

Critical Log

Website URL:

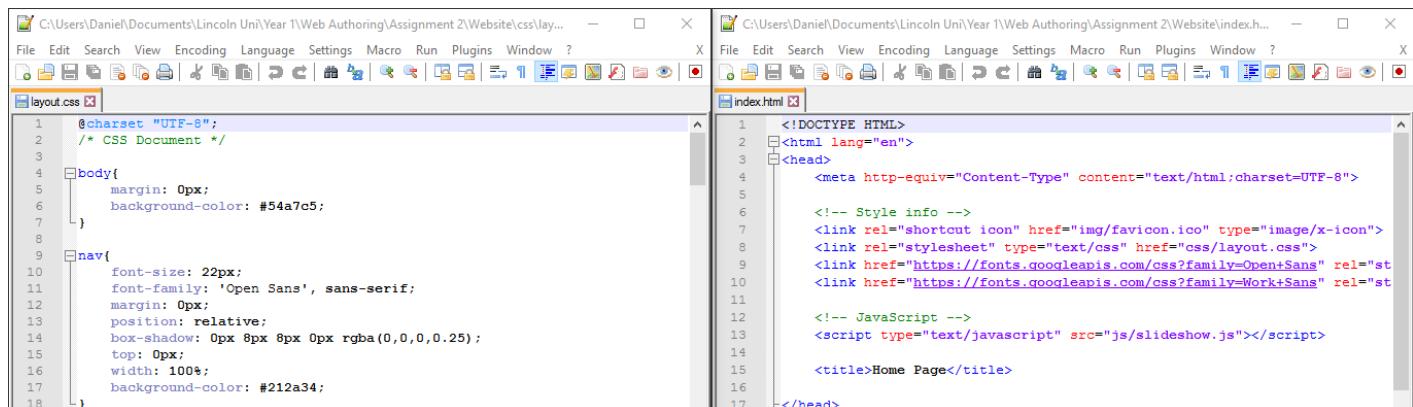
URL: <http://danielturner.azurewebsites.net>

Web Standards:

Web standards were created by the W3C which aim govern certain aspects of the World Wide Web (WWW). The W3C published a set of recommendations which web developers should aim to follow. Although not required, compliance with these standards will allow a website to remain viable in the future and provide the best experience for the largest number of users.

The most popular standard set out by the W3C recommends the usage of HyperText Markup Language (HTML) and Cascading Style Sheets (CSS) for websites. HTML5 is utilised to define the structure and content of a webpage. Whereas CSS3 is used to define the appearance of the website. HTML5 “is compatible with most legacy Web browsers” (W3C, 2016). This is advantageous since the website can reach the largest possible audience. Additionally, saving style information in the CSS3 document allows the download size of the website to be reduced. Ensuring that the page loads quickly. However, modern-day browsers interpret code slightly differently. Thus, websites that operate normally in one browser but may not in another. Resulting in longer development times to resolve. Also, HTML is a static language. Additional scripting languages are required to add dynamic elements to the webpage. This makes the development of the website much more complex and error-prone.

The created website met this standard by being developed using HTML5 and CSS3:



The image shows two side-by-side Microsoft Notepad windows. The left window is titled 'layout.css' and contains the following CSS code:

```

1 @charset "UTF-8";
2 /* CSS Document */
3
4 body{
5     margin: 0px;
6     background-color: #54a7c5;
7 }
8
9 nav{
10    font-size: 22px;
11    font-family: 'Open Sans', sans-serif;
12    margin: 0px;
13    position: relative;
14    box-shadow: 0px 8px 8px 0px rgba(0,0,0,0.25);
15    top: 0px;
16    width: 100%;
17    background-color: #212a34;
18 }

