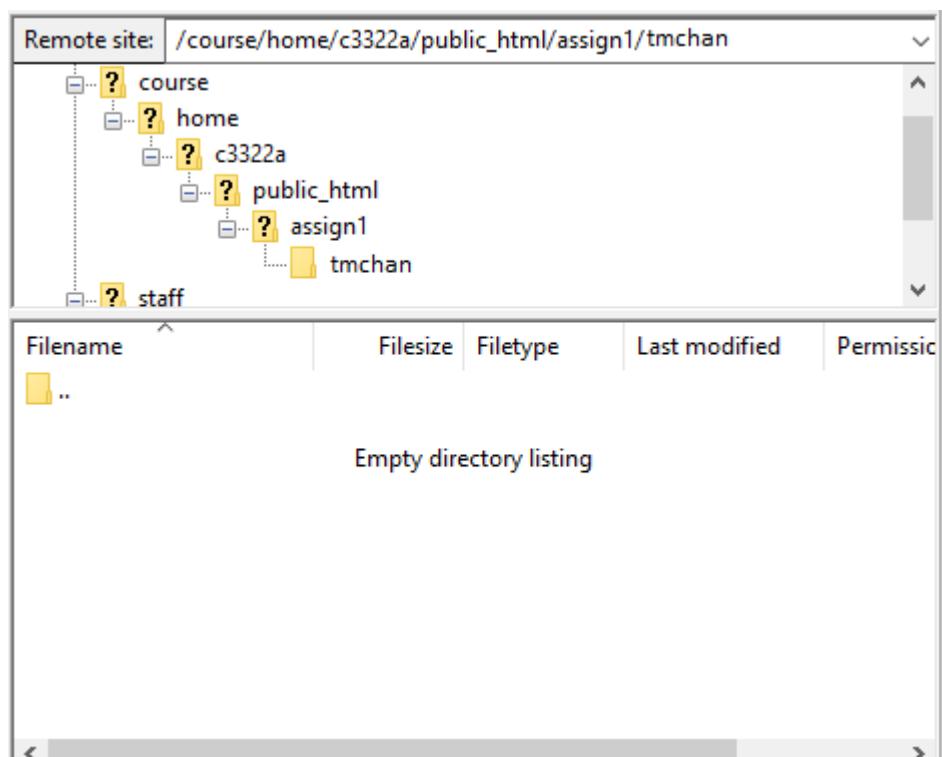
directory: /course/home/c3322a/public_html/assign1/tmchan/

To upload the files to your preset directory, please follow below steps:

1. Connect to HKUVPN.
2. Start FileZilla, connect to i7.cs.hku.hk, and log on using your CS account. For example, here is a screen capture after you successfully logged on.



- Enter the path to the “Remote site:” field. Be remembered to replace the example tmchan to your CS account username.



- Then, drag all the files to this directory.

5. Browse and test your website at:

[https://i7.cs.hku.hk/~c3322a/assign1/\[your_CSID\]/index.html](https://i7.cs.hku.hk/~c3322a/assign1/[your_CSID]/index.html)

We will go to your individual webpage to check your assignment.

Grading Policy:

Please note that Part I will be graded by the tutors while Part II will be graded by both the tutors and your peers. Each student will be randomly assigned to grade the other 10 students' work on Part II. The final mark of Part II will be obtained by averaging out the marks given by the tutors and your peers. Please note that if you do not grade your assigned peer's work (except for the case that your peer does not hand in his/her assignment), you can only receive half of the total mark in Part II.

Part I	<ul style="list-style-type: none">● The required four pages successfully pass the Markup Validation Service with no errors or warnings (1 point) ✓● Appropriate use of semantic HTML elements to improve the Web accessibility of the required four pages (1 point) ✓● The required four pages have the same header and navigation menu (0.5 point) ✓● Use of floating menu for navigating to different fragment in the info.html page (1 point) ✓
Part II	<ul style="list-style-type: none">● Use of responsive web styling to redesign the layout of the required four pages (2.5 point) ✓● Use of appropriate CSS styling to make the required four pages look consistent and nice in one single stylesheet (2 point) ✓

Plagiarism:

Plagiarism is a very serious academic offence. Students should understand what constitutes plagiarism, the consequences of committing an offence of plagiarism, and how to avoid it.

Please note that we may request you to explain to us how your program is functioning as well as we may also make use of software tools to detect software plagiarism.