



UNIVERSITY OF LINCOLN

<http://benhidewebsite.azurewebsites.net/>

School of Computer Science

CMP1130M WEB AUTHORIZING - ASSESSMENT ITEM 2

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Website URL;

<http://benhidewebsite.azurewebsites.net/>

Video URL;

https://www.youtube.com/watch?v=MwAd_DbWK5I

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1 Introduction

The assessment for the CMP1130M Web Authoring module was to design an interactive website and examine the strengths and weaknesses of current web specifications and standards. The website required the current web standards to be considered whilst using these standards and latest web technologies to achieve a functional website with appropriate technical features where appropriate. Therefore, the website has been designed using the most recent markup language for the content, in this case HTML5, whilst the presentation of the content has been achieved by using CSS3 styling.

As to ensure quality of the website experience and to improve the design features, user feedback which was collected from the milestone discussions during the design process was considered and subsequent improvements made to the website where appropriate. Additional design features and functionality have been applied to the website by using scripting by way of JavaScript and JQuery. The website itself contains features such as hyperlinks, text effects, shadows, multimedia, local storage, CSS3 specific properties and JavaScript/JQuery functions throughout.

2 Web Specifications and Standards

There are many advantages to using web standards when compared to versions of previous iterations. Using the latest web standards will allow for easy maintenance of web pages that can be accessed across various devices. This in turn can bring down running and maintenance costs of web sites as they will have interoperability across different platforms. This is achievable by separating content, presentation, and functionality by using HTML5 documents with external CSS3 styling and JavaScript functionality. Utilising current web standards means that websites will be displayed as the developer desired not only in the present but also in the future as web technologies advance. Furthermore, web standards can help to locate and position websites more efficiently when searched for by various search engines. Finally, web standards give greater accessibility to every type of user no matter what device the web resource is viewed on, this can include viewing websites on older browsers, hand-held devices, and accessibility for users with disabilities. (W3C, 2016)

However, there are some limitations to using the current web standards which can have an impact on their usefulness in certain situations and both for the end user and developer. Web standards require much stricter coding during their development, which also means greater knowledge of the standards is required from the developers. This will include knowledge and

understanding of developing interoperable web sites which are supported by various browsers and device. Furthermore, web standards could be considered to limiting for developers, in terms of creativity and design. To follow them strictly as to achieve complete validation from the W3C may have an impact on the final content and design of a web site. (The Web Standards Project, 2016)

3 Methods

To meet with the current HTML5 web standards the HTML markup of the web page has been implemented using the latest HTML elements as to allow the website to continue to function as expected and provide accessibility now and in the future. In do so It is anticipated that the website will continue to operate in the desired fashion even with the introduction of new web technologies and internet capable devices. The website has also been designed to follow the document object model (DOM) so that it will allow for straightforward access and manipulation to the websites HTML and CSS content when using scripting languages such as JavaScript. The implementation of the document object model in the website will also mean that the website will be compatible with any scripting language used to interact with the documents in the websites themselves. The website has been tested, to ensure interoperability, in several the most popular web browsers used today such as; Chrome, Firefox, Opera, Safari, and Edge. This interoperability can be seen in the supporting video. The HTML5 elements and adherence to the current web standards can be seen in figure 1 and 2 below.

Figure 1 - HTML Markup of the 'head' element linking the webpage to external CSS and JavaScript files, also API for google fonts and JQuery.

```
4 <head>
5   <meta name="viewport" content="width=device-width, initial-scale=1">
6   <meta name="description" content="">
7   <meta charset="UTF-8">
8   <link href="https://fonts.googleapis.com/css?family=Quicksand" rel="stylesheet">
9   <link rel="stylesheet" href="../css/stylesheet.css">
10  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.1.1/jquery.min.js"></script>
11  <script src="../javascript/javascript.js"></script>
12  <title>Skateboards for U - Home</title>
13 </head>
```