```

The right window is titled 'index.html' and contains the following HTML code:

```

1 <!DOCTYPE HTML>
2 <html lang="en">
3 <head>
4     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
5
6     <!-- Style info -->
7     <link rel="shortcut icon" href="img/favicon.ico" type="image/x-icon">
8     <link rel="stylesheet" type="text/css" href="css/layout.css">
9     <link href="https://fonts.googleapis.com/css?family=Open+Sans" rel="st
10    <link href="https://fonts.googleapis.com/css?family=Work+Sans" rel="st
11
12
13
14
15
16
17     <title>Home Page</title>
18 </head>

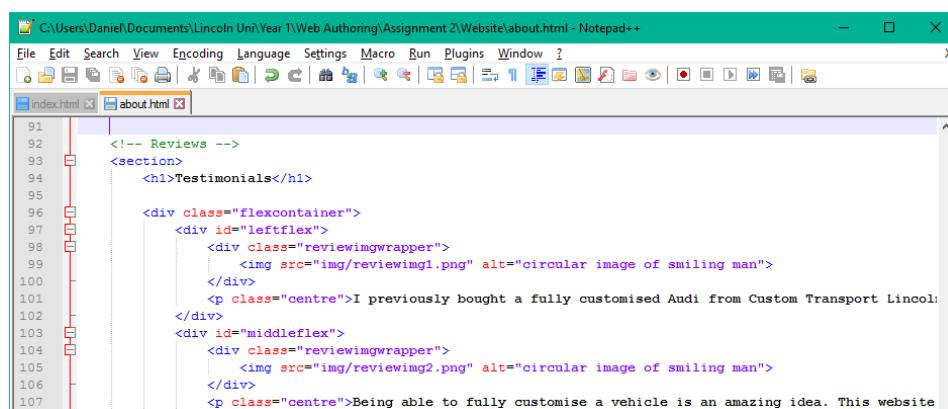
```

The W3C has another standard for implementing user accessibility. These allow users with disabilities to operate the website normally. To achieve this, W3C recommends using: alternative text for images or alternative forms of input.

Adhering to this standard allows the website to be targeted towards a wider audience.

Approximately 54 million disabled persons lived in the United States during 2001 (McNeil, 2001). By providing accessibility options, more people can use the website. In many parts of the world, legislation is in place that requires content to be suitable for people with disabilities. In the UK, the Equality Act 2010 states “A person... must not discriminate against a person... by not providing the person with the service” (Brotherton, 2014). Developers can protect themselves against legal complications by following this standard. However, accessible websites are much more difficult to develop and take a large amount of time to complete. This is because they require multiple advanced implementations of interaction that need to be interoperable.

The created website met parts of this standard by utilising alt tags with images:



A screenshot of the Notepad++ code editor. The title bar shows 'C:\Users\Daniel\Documents\Lincoln Uni\Year 1\Web Authoring\Assignment 2\Website\about.html - Notepad++'. The code editor displays the following HTML:

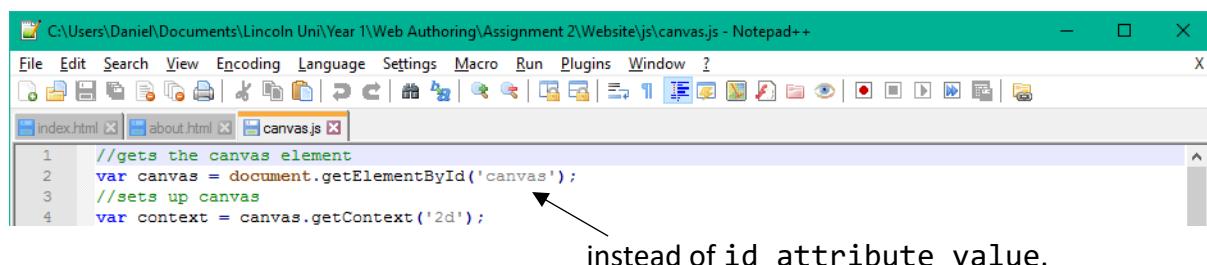
```
<!-- Reviews -->
<section>
  <h1>Testimonials</h1>

  <div class="flexcontainer">
    <div id="leftflex">
      <div class="reviewimgwrapper">
        
      </div>
      <p class="centre">I previously bought a fully customised Audi from Custom Transport Lincoln</p>
    </div>
    <div id="middleflex">
      <div class="reviewimgwrapper">
        
      </div>
      <p class="centre">Being able to fully customise a vehicle is an amazing idea. This website</p>
    </div>
  </div>
```

The W3C also provides standards for the Document Object Model (DOM). The DOM is an interface that allows scripts to alter the content and structure of a webpage. This is useful for providing dynamic content that responds to the user. The W3C DOM defines the list of properties that should be used within scripts. These properties are supported by all modern browsers, aiming to provide maximum cross-browser support.

Since “code will run in compliant browsers with minimal need for cross-browser support” (Mozilla, 2015), following this standard allows the website to be easily interoperable. Therefore, reducing code redundancies and improving efficiency. However, the additional cross-platform support comes at the cost of reduced functionality. Since all browsers need to support a property before it is added to the W3C DOM, certain functionalities may not be able to implemented due to the varied update schedules of browsers. To stay within the W3C standard and to provide interoperability, the developer may be forced to not implement certain functionalities.

