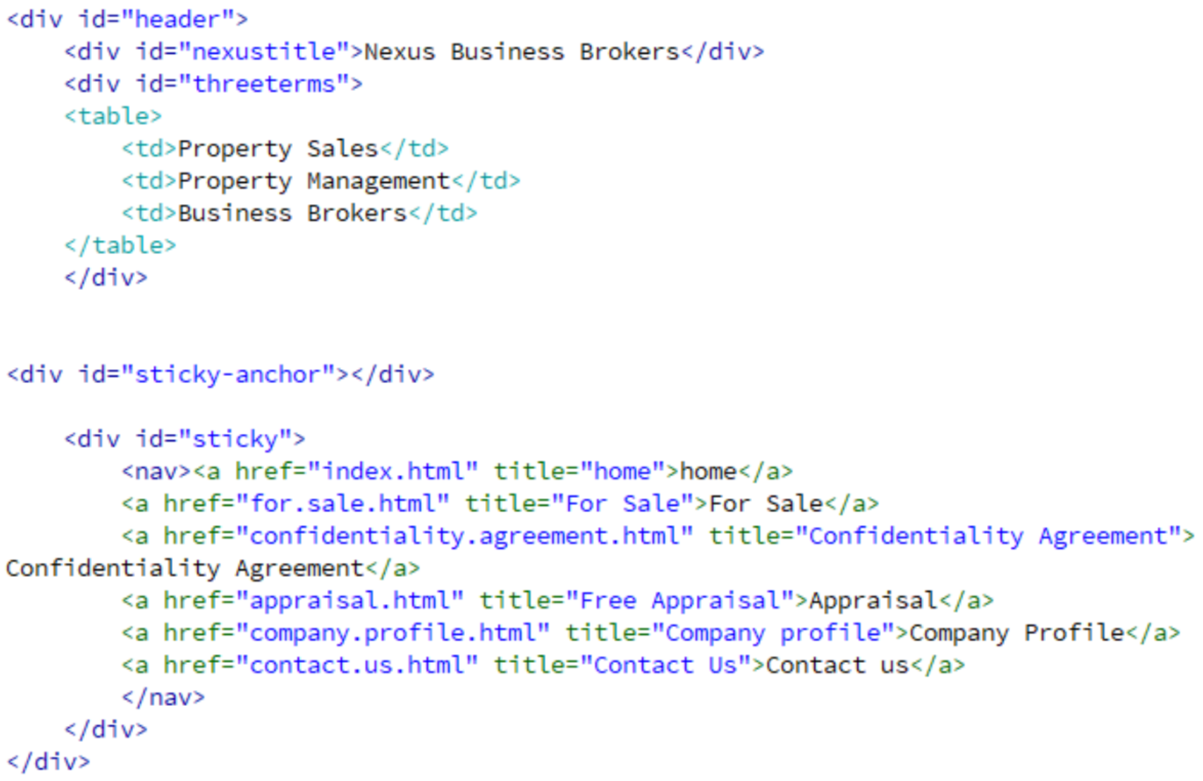
Criterion C: Development

Techniques used

- HTML
- CSS
- JavaScript
- JQuery

HTML5

HTML5 is a mark-up language used for structuring and presenting content on the World Wide Web. I chose to use HTML5 because it is widely supported by many browsers and is simple and easy to use. HTML5 allowed me to structure pages on my website and display links that users can navigate through. (Criteria 3)

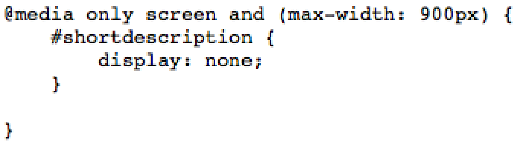


```
<div id="header">
    <div id="nexustitle">Nexus Business Brokers</div>
    <div id="threeterms">
    <table>
        <td>Property Sales</td>
        <td>Property Management</td>
        <td>Business Brokers</td>
    </table>
    </div>


<div id="sticky-anchor"></div>

    <div id="sticky">
        <nav><a href="index.html" title="home">home</a>
        <a href="for.sale.html" title="For Sale">For Sale</a>
        <a href="confidentiality.agreement.html" title="Confidentiality Agreement">
Confidentiality Agreement</a>
        <a href="appraisal.html" title="Free Appraisal">Appraisal</a>
        <a href="company.profile.html" title="Company profile">Company Profile</a>
        <a href="contact.us.html" title="Contact Us">Contact us</a>
        </nav>
    </div>
</div>
```

