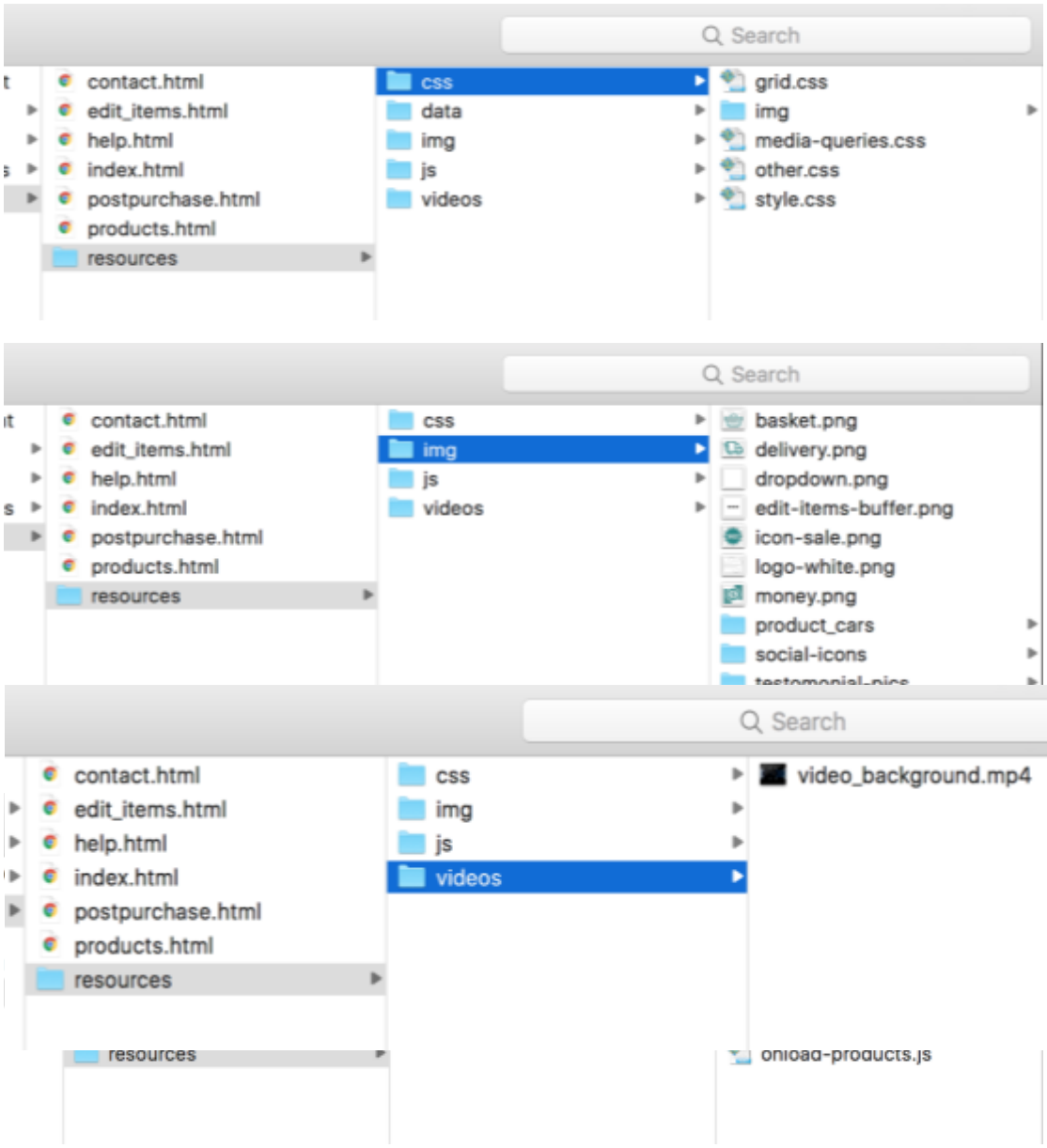
Web Authoring Assignment 2b – Critical Log

