

# COMP3322 Modern Technologies on World Wide Web

## Assignment One

Total 14 points

Deadline: 23:59 October 3, 2023

### Overview

You are going to practice CSS styling to adorn four HTML pages of an existing website. The design should support responsive web design with appropriate styling. You **CAN ONLY USE** pure CSS for this assignment. You **CANNOT USE** any front-end libraries such as Bootstrap or JavaScript for the assignment.

### Objectives

1. A learning activity to support ILO 1 and ILO 2.
2. To get solid experience in using CSS to support responsive features, appropriate styling, and appearances.

### Requirements

Download the file Webpages.zip from the course's Moodle site. The file contains 5 files:

Webpages.zip

```
├── contact.html
├── hku-cs-logo.png
├── index.html
├── information.html
└── professionalism.html
```

All four HTML files have the same HEAD element block and the same/similar structure for the BODY element. Inside the BODY element, there is a common HEADER element block and an ARTICLE element block that contains the main content for the HTML file. For the image file (hku-cs-logo.png), you will add it to the HEADER block when styling the HEADER block.

For this assignment, you **ARE NOT ALLOWED** to make changes to these four files. Place all CSS rules in an external CSS file and name it **ass1.css**. All four HTML files will load this ass1.css upon rendering on a browser.

**You can assume the browser uses its standard display setting for each element except the specific settings specified in this assignment.**

Here are the required tasks and expected results.

**Desktop Look** - Render the site on a desktop browser with a window width larger than 1000 px. Please refer to the file samples.zip for the example looks of the four pages.

- 1) Adopt a common setting for all BODY elements of the four pages.
  - Set the width of the BODY element to 80% of the window width or at least 1000 px.
  - Set the top and bottom margins of the BODY element with 0.5 rem.
  - Center the BODY element in the middle of the window
- 2) Adopt a common setting for all HEADER elements of the four pages.

- Set the font family to Verdana.
  - Pick a background color of your choice but should be consistent for the whole site. Our samples use the background color #0099ff.
  - Set an appropriate font color for the H1 element (according to your background color).
  - Add padding to the left and right with 1 rem.
  - Place the H1 element on the left and the NAV element on the right; the H1 element should not be wider than 50% of the HEADER block. **flex**
  - Align the four navigation links on two rows; for each column, align the content to the right. **grid**
  - Set an appropriate font color for the links **for all states**. Disable the default “underline” setting except when the mouse is over a link. When the mouse pointer is over the link, display two red lines over the link element – one above and one below the element.
  - Add the department’s logo (hku-cs-logo.png) to the top right corner of the HEADER block; set the width of the image to 200 px and scale the height appropriately.
- 3) Set the font family to Arial for all ARTICLE elements of the four pages.
- 4) Adopt a common setting for all TABLE elements of the four pages except for specific features.
- Set the border to 1 px in width and without gaps between cells.
  - Set the padding (all four sides) to 0.5 rem.
  - Set the header row with the same background color as used in the HEADER block.
  - Set the header font size to 1.2 em, align the headers to the left, and set the font color of the header row accordingly.
  - Set the first column of the table with a width of 100 px.
- Specific features of individual HTML files:**
- 5) For the contact.html file, add a gap of 2 rem between the two tables.
- 6) For the professionalism.html file
- Set the first column of the table with a width of 150 px (i.e., override the default common setting).
  - Set the third column of the table with a width of 80 px and align the data content in the middle of the column.
  - Set the paragraphs’ titles (“Objective” and “Outcomes”) in bold font.
- 7) For the index.html file
- Align the dates to the top of the cells.
- 8) For the information file
- Move the NAV element block (of the article block) to the bottom of the page
    - i) Set the background color with the same background color as used in the HEADER block.
    - ii) Stick the NAV block to the bottom with a gap of 10 px between the bottom edge of the window.
    - iii) Align the links in rows with the width of each link element set to at most 300 px.
    - iv) Add some gaps between the links (i.e., make them not so packed).
    - v) Set an appropriate font color for the links **for all states**.
    - vi) Must be sure that the NAV element does not overlap with and conceal the last SECTION block.

completed Consent Form to the Department's Internship Coordinator within the first two weeks of the placements.

- Download Consent Form [ [Word](#) | [PDF](#) ]

On the last week of your internship, present the following "Feedback Form" to your supervisor. Invite them to return the completed form within two weeks after the internship.

- [Download Employer's Feedback Form](#)

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- For each SECTION element block
  - Add a border of width 0.5 px.
  - Set a light background color (e.g., #f9f9fb).
  - Add padding to the left and right with 1 rem;
  - Set the width to 95% of the container block.
  - Add a small gap between SECTION blocks.
  - Use the eclipse round corner setting and apply to all four corners.
  - Align all even number SECTION blocks to the right.

graduation. More importantly, you can gain first-hand experience of software development as it is actually practised, and of the effect of real-world constraints such as schedule, budget and available technology. This adds an important dimension to your engineering education. These are just a few of the benefits reported by students. In our experience, students value these weeks spent working in their field of expertise.

