SIT313 Week 1 Practical

Slide Set + Pre-Recorded Videos

- Week 1 slides and topic videos on Cloud Deakin
  (1) HTTP + (2) Web Development (HTML) + (3) CSS + (4) JavaScript

Practical

You can find the solution files after the practicals on **Cloud Deakin> Content > Weekly materials > Week1 > Practical**. Good luck!

- **Part 1: HTML**

  We will focus on the following concepts in HTML.

  Step1: HTML Heading & Paragraph & Link _ A guide on how to do this can be found at this link.

  - Add a title that says: Current Students
  - Add a heading that says:
    SIT313 - Developing Client-Server Web Applications
  - Add a smaller heading that says:
    Unit details
  - Add another smaller heading that says:
    Content
  - Add a paragraph which says the following:
    Web technologies are used to underpin many modern software applications, and understanding how to build client and server side programs is an integral part of building these applications. This unit is part of the application development major, and explores the development of web applications using the latest standards.
  - In the last line of the web page, add a link that the user can click under the word > Current student and bring them to this web page:

  The web page should look like as follows:

  SIT313 - Developing Client-Server Web Applications

  Unit details

  Content

  Web technologies are used to underpin many modern software applications, and understanding how to build client and server side programs is an integral part of building these applications. This unit is part of the application development major, and explores the development of web applications using the latest standards.

  > Current students

  Step 2: HTML Image _ A guide on how to do this can be found at this link.
  - Add a logo on top as follows:

Step 3: HTML Table _ A guide on how to do this can be found at [this link](#).
- Add a table as shown below:

Step 4: HTML Block _ A guide on how to do this can be found at [this link.](#)
- Add a block on top of the page with "darkcyan" colour background as shown below:

- **Part 2:CSS**

In this part, we will focus on CSS to describe the style of an HTML document. Using CSS, you could put all your styling option in one place and separate it from an HTML document. The style could also be applied to all pages of the website.

[CSS](#)
[CSS Colour](#)

Step 1. CSS Fonts _ A guide on how to do this can be found at this link.
- Change all fonts to Arial

Step 2. CSS Tables _ A guide on how to do this can be found at this link.
- Add a horizontal divider to the table and change the table style to a zebra-striped table.

Final webpage is as follows.

- **Part 3: JavaScript**

It's time to code some javascript! Get your text editor e.g., sublime ready for this exercise, and use Google Chrome javascript console to test your code.

BMICalculator_ A guide on how to do this can be found at: JavaScript   JS Function
Bootstrap Bootstrap Buttons

In this part, you are asked to create a basic BMI Calculator using *JavaScript functions* and *Bootstrap*. The function takes the weight and height as inputs and calculate the BMI and return a message based on the number. You can calculate BMI using the following equation and guidelines.

$$BMI = \frac{weight(kg)}{height^2(m^2)}$$

$If\ BMI\ \leq\ 18.5, return\ "Underweight"$
$If\ BMI\ \leq\ 25, return\ "Normal"$
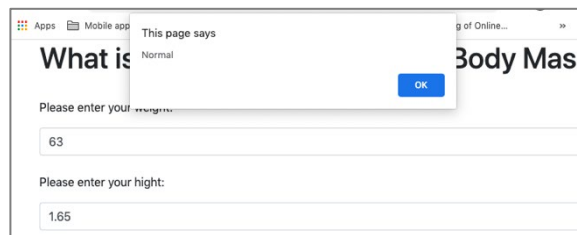$If\ BMI\ \leq\ 30, return\ "Overweight"$
$If\ BMI\ >\ 30, return\ Obese$

The output should be the following web page:

What is my BMI? Calculate your Body Mass Index below

Please enter your weight:

63

Please enter your hight:

1.65

Calculate

Please see the following helpful websites to learn more about JS :
https://developer.mozilla.org/en-US/docs/Web/JavaScript
https://github.com/rwaldron/idiomatic.js/