The created website met parts of this standard by utilising elements of the W3C DOM:



A screenshot of the Notepad++ code editor. The title bar shows 'C:\Users\Daniel\Documents\Lincoln Uni\Year 1\Web Authoring\Assignment 2\Website\js\canvas.js - Notepad++'. The code editor displays the following JavaScript:

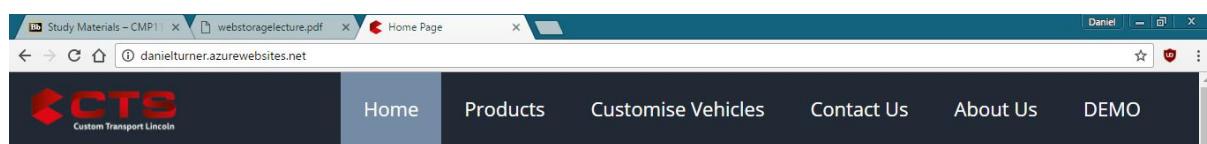
```
//gets the canvas element
var canvas = document.getElementById('canvas');
//sets up canvas
var context = canvas.getContext('2d');
```

An arrow points from the word 'getElementById' to the text 'instead of id_attribute_value.'

Interoperability:

Chrome:

Home:



Welcome to Custom Transport Lincoln,

We are the UK's leading custom transport company. Based in Lincoln, we are capable of providing custom designs and fittings to various types of vehicles which can be shipped across the world right to your doorstep. Many of the world's modern vehicles can be customised. This includes: cars, boats and helicopters with much more variety to be available in the coming months. We also provide the option for customers to purchase our selection of vehicles without modification for a cheaper price. However, turning the stock vehicle into your very own custom vehicle can be done quickly and easily with our online customisation tool.

Have a look at some of our products:



CMP1130M Web Authoring Assessment Item 2.b

Products:

Screenshot of a web browser showing a website for "Custom Transport Lincoln" (CTS). The page displays a grid of vehicles for sale, a basket summary, and sections for promotions and services.

Vehicles:

See our wide selection of vehicles below:

BMW M5 Price: £128,000	Audi R8 Price: £89,000	Ford GT Price: £247,000	Mercedes C220D Price: £120,500
Luxury Yacht Price: £365,000	Warranty Price: £10,000	Audi Q5 Price: £100,000	

Basket

Name	Quantity	Price
Luxury Yacht	1	£365,000
Warranty	1	£10,000
Audi Q5	1	£100,000

Total: £1375000

Drop here to add to basket.

Promotions:

From time to time, limited-time promotions are available for certain vehicles and services. See those below:

Sikorsky PaveLow Price: £456,000	Raven II Price: £230,500	Sikorsky Skycrane Price: £855,000	Bell 206 Price: £225,999
-------------------------------------	-----------------------------	--------------------------------------	-----------------------------

Basket

Name	Quantity	Price
Luxury Yacht	1	£365,000
Warranty	1	£10,000
Audi Q5	1	£100,000

Total: £1375000

Drop here to add to basket.

Services:

We also offer services with our vehicles in order to provide security and peace of mind.

Warranty

To ensure that your purchased vehicle performs at its best for as long as possible. A 3-year warranty is available for purchase that will cover all minor damage that can occur to your vehicle. Excessive damage that causes the vehicle to be written-off will not be covered by this warranty.

Price: £10,000

Tracking Device

A tracking device can be fitted to your car so that it can be located at all times. This is useful for recovering a lost vehicle and ensuring that your investment in our company was not wasted.

Price: £5,000

Performance Evaluation

During the collection process of your vehicle, it can undertake a performance evaluation. This will provide detailed information on the health of your car such as available brake horsepower and average miles per gallon.

Basket

Name	Quantity	Price
Luxury Yacht	1	£365,000
Warranty	1	£10,000
Audi Q5	1	£100,000

Total: £1375000

Drop here to add to basket.

Customisation:

The screenshot shows a web application for vehicle customisation. At the top, there is a navigation bar with links for Home, Products, Customise Vehicles, Contact Us, About Us, and DEMO. The 'Customise Vehicles' link is highlighted.