Introduction

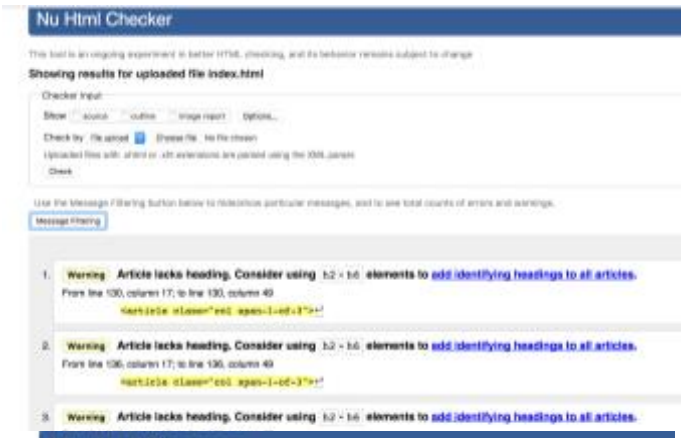
In CMP1130M the task was to create an interactive website for a company that sells transportation products. The requirements were that the products could be customised for the specific product. The report will show: how best practice was applied, the strengths and weaknesses of current web standards, the websites interoperability, techniques used and challenges presented.

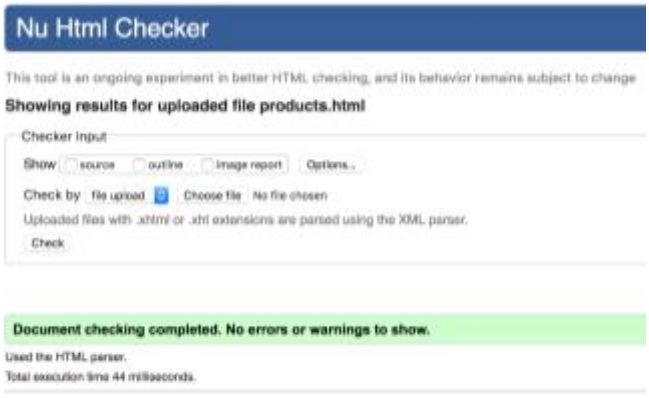
How best practice was applied

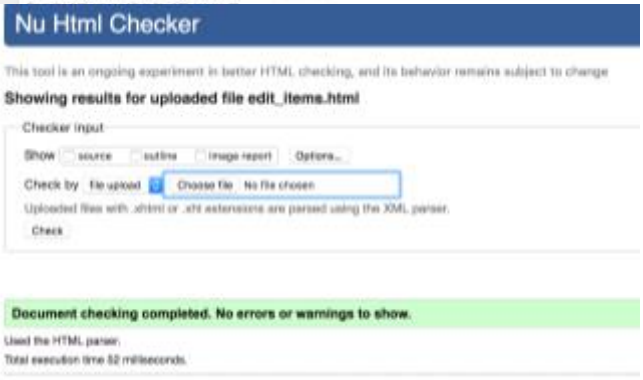
Best practice was mainly identified through W3C, for example the best way to code in html. W3C included new elements such as <nav>, <section>, <article>, <aside>, and <footer>. Rather than using just elements, which can be quite confusing to look at. The new elements were useful in separating the different sections of the website, although not all tags were used such as the <aside> element. File organisation was also considered as shown below:

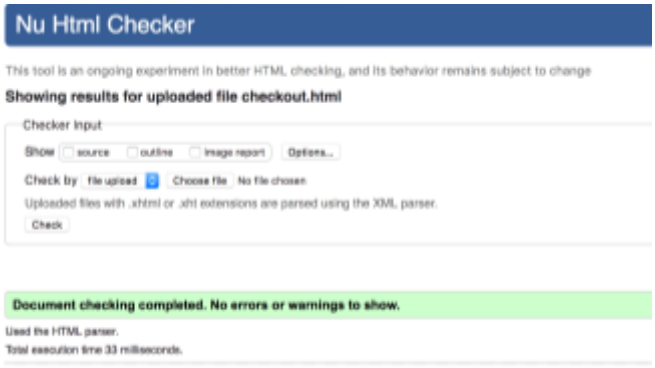


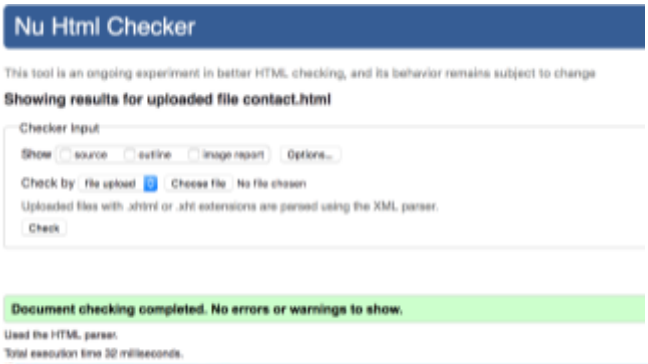
W3C validation was also applied to the HTML files using the W3C validation checker as shown below. This is best practice because all markup language should comply with the W3C standards. Although sometimes the standards could not be met, for example when an article element is used, W3C say they want a heading tag e.g. <h1>,<h2>,<h3> etc. but in some cases the article did not need a heading.

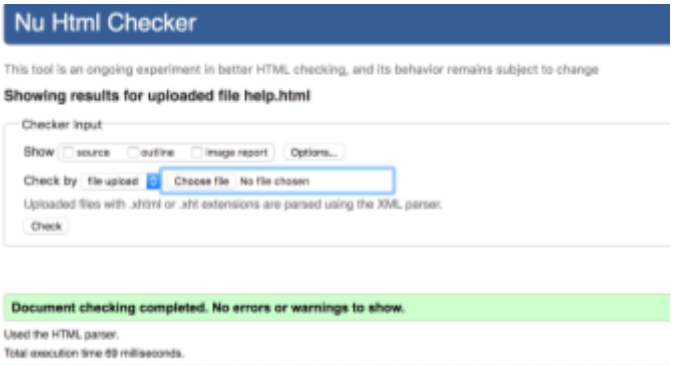












Strengths and Weaknesses of Current Web Standards

Strengths of current web standards could be that it shortens the development time in making the website and there is less maintenance needed in comparison to older standards. This is because rather than having different versions of code trying to get the same output on different web browsers, the new standards make it so that there is only one version of the code for all browsers. Complying to the web standards is getting easier as well because there are sites that validate the code for you, and then the validation website tells you errors for you to fix which also reduces development time.

Although not all browsers can support some of the HTML5, CSS3, JavaScript and jQuery functions. Therefore, a weakness would be that the new standards can make it time consuming to develop in terms of knowing the limitations some of the web browsers have, therefore you have to test it on several browsers as well as different operating systems to see what does not work. It also makes it time consuming because the standards get stricter which means you have to be more aware of the code during development. Due to the W3C standards being stricter, you get warnings when checking your HTML, for example using an <section> element or <article> element requires a heading underneath it. But in some cases headings are not required.

Sites Interoperability

The website interoperability is good as It has been tested on multiple different browsers on those browsers everything is functional. Although IE does not support local or sessionStorage when running the website from the file, it only supports it when it's on a webserver. Examples of it working on different web browsers are shown in the demo part of the website, link to the website is below.

Techniques Used

Various different techniques in JavaScript, jQuery, and CSS were used to make an interactive website for the client. An important technique was using localStorage and sessionStorage, so that it can store data, then use the data in different pages. For example, on the products page, when you click on the "customise" button, JavaScript will look on the parent element of the button that was pressed, and then from there it used sessionStorage to store the image, car name, product price etc. Then the "customise" button links to the edit items page and when the window loads, it will get all the sessionStorage data and output it into the edit items page. This was useful so that the website did not need separate edit item pages for all the cars, instead there is only one edit items page which loads different data depending on which customise button is pressed. Another technique used would be storing arrays into localStorage, by using JSON.parse() and JSON.stringify() methods.

