

# COMP3322 Modern Technologies on World Wide Web

## Assignment One

Total 9 points

Deadline: 17:00 February 24, 2023

### Overview

You are going to design a webpage for presenting the relationship of the Programme Learning Outcomes to HKU Educational Aims for an undergrad programme. The design should be a webpage with responsive design and appropriate styling. You **CAN ONLY USE** pure HTML & CSS to implement this webpage of the assignment. You **CANNOT USE** any front-end libraries such as Bootstrap **nor** JavaScript for the assignment.

### Objectives

1. A learning activity to support ILO 1 and ILO 2.
2. To get solid experience in using HTML & CSS to construct a webpage with a large table and support responsive features, appropriate styling, and appearances.

### Requirements

Below is the table which shows the relationship of the PLO and HKU Aims for the BASc(FinTech) programme. You can get a copy of this table in MS Word format from the Moodle site.

		HKU Educational Aims					
		Pursuit of academic / professional excellence, critical intellectual enquiry and life-long learning	Tackling novel situations and ill-defined problems	Critical self-reflection, greater understanding of others, and upholding personal and professional ethics	Intercultural understanding and global citizenship	Communication and collaboration	Leadership and advocacy for the improvement of the human condition
Programme Learning Outcomes	PLO a	✓					
	PLO b	✓					
	PLO c	✓	✓				
	PLO d	✓					✓
	PLO e					✓	✓
	PLO f			✓	✓		
	PLO g				✓	✓	
	PLO h			✓	✓		✓
	PLO i	✓					
	PLO j	✓	✓				

For this assignment, your design should be able to present the above information to users who access the webpage by a web browser running in any form of mobile devices – from small smartphone to a 4K screen.

You can use a table element to structure this PLO-Aim relationship or you can use any suitable HTML element as well. When the information is being presented on a wide screen (i.e.,  $\geq 1000\text{px}$ ), the design **should follow** the above presentation format. A **required feature** is the alignment of the “Programming Learning Outcomes” header, it must be aligned vertically and run from bottom to top. **This requirement is applied to the wide-screen layout; we can relax it for the mobile layout.** Here are two sample implementations, one uses the table element and another uses the div element to organize the content.

**Using table element to organize the content**

		HKU Educational Aims					
		Pursuit of academic / professional excellence, critical intellectual enquiry and life-long learning	Tackling novel situations and ill-defined problems	Critical self-reflection, greater understanding of others, and upholding personal and professional ethics	Intercultural understanding and global citizenship	Communication and collaboration	Leadership and advocacy for the improvement of the human condition
Programme Learning Outcomes	PLO a	✓					
	PLO b	✓					
	PLO c	✓	✓				
	PLO d	✓					✓
	PLO e					✓	✓
	PLO f			✓	✓		
	PLO g				✓	✓	
	PLO h			✓	✓		✓
	PLO i	✓					
	PLO j	✓	✓				


Using <div> elements to organize the content

		HKU Educational Aims					
		Pursuit of academic / professional excellence, critical intellectual enquiry and life-long learning	Tackling novel situations and ill-defined problems	Critical self-reflection, greater understanding of others, and upholding personal and professional ethics	Intercultural understanding and global citizenship	Communication and collaboration	Leadership and advocacy for the improvement of the human condition
Programme Learning Outcomes	PLO a	✓					
	PLO b	✓					
	PLO c	✓	✓				
	PLO d	✓					✓
	PLO e					✓	✓
	PLO f			✓	✓		
	PLO g				✓	✓	
	PLO h			✓	✓		✓
	PLO i	✓					
	PLO j	✓	✓				

Presenting tables on desktop screens is easy but difficult when viewing them on mobile screens. Usually, a table expands horizontally and can't fit in such a confined space. There are various techniques available to handle the situation; however, some techniques require the assistance of JavaScript. Here is the technique used by the department. This technique, called "Moveable tables", requires users to use swipe gestures to visualize the whole horizontal table. It is easy to implement but is not advisable for tables with large amounts of content as most part remains unseen. Please note this technique is different from techniques such as "Carousel Columns" as the primary column is fixed but only the data columns are navigated using swipe gestures.

#### Relationship to HKU Educational Aims

Relationship of BASc(FinTech) Programme Learning  
Outcomes to HKU Educational Aims

←  → scroll to view more

	HKU Educational Aims			
Programme Learning Outcomes	Pursuit of academic/professional excellence, critical intellectual enquiry and life-long learning	Tackling novel situations and ill-defined problems	Critical self-reflection, greater understanding of others, and upholding personal and professional ethics	Intercultural understanding and global citizenship
a	✓			
b	✓			
c	✓	✓		
d	✓			
e				
f			✓	✓
g				✓

You are required to use **pure CSS techniques** to transform the desktop look into a mobile look suitable for displaying in any current mobile devices. You CANNOT USE the "Moveable" technique as it is too easy to be implemented. You CANNOT DESIGN two different tables or structures and JUST FLIP the display. The mobile look should be good for mobile devices with screen width  $\geq 300\text{px}$ .

#### Resources

You are provided with the following file.

- PLO-EA.docx – this file contains the data of the HKU-Aim relationship.

#### Testing platform

We shall place all your files in the LAMP container set and use Chrome and/or Firefox to test the program with various screen widths: 300px, 450px, 650px, 900px, 1200px, & 1500px.

## Submission

Name the html file to index.html. You can put all CSS style rules in an external file or in an embedded style sheet. Please finish this assignment before **February 24 Friday 17:00**. Submit the following files:

1. index.html
2. any CSS styling files.

## Grading Policy

Points	Criteria
1.0	Vertical alignment of the “Programme Learning Outcomes” header (on wide-screen layout)
3.0	With suitable CSS styling to decorate the webpage
5.0	Responsive Web Design <ul style="list-style-type: none"><li>• Support various screen width</li></ul>
-1.0	Not using index.html as the main page
-4.0	Use different tables or structures to store the desktop look and mobile look
-3.0	Use the “Moveable tables” technique to implement the mobile look

## 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.***