Higher Diploma in Science in Data Analytics

Web Applications Development
Final Assessment

This assessment is worth 50% of the marks for this module

Due Date: Sunday 27th May @ 11:59pm

Business Website Development Assignment (40%)

For this assignment, you must create a business e-commerce 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:

- Allow the user to 'purchase'* items from the site;
- Allow the customer to enter their login details and have login details validated (via a login screen) before receiving a summary of the order;
- Perform form validation through JavaScript to ensure that:
  o text fields are not empty;
  o a valid email address is entered.
- Include a slideshow or carousel which displays a different image each time the page is loaded;
- Access and change HTML on the web page through the DOM;
- Access and change styling through the DOM;
- Demonstrate the use of events;
- Connect to a database that contains relevant site information (eg., product info);
- Use the Bootstrap framework (via CDN)
- Be a responsive website, that should display on standard devices from large screen monitors, to tablets and phones.

For this assignment, 'purchase' can mean that the user is presented with the possibility to choose a product or item, select a quantity, and if the purchased button is clicked, they will be presented with a total cost.