Figure 2 - HTML Markup of a webpage designed using the newest semantic/structural elements in HTML5, such as: 'main', 'article', 'section', 'aside' and 'footer'.

```
4 <head>
5   <meta name="viewport" content="width=device-width, initial-scale=1">
6   <meta name="description" content="">
7   <meta charset="UTF-8">
8   <link href="https://fonts.googleapis.com/css?family=Quicksand" rel="stylesheet">
9   <link rel="stylesheet" href="css/stylesheets.css">
10  <script src="javascript/javascript.js"></script>
11  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.1.1/jquery.min.js"></script>
12  <title>Skateboards for U - About</title>
13 </head>
14
15 <body>
16   <header>
17     <nav>
18       <a href="index.html"></a>
19       <a href="index.html"></a>
20     <ul class="topnav" id="myTopnav"> ... </ul>
21   </nav>
22 </header>
23
24 <main>
25   <article id="aboutContent"> ... </article>
26 </main>
27
28 <footer>
29   <section id="assistanceContainer"> ... </section>
30   <section id="footerInfo"> ... </section>
31 </footer>
32 </body>
```

As to meet the current web standards regarding the presentation of the website CSS3 has been used throughout applied to the HTML documents via an external stylesheet which is linked to the HTML document in the header elements on each page. This has been achieved whilst maintaining little to no inline styling within the HTML documents themselves. The employment of an externally linked CSS file is designed to separate of structure of the site from presentation of the site. Additionally, the website has been designed to use WebFonts which will provide the website with interoperability across different browsers, with regards to the text font of the website, without the relevant fonts pre-installed on the user's computer prior to viewing the website. Furthermore, cross browsers support has been employed with the latest CSS3 styling attributes such as the CSS3 transitions and box-shadows of specific HTML elements.

The CSS has been used further to maintain the browser interoperability by using CSS attributes which allow the website to be responsive. To achieve a responsive website, with cross browser support, specific styling attributes have been used when presenting HTML elements so that the dimensions of the elements are defined in percentages rather than pixels. Furthermore, media queries have been implemented throughout the website to define different styling rules for different media devices with varying screen sizes. In doing so the HTML content and CSS presentation of the website is manipulated and/or modified

depending on the screen size on which the website is viewed. The application of these styling techniques allows the website is fully responsive and has elements which are 'liquid' and very flexible when viewed across various browsers and screen sizes. An example of the CSS and latest CSS3 properties can be seen in figures 3 and 4 below. An example of the media queries used can be seen in figure 5 below.

Figure 3 - Cross browsers support for element box-shadow CSS properties

```
45 .itemTop {
46     display: inline-block;
47     width: 50%;
48     padding: 5px;
49     margin: 5px;
50     border: 5px solid #ffffff;
51     box-sizing: border-box;
52     text-align: center;
53     background-color: #FFFFFF;
54     box-shadow: 0px 15px 25px 0px rgba(0, 0, 0, 0.5);
55     -webkit-box-shadow: 0px 15px 25px 0px rgba(0, 0, 0, 0.5);
56     -moz-box-shadow: 0px 15px 25px 0px rgba(0, 0, 0, 0.5);
57     -o-box-shadow: 0px 15px 25px 0px rgba(0, 0, 0, 0.5);
58 }
```

Figure 4 - HTML Elements CSS3 Transition properties which include cross browsers support

```
1049 .firstCloumnSetLinks {
1050     color: #4F7F8F;
1051     transition: font-size 0.5s;
1052     -webkit-transition: font-size 0.5s;
1053     -moz-transition: font-size 0.5s;
1054     -o-transition: font-size 0.5s;
1055 }
1056
1057 .firstCloumnSetLinks:hover {
1058     color: #57A3BD;
1059     font-size: 20px;
1060     transition: font-size 0.5s;
1061     -webkit-transition: font-size 0.5s;
1062     -moz-transition: font-size 0.5s;
1063     -o-transition: font-size 0.5s;
1064 }
1065
1066 .firstCloumnSetLinks:active {
1067     color: #FFFFFF;
1068     font-size: 12px;
1069 }
```

Figure 5 - Media queries used to define different style rules for different screen widths and devices

```
1701 ▼ @media only screen and (max-width: 680px) {  
1702     /***** Main/Body element styling attributes *****/  
1703     main {  
1704         padding-top: 15%;  
1705     }  
1706     body {  
1707         font-size: 14px;  
1708     }  
1709     h2 {  
1710         float: none;  
1711         width: 90%;  
1712         padding: 2%;  
1713         margin: 2%;  
1714     }  
1715     h3 {  
1716         width: 100%;  
1717     }
```

As to implement additional functionality to the website JavaScript and JQuery functions were created which can manipulate the HTML and CSS of the website, making the website more dynamic. Scripting functions have been used for the image slider, configurator, loading HTML content, saving data to local storage and the drop and drag shopping cart. Examples of the scripting can be seen in figures 6 – 9 below.