The website also used an animated scroll feature using jQuery, so that when a button is clicked on in the home page, it automatically scrolls to a section of that webpage, this added to the user's experience.

Challenges Presented

Several challenges occurred when developing the website such as making the website responsive to different screen sizes so that it works on different sized devices. This was difficult due to the multiple pages on the website and in addition to this it was time consuming. LocalStorage and sessionStorage was also challenging to use due to the amount of data that had to be passed around in different web pages as well as the different types of data such as arrays which is difficult to store in localStorage/sessionStorage. Another challenge was making aspects work in different browsers, for example IE did not support

localStorage/sessionStorage unless it is on a server. So if you are running it from a file localStorage/sessionStorage will not work.

Conclusion

In conclusion the website is responsive and interactive with the user. It has capabilities that enhances the users experience through CSS and jQuery. The products are customisable so that they can customise different aspects of the car such as colour, engine size, transmission, and wheel type. The website has passed the W3C standards using the W3C validation web page, also best practice was considered throughout the development of the website for example using the new HTML5 elements (<nav><section><article><footer> etc.) and file organisation as well. The overall website interoperability is also functional in different browsers such as Firefox, safari, chrome etc. as well as being responsive to different screen sizes. Although the website could have added more functionality to it such as using drag and drop.

Website URL: http://omnitravell.azurewebsites.net/products.html

Image/video	Reference
Basket.png	https://logomakr.com/
Delivery.png	https://logomakr.com/
Money.png	https://logomakr.com/
Tick.png	https://logomakr.com/
Dropdown.png	https://material.io/icons/#ic_view_list
Logo-white.png	https://material.io/icons/#ic_view_list
Testomonial-1.png	https://yt3.ggpht.com/-ShKv79ocMKc/AAAAAAAAAAI/AAAAAAAAAAA/hv_cQRR50nM/s900-c-k-no-mo-rj-c0xffffff/photo.jpg
Testimonial-2.png	https://organicthemes.com/demo/profile/files/2012/12/profile_img.png
Testimonial-3.png	https://www.google.co.uk/search?q=profile+pictures&source=lnms&tbm=isch&sa=X&ved=0ahUKEwj5diB_rrRAhVMAcAKHbmBDcEQ_AUICCgB&biw=1280&bih=682#imgrc=ZVwpTiVWFbJ99M%3A
Facebook.png	https://www.iconfinder.com/iconsets/social-var-1
Twitter.png	https://www.iconfinder.com/iconsets/social-var-1
Google-plus.png	https://www.iconfinder.com/iconsets/social-var-1
Instagram.png	https://www.iconfinder.com/iconsets/social-var-1
Product_cars folder	http://www.caranddriver.com/best-sports-cars
SC-8-silver_machine.jpg	https://stancewheels.files.wordpress.com/2014/05/sc8_2.jpg
SF01_brush_face_silver.jpg	http://www.stancewheels.com/content/wheels/116/main.jpg
SF01_brush_face_titanium_wheel.jpg	http://cimg6.ibsrv.net/gimg/www.clublexus.com-vbulletin/1097x1024/80-main_c589df2e43155f415c576a52e9911956ee50e0fe.jpg
SF02_brush_titanium.jpg	http://www.stancewheels.com/content/wheels/135/main.jpg
SF03_gloss_black.jpg	http://www.elementwheels.com/prodimages/stancesf03blk.jpg

Road1.jpg	http://www.allcal.com/wp-content/uploads/2014/10/Highway-Driving-Sky.jpg
Sayagata-400px.png	https://subtlepatterns.com/?s=sayagata
Video_background.mp4	https://www.youtube.com/watch?v=ogQZE4yXBcY&t=2s