Cascading Style Sheets

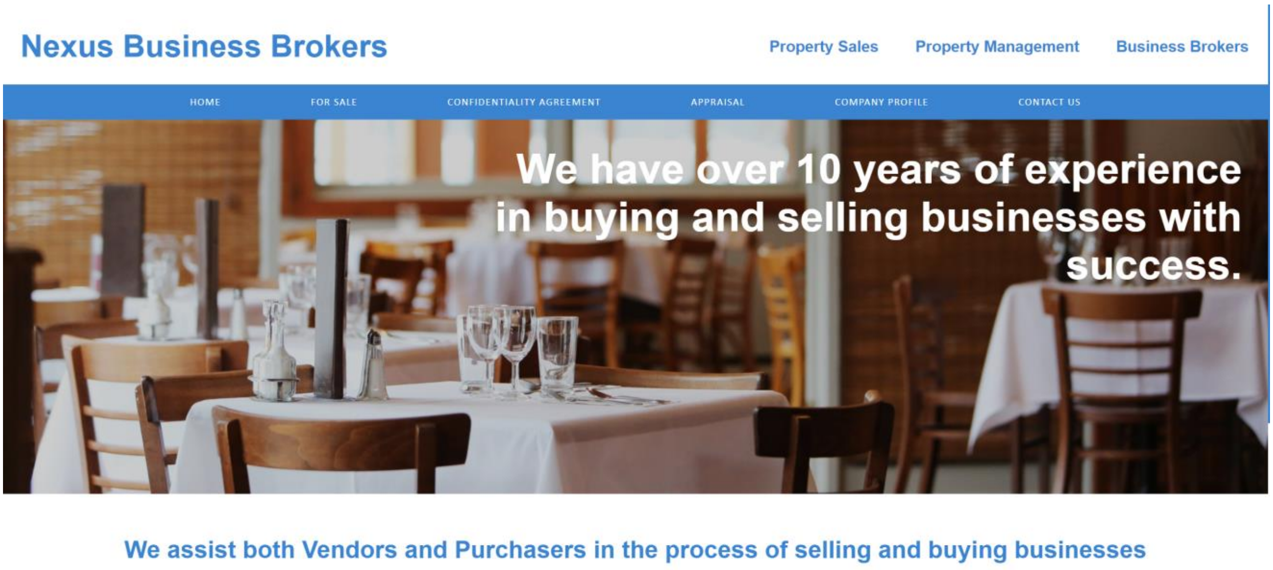
CSS is a style sheet language that is used to describe the presentation of a document written in HTML5. CSS was used in showing how elements in my webpage were to be displayed, and was necessary to satisfy my requirements (Criteria 1 and 6) in making the website aesthetically pleasing and professional whilst being coded to suit a variety of screen sizes. In achieving this aim, CSS played a very important role as it allowed me to style elements of the website and customize features such as inputs, buttons and links on the webpage.

For example, the @media rule was used to make the text disappear if the screen size was small. As well as this, the use of % widths in most elements of the webpage such as the navigation bar, meant that the webpage can be resized and retain its aesthetic value.



```
@media only screen and (max-width: 900px) {
    #shortdescription {
        display: none;
    }

}
```