#### Who must take COMP3410 / COMP3412?

All students pursuing the BEng(CompSc) degree must pass COMP3410 / COMP3412 as a requirement for graduation. This is true for both the single degree programme and the BBA(IS)/BEng(CS) double degree programme.

#### When must you take COMP3410 / COMP3412?

To gain maximum benefit from the Internship, you must already possess a strong foundation of CS knowledge. Consequently, you may take COMP3410 / COMP3412 only after completing the major part of your studies. Students in the 3-year / 4-year programme may not take the course until they have completed their second / third year of studies. Students in the double degree BBA(IS)/BEng(CS) programme must wait until they have completed their BBA(IS) programme.

#### How do you satisfy the Internship requirement?

The Internship requirement may be satisfied in one of two ways: either by completing a summer industrial internship, or by joining the Integrated Study-Work Programme and taking a full-year sandwich internship.

##### Summer Industrial Internships

This is the most common way in which students satisfy the requirement. If you choose this path you will spend 4 weeks to 3 months in full-time employment during the summer break. Most students take internships located in or around Hong Kong. This, however, is not a requirement and we encourage you to apply for internships outside of the region.

##### Sandwich (Study-Work) Internships

You may use a relevant part of your 12-14 month internship to satisfy the Internship requirement. You still must deliver an Internship report covering that specific period (see below) and you will be assessed in the same way as summer industrial interns. You can consult [this document](#) for more information on the IWSP.

#### What criteria must a job satisfy to qualify for COMP3410 / COMP3412?

**Mobile Look** - Render the site on a mobile browser with a viewport width smaller than 500 px. Please refer to the file samples.zip for the sample looks of the four pages.

- For all BODY elements of the four pages.
  - Set the width of the BODY element to 100% of the screen width.
- For all ARTICLE elements of the four pages.
  - Add padding of 10 px width to the left and right.
- For all HEADER elements of the four pages.
  - Set the font size of the H1 element to 1.5 rem, use the full width of the window, and align the content in the center.
  - Remove the department's logo.

- Align the NAV element in the center.
- Organize the links in two rows and align them in the center.

12) For the information.html file

- **Adjust the NAV element block**
  - Stick to the bottom of the viewport without any gap.
  - Rearrange all links and place each link on an individual row.
  - Reduce the font size to 0.9 em.
  - Adjust the spaces between link blocks appropriately.
- Align all SECTION blocks to the full width of their parent container.

13) For the index.html file

- Adjust the layout of the TABLE element with a mobile look suitable for displaying on any mobile device.

1. can not use :has(p);  
2. contacts table does not fully contain  
“coordinator” header

## Resources

You are provided with the following file.

- `Webpages.zip` – this file contains the four HTML files and the CS department’s logo image file.
- `Samples.zip` – this file contains eleven image files that are the screen captures of the desktop and mobile layouts of the sample implementation. We provide these image files for you as references.

## Testing platform

We should use Chrome and Firefox to test the webpages with two screen widths:  $\leq 500$  px and  $\geq 800$  px.

## Submission

Name the CSS file to `ass1.css`. You should put all CSS style rules for these four webpages in this file. Please finish this assignment before **October 3 Tuesday 23:59**. Submit the file `ass1.css` to the course’s Moodle page.

Add your name and student number as comment at the top of the file (for the identification purpose).

## Grading Policy

Points	Criteria
1.0	[Desktop layout] Adopt a common theme & setting for all BODY elements of the four pages. (Paragraph 1)
2.5	[Desktop layout] Adopt a common theme & setting for all HEADER elements of the four pages. (Paragraph 2)
0.25	[Desktop layout] Set the font family to Arial for all ARTICLE elements of the four pages. (Paragraph 3)
1.0	[Desktop layout] Adopt a common setting for all TABLE elements of the four pages except for specific features. (Paragraph 4)
0.25	[Desktop layout] For the contact.html page, add a gap of 2 rem between the two tables. (Paragraph 5)
1	[Desktop layout] Features for the professionalism.html page. (Paragraph 6)
0.25	[Desktop layout] Features for the index.html page. (Paragraph 7)
2.5	[Desktop layout] Features for the information page. (Paragraph 8)
0.25	[Mobile layout] For all BODY elements of the four pages. (Paragraph 9)
0.25	[Mobile layout] For all ARTICLE elements of the four pages. (Paragraph 10)

1	[Mobile layout] For all HEADER elements of the four pages. (Paragraph 11)
0.25	[Mobile layout] Features for the information.html page. (Paragraph 12)
2.5	[Mobile layout] Features for the index.html page. (Paragraph 13)
-50%	If make changes to any of the four html files.

## 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.***