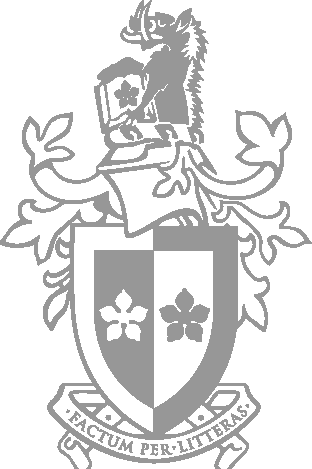
Faculty of Science, Engineering and Technology





**Interface Design and Development**

Credit Task 3: Revisiting Design Consideration & Website

**Overview**

Creating a website from scratch is never an easy task. Thanks to the community who invent, develop and maintaining web development framework such as Bootstraps and AngularJS. A website can be developed with less pain and quicker using these frameworks. Table often contains data from an array, JSON object or database. In this task, you will revisit previous tasks and enhance its UI using Bootstrap and management it content using AngularJS.

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**Purpose:** Learn how to create a single page website, style a table using Bootstraps and display the website dynamic content using AngularJS’s MVC components.

**Task:** Use the following instructions to enhance the wireframe (developed in Pass Task 2) and implement it using the Bootstrap & AngularJS framework.

**Time:** This task should be completed in your lab class and submitted for feedback before the start of week 9. (~1 month)

**Resources:**

* + - Lecture notes & tutorial #1 - #6
    - <http://quirktools.com/screenfly/>

***Submission Details***

**You must submit the following files to Canvas**:

* Web page source code (units3.html).
  + Screenshot of the table webpage
* Web page source code (index.html) with appropriate content
  + Design for xs with row.column numbering
  + Design for md with row.column numbering
  + Screenshot of the webpage in a mobile & desktop views
* **Answer to the question for webpage development (Component 2 – Answer.docx) With Achecker report**

Make sure that your task has the following in your submission:

* The design must observe the layout rule (row.column)
* Code must be HTML5 standard and observe indentation.
* Code must be rendered to show your one-page corporate website.
* Your webpage must use the Bootstrap & AngularJS framework and commented appropriately.

Component 1: My AngularJS Generated Table

**Instructions**

Loop directive in AngularJS allows one to programmatically generate a list or table based on a given data and Bootstrap frameworks is used to style the table.

1. Open Brackets and save the blank file as units3.html in your lab06 directory.
2. Start the web application code with the template for AngularJS found in lecture 03.
3. Implement a web application with the following logic:
   1. Initialise the array of objects with the following unit information

|  |  |  |  |
| --- | --- | --- | --- |
| Unit codes | Units | Credit points | Type |
| ICT10001 | Problem Solving with ICT | 12.50 | Core |
| COS10005 | Web Development | 12.50 | Core |
| ICT30005 | Professional Issues in Information Technology | 12.50 | Core |
| ICT30001 | Information Technology Project | 12.50 | Core |
| COS20001 | User-Centred Design | 12.50 | Software Development |
| TNE10005 | Network Administration | 12.50 | Software Development |
| … | … | … | … |
| COS30043 | Interface Design and Development | 12.50 | Software Development |
| COS30017 | Software Development for Mobile Devices | 12.50 | Software Development |
| INF20012 | Enterprise Systems | 12.50 | Systems Analysis |
| ACC10007 | Financial Information for Decision Making | 12.50 | Systems Analysis |
| INF20003 | Requirements Analysis and Modelling | 12.50 | Systems Analysis |
| ACC20014 | Management Decision Making | 12.50 | Systems Analysis |
| INF30005 | Business Process Management | 12.50 | Systems Analysis |

Table 1: Unit Information (some records omitted)

* 1. List the units in a table ordered by unit description and filterable with unit code, unit description and type. The credit point must be displayed with 2 decimal places.

1. Add Bootstrap classes on the table. Table must also be responsive.

**Note:** The table header must be styled differently from the body.

1. Ensure that table accessibility (recap on Lab 1) by:
   1. Show no known problem at least at WCAG 1.0 (Level A)
   2. having a caption element.
   3. using the relevant ‘th’ and ‘td’ elements
   4. using ‘id’ attributes to the ‘th’ elements and ‘headers’ attributes to each of the ‘td’ elements, to bind the relevant ‘th’ to each ‘td’
2. Ensure that your HTML source code passed the HTML validation.
3. Your web app should now be complete. Make sure you test it on the browser to make sure that it works as you expect. Leave comments in your code to explain its function.

Component 2: Revisiting My Bootstrap Template Library

**Instructions**

In creating a single page website, we need to identify the purpose of the webpage and design it first on paper. You may also want to review existing designs or consult with actual users before you finalise and implement it.

To demonstrate this, lets create and develop a complete **one-page** corporate website. Draw your design and answer the questions in the answer sheet provided in the **resources** for this task.

1. Create a Word document/Microsoft Paint/Any drawing software then draw the following:

The one-page corporate site template will have

* the following elements: **responsive corporate header navigation bar**, company landing page (jumbotron), main product highlight, product features, and footer navigation bar.
* **2 layout design**: xs and md (mobile & desktop)
* **content (text or image)** that showcase the purpose of each structure box
* the content must be store and render dynamically.
* **answer and fulfil all requirements stated in the checklist with evidences**.

**Note:** Note: Recall the topic/website you’ve chosen in Pass Task 2.3, you **MUST** include a proper acknowledgement and reference in your website as part of Academic Integrity practices. Failure to do so may resulting your work being rejected from being signed off.

1. Number each structure box in your design using the row.column numbering format.
2. Open your Brackets/IDE of choice and create a new file. Save it as **index.html** in your *Documents/cos30043/lab06* directory.
3. Implement your design using the Bootstrap start code.
4. Your web-page must load and render its content dynamically **using AngularJS**. You **may consider** defining the content using array / JSON object in the controllers.
5. Consider using [Screenfly](http://quirktools.com/screenfly/) to test your webpage from various views and devices.
6. Remember to save the document and backup your work! Storing your work in multiple locations will help ensure that you do not lose anything if one of your computers fails, or you lose your USB Storage.