Higher Diploma in Science in Data Analytics

Web Application Development

Final Assessment

This assessment is worth 50% of the marks for this module
Due Date: Sunday 24th May @ 6:00pm

WEBSITE DEVELOPMENT ASSIGNMENT

For this assignment, you must create a business website that employs the principles of HTML5, CSS and JavaScript which meets the requirements specified below.

The 'business' can be of your choosing (or can be a personal site meeting the requirements outlined below). You should employ a common design theme and colour scheme throughout.

Requirements

Your website should:

- Have a minimum of 3 linked pages;
- Allow the customer to enter their login details and have login details validated (via a login screen);
- Perform form validation through JavaScript or HTML to ensure that:
    - text fields are not empty;
    - a valid email address is entered.
- Access and change HTML on the web page through the DOM;
- Access and change styling through the DOM;
- Demonstrate the use of events;
- Contain 2 data visualisations (e.g., Bar Chart) of your choosing
    - One from a CSV file
    - One from an array
- Both visualisations should allow the user to specify display settings, including an option to change colour, display size and animations.

Please note the following:

Please ensure that you include comments throughout your code to **<u>indicate clearly</u>** what you code is doing

HTML
Ensure that major HTML sections include comments indicating purpose and function

CSS
All classes and ID's created in CSS must be accompanied by comments describing its purpose

JavaScript & D3.JS
<u>All blocks of code</u> in JavaScript and D3 must include a comment describing its purpose and functionality