Select your vehicle:

Please select a vehicle in order to start the customisation process:

Lamborghini Centenario Price: £1,000,000	Audi S5 Price: £1,000,000	Audi Q5 Price: £1,000,000	BMW G11 Price: £1,000,000
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Customise:

Make the adjustments to your vehicle below.

Vehicle Colour:

Brush Colour:

Brush Width:

Customise:

Make the adjustments to your vehicle below.

Vehicle Colour: Blue

Brush Colour:

Brush Width:

Add to Basket:

Once you are happy with your customisation, add the vehicle to your basket using the button below. You can customise any vehicle for a fixed price.

Cost: £1,000,000

Basket

Name	Quantity	Price
Luxury Yacht	1	£65000
Warranty	1	£10000
Audi Q5	1	£1000000

Total: £1375000

Drop here to add to basket.

Basket

Name	Quantity	Price
Luxury Yacht	1	£65000
Warranty	1	£10000
Audi Q5	1	£1000000

Total: £1375000

Drop here to add to basket.

Contact Us:

The screenshot shows a web browser window with the URL danielturner.azurewebsites.net/contact.html. The page features a dark header with the CTS logo and navigation links for Home, Products, Customise Vehicles, Contact Us, About Us, and DEMO. The Contact Us section is highlighted. Below the header, there's a "Contact Us:" heading and a message telling users to use the information below to get in touch. It provides a phone number (0800 2364837) and an email address (contact@customtransportlincoln.com). A "Find us:" section includes a Google Map of Lincoln showing the location at 150 Dixon Street. The map also highlights nearby landmarks like KFC and the Golden Eagle pub. Below the map is a contact form with fields for Name, Email Address, and Comment, followed by a Send button.

Contact Us:

Use the information below in order to get in touch with us:

Phone: 0800 2364837

Email: contact@customtransportlincoln.com

Find us:

Address: 150 Dixon Street, Lincoln, LN5 8AR.