Figure 6 - JQuery functions called from the `$(document).ready` function, makes sure that the DOM is loaded before the contained functions can be called

```
javascript.js  
  
1 ▼ $(document).ready(function () {  
2  
3  
4     console.log("ready!");  
5  
6 ▼     $('.backgroundImage').on('change', function (e) {  
7         var backgroundImage = $(this).find("option:selected").data('boardimage');  
8         $(".holder").css('background-image', 'url(' + backgroundImage + ')');  
9     });
```


Figure 7 - JQuery function to load HTML markup to webpages dynamically

```
82 ▾    $(".newsItem1").click(function () {  
83        var newsItem1 = "Sed ut perspiciatis unde omnis iste natus error sit volu  
        quae ab illo inventore veritatis et quasi architecto beatae vitae dicta s  
        odit aut fugit, sed quia consequuntur magni dolores eos qui ratione volup  
        dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius mo  
        Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis susc  
        eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestia  
        pariatur?";  
84        $(".newsDiv").html("<p>This is the 1st news item</p>" + newsItem1);  
85    });
```

Figure 8 - JavaScript function on a HTML form which uses local storage to store data locally within the user's browser

```
108 ▾    function init() {  
109 ▾        if (localStorage["firstName"]) {  
110            $('#firstName').val(localStorage["firstName"]);  
111        }  
112 ▾        if (localStorage["lastName"]) {  
113            $('#lastName').val(localStorage["lastName"]);  
114        }  
115 ▾        if (localStorage["email"]) {  
116            $('#email').val(localStorage["email"]);  
117        }  
118 ▾        if (localStorage["comment"]) {  
119            $('#comment').val(localStorage["comment"]);  
120        }  
121    }  
122    init();  
123  
124 ▾    $('form').keyup(function () {  
125        localStorage[$(this).attr('name')] = $(this).val();  
126    });  
127  
128 ▾    $('#localStorageForm').submit(function () {  
129        alert("stored in local storage");  
130    });
```


Figure 9 - JQuery function to hide/show HTML elements dynamically

```
133 ▾    $(".viewElementProduct1").click(function () {  
134        $(".elementProduct1").show("slow");  
135 ▾        $(".products").animate({  
136            height: '100%',  
137        }, "slow");  
138 ▾        $(".products li").animate({  
139            width: '100%',  
140        }, "slow");  
141 ▾        $(".elementProdList1").animate({  
142            height: '100%',  
143        }, "slow");  
144        $(".viewElementProduct1").hide();  
145        $(".item1").hide();  
146        $(".elementProdList2").hide();  
147        $(".elementProdList3").hide();  
148    });
```

4 File Organisation and HTML Validation

4.1 FILE ORGANISATION/STRUCTURE

Figure 10 - File organisation/structure of the website

This PC > Documents > Work > Web Authoring > website				
Name	Date modified	Type		
css	11/01/2017 17:34	File folder		
html	11/01/2017 21:23	File folder		
images	11/01/2017 13:01	File folder		
javascript	11/01/2017 17:34	File folder		
media	11/11/2016 16:22	File folder		

This PC > Documents > Work > Web Authoring > website > css				
Name	Date modified	Type	Size	
splashStylesheet	18/11/2016 17:02	CSS File	3 KB	
stylesheet	11/01/2017 17:34	CSS File	41 KB	

This PC > Documents > Work > Web Authoring > website > html				
Name	Date modified	Type	Size	
about	11/01/2017 20:55	Chrome HTML Do...	6 KB	
atomItems	11/01/2017 20:55	Chrome HTML Do...	13 KB	
contact	11/01/2017 21:47	Chrome HTML Do...	8 KB	
customSkateboards	11/01/2017 20:55	Chrome HTML Do...	26 KB	
elementItem	11/01/2017 21:47	Chrome HTML Do...	6 KB	
elementItems	11/01/2017 20:55	Chrome HTML Do...	13 KB	
index	11/01/2017 20:55	Chrome HTML Do...	12 KB	