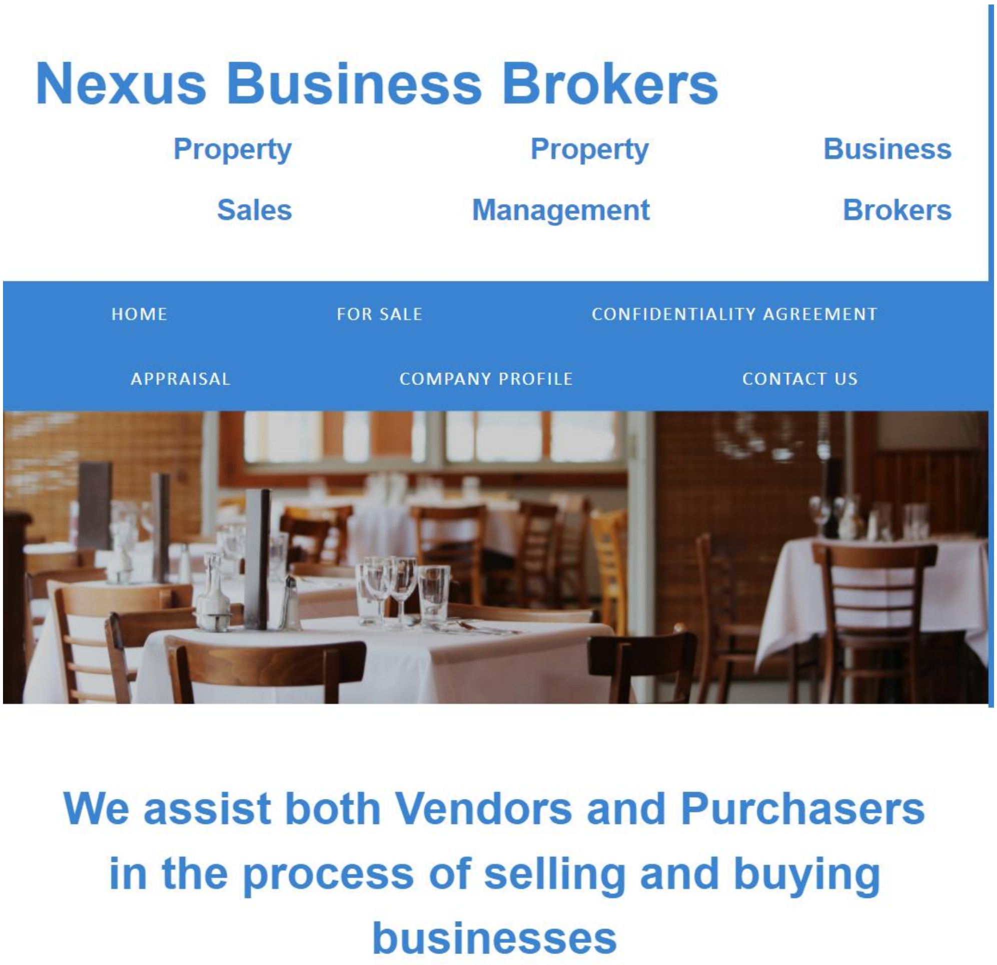
Below, the following screenshots of the website compare how the home page would be displayed on screens of a different size.



Nexus Business Brokers

We have over 10 years of experience in buying and selling businesses with success.

We assist both Vendors and Purchasers in the process of selling and buying businesses



Nexus Business Brokers

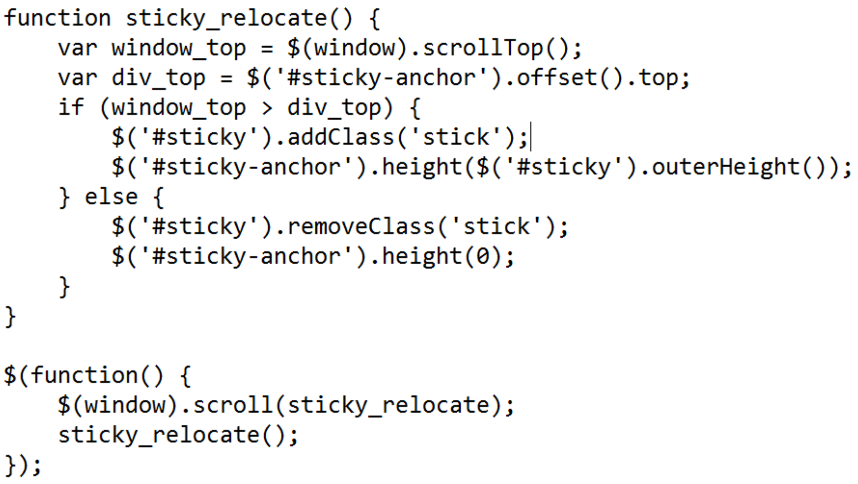
We assist both Vendors and Purchasers in the process of selling and buying businesses

JavaScript

JavaScript is a scripting language used to add client-side behaviour to HTML pages and allows for dynamic interaction. Using JavaScript allowed me to include animations and effects such as a sticky navigation bar, a popup and a slideshow, that brought my website to a greater level of design complexity. Such functions would have also been very difficult to implement without its use.

To make my navigation bar stick, JavaScript was used to relocate the #sticky to the top of the page after scrolling down so that it always stays at the top of the page.

