

Create a business website that employs the principles of HTML5, CSS and JavaScript which meets the requirements specified below.

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| **Requirement** | **Comment** |
| Ensure that major **HTML** sections include comments indicating purpose and function | Requirement met. |
| All classes and ID’s created in **CSS** must be accompanied by comments describing its purpose | Requirement met. |
| All blocks of code in **JavaScript and D3** must include a comment describing its purpose and functionality | Requirement met. |
| Employ a common design theme and colour scheme throughout | This is achieved by means of an external stylesheet.css document. |
| Have a minimum of 3 linked pages | The project consists of 4 linked pages. |
| Allow the customer to enter their login details and have login details validated (via a loginscreen).  Perform form validation through JavaScript or HTML to ensure   * text fields are not empty * a valid email address is entered. | This feature appears on the login page (login.html)   * Form validation is achieved by use of HTML *<input> required* attribute, a Boolean characteristic. No progress will be made if the text fields are blank. * Using email data type enables the script to recognise the correct format and give the appropriate error message |
| Access and change HTML on the web page through the DOM | This is demonstrated on the web page “View Management Message” (message.html) where a button is clicked to display a motivational message for staff. |
| Access and change styling through the DOM | The home page (index.html) contains three buttons in footer area which are clicked to achieve the following style changes through the DOM   * Change font colour of one segment of text * Change font emphasis to italicised text in a paragraph * The text of a third paragraph is increased   Separately, the csv data visualisation enables the user to change height settings through the DOM. |
| Demonstrate the use of events | The "use of events" in this context refers to events in javascript. An event in Javascript is something that "happens", typically on the page.  The events in this assignment include:  Hover – hover mouse over the item will change text colour.  Onscroll – when user scrolls past a predefined point on the page, a button appears which will bring them back to the top.  Onclick – user may change the display settings on data visualisations. |
| 2 data visualisations (e.g., Bar Chart) of your choosing   * One from a CSV file   visualisations should allow the user to specify display settings, including an option to change colour, display size and animations | In order to view this functionality, user must open a python web server because D3 imports the csv file via a web server.  Once python is installed on your computer, open the command line and input *python -m http.server*  Leave the server running in the background.  The Usage Bar Chart allows the user to specify the chart size and colour.  As it renders, there is an eased transition that serves as an animation. |
| 2 data visualisations (e.g., Bar Chart) of your choosing   * One from an array   visualisations should allow the user to specify display settings, including an option to change colour, display size and animations | Incomplete. |