This PC > Documents > Work > Web Authoring > website > images				
Name	Date	Type	Size	
customizerImages	04/01/2017 20:04	File folder		
atomDeck1	11/01/2017 08:54	PNG image	441 KB	
atomDeck2	11/01/2017 08:55	PNG image	620 KB	
atomDeck3	11/01/2017 08:55	PNG image	625 KB	
atomLogo	18/11/2016 17:11	PNG image	16 KB	
elementDeck1	15/11/2016 20:30	PNG image	180 KB	
elementDeck2	18/11/2016 17:53	PNG image	374 KB	
elementDeck3	18/11/2016 18:02	PNG image	219 KB	
elementDeck4	18/11/2016 17:55	PNG image	183 KB	

This PC > Documents > Work > Web Authoring > website > javascript				
Name	Date modified	Type	Size	
javascript	11/01/2017 16:59	JS File	15 KB	

4.2 W3C VALIDATION OF THE MAIN WEBSITE PAGES

Figure 11 - W3C Validation of the website pages, starting at index.html

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <http://benhidewebsite.azurewebsites.net/index.html>

Checker Input

Show ☐ source ☐ outline ☐ image report [Options...](#)

Check by [address](#)

<http://benhidewebsite.azurewebsites.net/index.html>

[Check](#)

Document checking completed. No errors or warnings to show.

Used the HTML parser.
Total execution time 245 milliseconds.

Figure 12 - W3C Validation of about.html

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <http://benhidewebsite.azurewebsites.net/about.html>

Checker Input

Show ☐ source ☐ outline ☐ image report [Options...](#)

Check by [address](#)

<http://benhidewebsite.azurewebsites.net/about.html>

[Check](#)

Document checking completed. No errors or warnings to show.

Used the HTML parser.
Total execution time 402 milliseconds.

Figure 13 - W3C Validation of products.html

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <http://benhidewebsite.azurewebsites.net/products.html>

Checker Input

Show ☐ source ☐ outline ☐ image report [Options...](#)

Check by [address](#)

<http://benhidewebsite.azurewebsites.net/products.html>

[Check](#)

Document checking completed. No errors or warnings to show.

Used the HTML parser.
Total execution time 330 milliseconds.

Figure 14 - W3C Validation of contact.html

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <http://benhidewebsite.azurewebsites.net/contact.html>

Checker Input

Show ☐ source ☐ outline ☐ image report

Check by: address

Document checking completed. No errors or warnings to show.

Used the HTML parser.
Total execution time 330 milliseconds.

Figure 15 - W3C Validation of news.html

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <http://benhidewebsite.azurewebsites.net/news.html>

Checker Input

Show ☐ source ☐ outline ☐ image report

Check by: address

Document checking completed. No errors or warnings to show.

Used the HTML parser.
Total execution time 705 milliseconds.

Figure 16 - W3C Validation of skateboardProducts.html

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <http://benhidewebsite.azurewebsites.net/skateboardProducts.html>

Checker Input

Show ☐ source ☐ outline ☐ image report

Check by: address

Document checking completed. No errors or warnings to show.

Used the HTML parser.
Total execution time 637 milliseconds.

Figure 17 - W3C Validation of longboardProducts.html

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for http://benhidewebsite.azurewebsites.net/longboardProducts.html

Checker Input

Show

☐ source

☐ outline

☐ image report

Options...

Check by address

http://benhidewebsite.azurewebsites.net/longboardProducts.html

Check

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 311 milliseconds.

Figure 18 - W3C Validation of customSkateboards.html

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for http://benhidewebsite.azurewebsites.net/customSkateboards.html

Checker Input

Show

☐ source

☐ outline

☐ image report

Options...

Check by address

http://benhidewebsite.azurewebsites.net/customSkateboards.html

Check

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 303 milliseconds.

Figure 19 - W3C Validation of welcomeItem.html

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for http://benhidewebsite.azurewebsites.net/welcomeItems.html

Checker Input

Show

☐ source

☐ outline

☐ image report

Options...

