



*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 **indicate clearly** 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

**All blocks of code** in JavaScript and D3 must include a comment describing its purpose and functionality