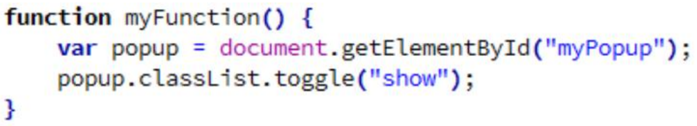
Below is JavaScript code from the file sticky.txt that was applied to each webpage



```
function sticky_relocate() {
    var window_top = $(window).scrollTop();
    var div_top = $('#sticky-anchor').offset().top;
    if (window_top > div_top) {
        $('#sticky').addClass('stick');
        $('#sticky-anchor').height($('#sticky').outerHeight());
    } else {
        $('#sticky').removeClass('stick');
        $('#sticky-anchor').height(0);
    }
}

$(function() {
    $(window).scroll(sticky_relocate);
    sticky_relocate();
});
```

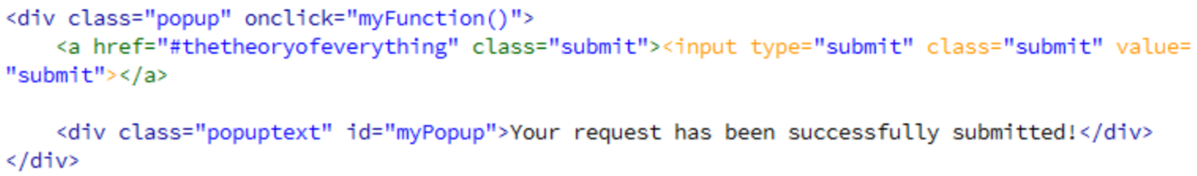
JavaScript was also used in creating my ‘appraisal.html’ page.

The following piece of JavaScript:



```
function myFunction() {
    var popup = document.getElementById("myPopup");
    popup.classList.toggle("show");
}
```

Interacted with HTML:



```
<div class="popup" onclick="myFunction()">
    <a href="#thetheoryofeverything" class="submit"><input type="submit" class="submit" value=
"submit"></a>

    <div class="popuptext" id="myPopup">Your request has been successfully submitted!</div>
</div>
```

This meant that when the submit button at the bottom of the page was clicked, this would trigger a function that caused a popup to show.