Check by address

http://benhidewebsite.azurewebsites.net/welcomeItems.html

Check

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

Message Filtering

1. **Error** Attribute `data` not allowed on element `p` at this point.
From line 76, column 33; to line 76, column 59
`<p class="title" data="25">Welcom`
Attributes for element `p`:
[Global attributes](#)
2. **Error** Attribute `data` not allowed on element `p` at this point.
From line 102, column 33; to line 102, column 59
`<p class="title" data="35">Welcom`
Attributes for element `p`:
[Global attributes](#)
3. **Error** Attribute `data` not allowed on element `p` at this point.
From line 130, column 33; to line 130, column 59
`<p class="title" data="35">Welcom`
Attributes for element `p`:
[Global attributes](#)
4. **Error** Attribute `fitcolumns` not allowed on element `table` at this point.
From line 145, column 21; to line 145, column 81
`<table id="cartcontent" style="width:100%" fitColumns="true">--`
Attributes for element `table`:
[Global attributes](#)
[border](#)
5. **Error** Attribute `field` not allowed on element `th` at this point.
From line 147, column 33; to line 148, column 67
`<tr>--<th style="width:50%" field="name">Name</`
Attributes for element `th`:
[Global attributes](#)
`colspan` - Number of columns that the cell is to span
`rowspan` - Number of rows that the cell is to span
`headers` - The headers for this cell
`scope` - Specifies which cells the header cell applies to
`abbr` - Alternative label to use for the header cell when referencing the cell in other contexts
`columnheader` or `rowheader` role (default - [do not set](#)), [Any other role value](#)
6. **Error** Attribute `field` not allowed on element `th` at this point.
From line 148, column 77; to line 149, column 85
`>Name</th>--<th style="width:26%" field="quantity" align="right">Quanti`
Attributes for element `th`:
[Global attributes](#)
`colspan` - Number of columns that the cell is to span
`rowspan` - Number of rows that the cell is to span
`headers` - The headers for this cell
`scope` - Specifies which cells the header cell applies to
`abbr` - Alternative label to use for the header cell when referencing the cell in other contexts
`columnheader` or `rowheader` role (default - [do not set](#)), [Any other role value](#)
7. **Error** The `align` attribute on the `th` element is obsolete. [Use CSS instead.](#)
From line 148, column 77; to line 149, column 85
`>Name</th>--<th style="width:26%" field="quantity" align="right">Quanti`
8. **Error** Attribute `field` not allowed on element `th` at this point.
From line 149, column 99; to line 150, column 82
`ntity</th>--<th style="width:26%" field="price" align="right">Price<`
Attributes for element `th`:
[Global attributes](#)
`colspan` - Number of columns that the cell is to span
`rowspan` - Number of rows that the cell is to span
`headers` - The headers for this cell
`scope` - Specifies which cells the header cell applies to
`abbr` - Alternative label to use for the header cell when referencing the cell in other contexts
`columnheader` or `rowheader` role (default - [do not set](#)), [Any other role value](#)
9. **Error** The `align` attribute on the `th` element is obsolete. [Use CSS instead.](#)
From line 149, column 99; to line 150, column 82
`ntity</th>--<th style="width:26%" field="price" align="right">Price<`

Document checking completed.

Used the HTML parser.
Total execution time 334 milliseconds.

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[Accessed 16th November 2016].

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googleplusLogo.png

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twitterLogo.png

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elementLogo.png

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atomLogo.jpg

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questLogo.jpg

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sk8mafiaLogo.jpg

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welcomeLogo.png

<http://static1.squarespace.com/static/55562adae4b0d953929667bb/t/55562bcde4b02cd6701a68e4/1441738886979/?format=300w>

sector9Logo.jpg

https://www.sickboards.nl/12780-large_default/sector-9-ball-sticker-small.jpg

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elementDeck2.png

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sk8mafiaDeck2.png

<https://s-media-cache-ak0.pinimg.com/564x/61/63/d3/6163d3acb44a223aad20e71cd0cad47e.jpg>

sk8mafiaDeck3.png

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atomDeck3.png

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atomDeck1.png

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atomDeck2.png

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welcomeDeck2.png

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sector9Deck1.png

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sector9Deck2.png

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sector9Deck3.png

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sector9Deck2.png

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sector9Deck3.png

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KATEBOARD COMPLETE PREASSEMBLED 29633.1465029474.1280.1280.jpg?c=2](http://cdn3.bigcommerce.com/s-e3wch/products/16322/images/28105/BUSTIN_SURF_PINTAIL_36_8.7_X_36_LONGBOARD_S_KATEBOARD_COMPLETE_PREASSEMBLED_29633.1465029474.1280.1280.jpg?c=2)