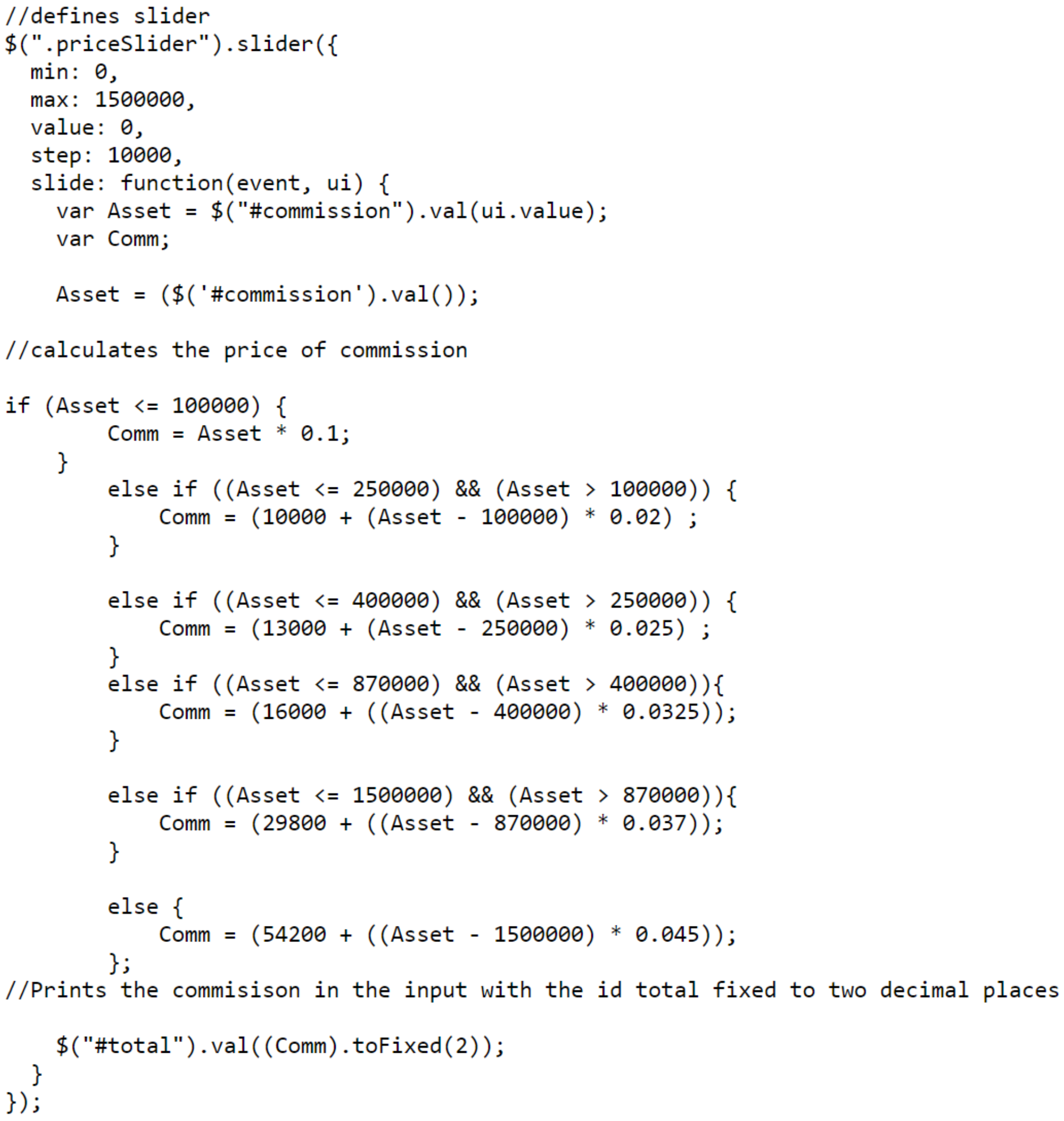
JQuery

JQuery is a JavaScript library which simplifies the client-side scripting of HTML. It increases the productivity of the developer and allows them to achieve functionality with a smaller amount of code. In my project, I incorporated a widget provided by jQuery UI.

Using jQuery/JavaScript, I also demonstrated algorithmic thinking in creating a slider to show how the owner prices the commission they receive for helping to sell a business.

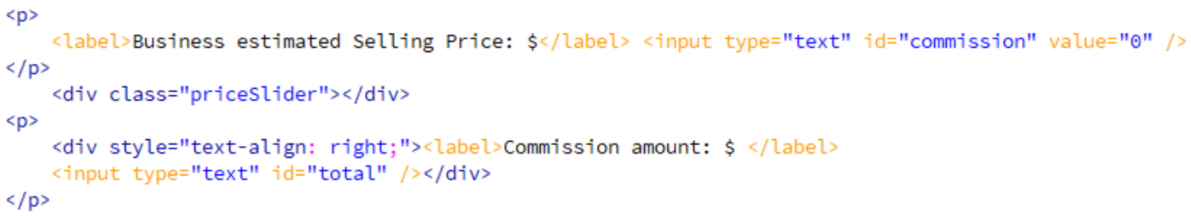
Through jQuery and JavaScript, I created a slider which calculated the price of commission using if statements that changed the value of the commission based off the value of the user's input. The amount of commission, held in the variable 'Comm' was then rounded to 2 decimal places and set as the value of an input bar.

The following is a screenshot of my code for the slider featured in index.html



```
//defines slider
$(".priceSlider").slider({
  min: 0,
  max: 1500000,
  value: 0,
  step: 10000,
  slide: function(event, ui) {
    var Asset = $("#commission").val(ui.value);
    var Comm;

    Asset = ($('#commission').val());

//calculates the price of commission

if (Asset <= 100000) {
        Comm = Asset * 0.1;
    }
        else if ((Asset <= 250000) && (Asset > 100000)) {
            Comm = (10000 + (Asset - 100000) * 0.02) ;
        }

        else if ((Asset <= 400000) && (Asset > 250000)) {
            Comm = (13000 + (Asset - 250000) * 0.025) ;
        }
        else if ((Asset <= 870000) && (Asset > 400000)){
            Comm = (16000 + ((Asset - 400000) * 0.0325));
        }

        else if ((Asset <= 1500000) && (Asset > 870000)){
            Comm = (29800 + ((Asset - 870000) * 0.037));
        }

        else {
            Comm = (54200 + ((Asset - 1500000) * 0.045));
        };
//Prints the commisison in the input with the id total fixed to two decimal places

    $("#total").val((Comm).toFixed(2));
  }
});
```

This is a screenshot of the html used to display the slider on the webpage



```
<p>
    <label>Business estimated Selling Price: $</label> <input type="text" id="commission" value="0" />
</p>
    <div class="priceSlider"></div>
<p>
    <div style="text-align: right;"><label>Commission amount: $ </label>
    <input type="text" id="total" /></div>
</p>
```

Tools used

Font Awesome Icons[1]

“A tool that provides scalable vector icons” that can be customised using CSS. This was included in various pages of my website such as ‘for.sale.cafe.html’ and ‘for.sale.html’ and was very easy to use.

Hover.css by Ian Lunn[2]

“A collection of CSS3 powered hover effects that can be applied to links, buttons…and so on”, was referenced and manipulated in the creation of my submit button on the appraisal page and for sale page and was edited to achieve an interesting effect upon hovering the button using CSS.

Sticky div at top after scrolling[3]

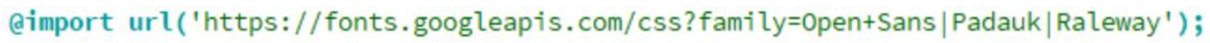
This code was referenced to create my navigation bar which stuck to the top of the page after scrolling. I used the code for my website but heavily edited the element using CSS for my website.

JQuery UI[4]

“JQuery UI is a curated set of user interface interactions, effects, widgets and themes build on top of the jQuery JavaScript Library.” In my project, I used a slider widget to create dynamic interaction in my website where an estimated pricing amount could be calculated when the estimated selling price of a business to be sold was entered in the slider.

Google Fonts

Google fonts is a “directory of open source designer web fonts” developed by Google, supported by a variety of web browsers. Google fonts is also highly accessible through its use of technology such as cross-site caching and the use of the WOFF 2.0 compression when available, making the web faster for all users “particularly in areas where bandwidth and connectivity are an issue”. Fonts can easily be applied to web pages through a stylesheet link which I added to my style.css file through the following line of CSS:



```
@import url('https://fonts.googleapis.com/css?family=Open+Sans|Padauk|Raleway');
```

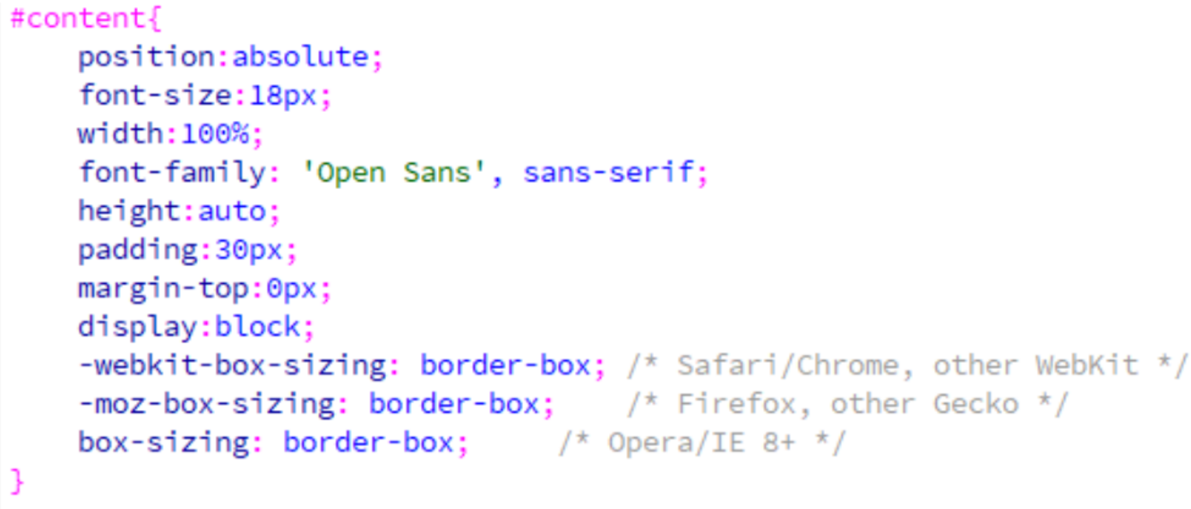
[1] Gandy, D. (2017). *Font Awesome, the iconic font and CSS toolkit*. [online] Fontawesome.io. Available at: http://fontawesome.io/ [Accessed 17 Aug. 2017].

[2] Lunn, I. (2017). *Hover.css - A collection of CSS3 powered hover effects*. [online] Hover.css. Available at: http://ianlunn.github.io/Hover/ [Accessed 17 Aug. 2017].

[3] Lin, Y. (2017). *Stick div at top after scrolling*. [online] Blog.yjl.im. Available at: http://blog.yjl.im/2010/01/stick-div-at-top-after-scrolling.html [Accessed 17 Aug. 2017].

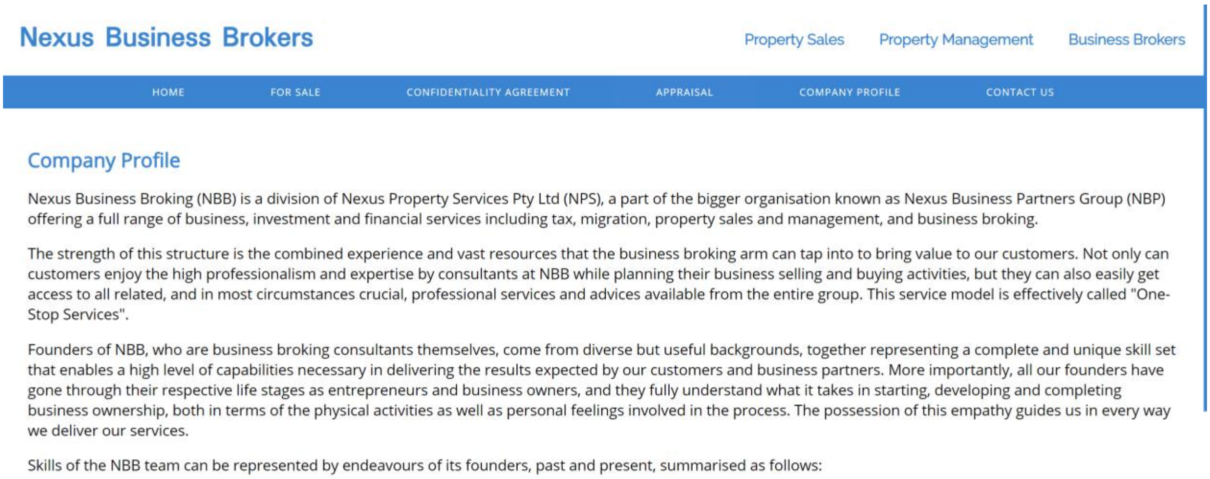
[4] jQuery UI Team (2017). *Slider | jQuery UI*. [online] Jqueryui.com. Available at: http://jqueryui.com/slider/ [Accessed 22 Aug. 2017].

I then applied the fonts that I chose to various classes and id's in my website which helped my website look very professional. For example:



```
#content{
    position:absolute;
    font-size:18px;
    width:100%;
    font-family: 'Open Sans', sans-serif;
    height:auto;
    padding:30px;
    margin-top:0px;
    display:block;
    -webkit-box-sizing: border-box; /* Safari/Chrome, other WebKit */
    -moz-box-sizing: border-box;    /* Firefox, other Gecko */
    box-sizing: border-box;         /* Opera/IE 8+ */
}
```

<u>The following screenshot demonstrates my use of different fonts in the creation of my website. As shown on company.profile.css</u>



Company Profile

Nexus Business Broking (NBB) is a division of Nexus Property Services Pty Ltd (NPS), a part of the bigger organisation known as Nexus Business Partners Group (NBP) offering a full range of business, investment and financial services including tax, migration, property sales and management, and business broking.

The strength of this structure is the combined experience and vast resources that the business broking arm can tap into to bring value to our customers. Not only can customers enjoy the high professionalism and expertise by consultants at NBB while planning their business selling and buying activities, but they can also easily get access to all related, and in most circumstances crucial, professional services and advices available from the entire group. This service model is effectively called "One-Stop Services".

Founders of NBB, who are business broking consultants themselves, come from diverse but useful backgrounds, together representing a complete and unique skill set that enables a high level of capabilities necessary in delivering the results expected by our customers and business partners. More importantly, all our founders have gone through their respective life stages as entrepreneurs and business owners, and they fully understand what it takes in starting, developing and completing business ownership, both in terms of the physical activities as well as personal feelings involved in the process. The possession of this empathy guides us in every way we deliver our services.

Skills of the NBB team can be represented by endeavours of its founders, past and present, summarised as follows:

<u>871 words</u>