150 Dixon St
150 Dixon St, Lincoln LN5 8AR, UK

Directions Save

View larger map

Boultham Ave

Brancaster Dr

Church Dr

Greaves Dr

Marlida Rd

Mill Ln

Princess St

Pennell St

Priory St

Score St

Sibthorpe St

Vernon St

Westgate

Wilberforce St

Wheeler St

KFC

Golden Eagle

Botolph's Cres

Henley St

Little Bargate

St Mary's Dike

©2017 Google - Map data ©2017 Google Terms of Use Report a map error

Name:*

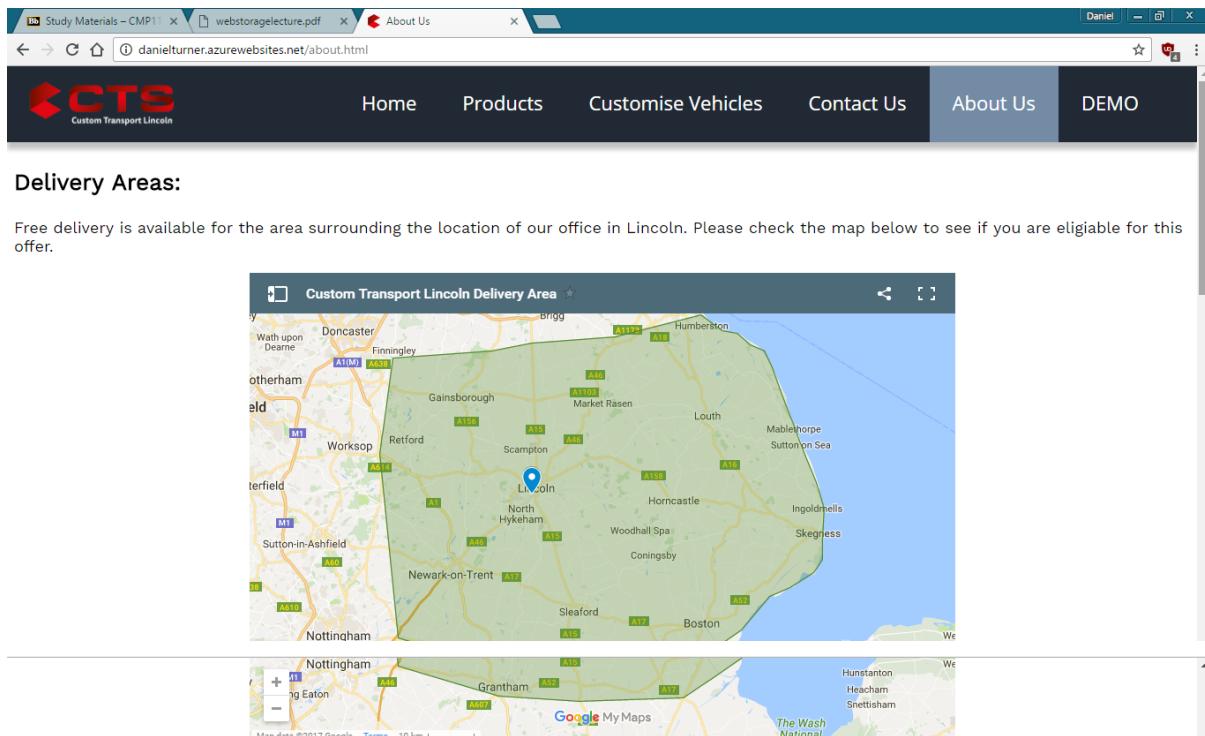
Email Address:*

Comment:*

Send

CMP1130M Web Authoring Assessment Item 2.b

About:



The screenshot shows a map titled "Custom Transport Lincoln Delivery Area" centered on Lincoln. The delivery area is highlighted in green and covers a large region in the East Midlands and North East of England, including cities like Doncaster, Worksop, Newark-on-Trent, Grantham, Louth, Boston, and Skegness. Major roads like the M1, A1, A15, and A16 are labeled. A blue marker indicates the company's office location in Lincoln. The map also shows the coastline of The Wash National Park.

Deliveries outside of this range but within the United Kingdom* will have a £20.00 delivery fee.

Shipping outside of the United Kingdom will have a fixed £60.00 delivery fee.

Upon purchase of your vehicle, you will be notified of the expected delivery date. This will be anywhere between 1 to 6 weeks at the time of placing the order.

*The United Kingdom includes: England, Scotland, Wales and Northern Ireland.

Operating Hours

Day	Time
Monday	10:00 - 18:00
Tuesday	10:00 - 18:00
Wednesday	09:00 - 18:00
Thursday	09:00 - 18:00
Friday	11:00 - 16:00
Saturday	Closed
Sunday	Closed

Testimonials



I previously bought a fully customised Audi from Custom Transport Lincoln. It arrived quickly and was fully suited to my specifications. I would recommend to anyone who wants a fully customised vehicle.



Being able to fully customise a vehicle is an amazing idea. This website made it quick and easy to create my dream vehicle. Now, I'm completely unique.



This website made it pain-free to create a highly customised vehicle. The company is very friendly and have provided us with an easy-to-use website to create our special vehicle.

Internet Explorer:

Home:

The screenshot shows a Microsoft Internet Explorer browser window with the following details:

- Title Bar:** C:\Users\Daniel\Documents\Lincoln Uni\Year 1\Web / Home Page
- Address Bar:** C:\Users\Daniel\Documents\Lincoln Uni\Year 1\Web / Home Page
- Header:** CTS Custom Transport Lincoln
- Navigation:** Home, Products, Customise Vehicles, Contact Us, About Us, DEMO
- Content Area:**
 - Welcome to Custom Transport Lincoln,** followed by a paragraph about the company's services.
 - Have a look at some of our products:** This section features three images:
 - A silver BMW M4 GTS.
 - A black Sikorsky S-76C+ helicopter on a tarmac with the text "IT'S HERE" overlaid.
 - A red and white custom sports car with "Available Services" text overlaid.

Products:

Vehicles:

See our wide selection of vehicles below:

			
BMW M5 Price: £128,000	Audi R8 Price: £89,000	Ford GT Price: £247,000	Mercedes C220D Price: £120,500
			

			
Sikorsky PaveLow Price: £456,000	Raven II Price: £230,500	Sikorsky Skycrane Price: £855,000	Bell 206 Price: £225,999

Promotions:

From time to time, limited-time promotions are available for certain vehicles and services. See those below:



Services:

We also offer services with our vehicles in order to provide security and peace of mind.

Warranty

To ensure that your purchased vehicle performs at its best for as long as possible. A 3-year warranty is available for purchase that will cover all minor damage that can occur to your vehicle. Excessive damage that causes the vehicle to be written-off will not be covered by this warranty.

Price: £10,000

[Drag to Basket](#)

Tracking Device

A tracking device can be fitted to your car so that it can be located at all times. This is useful for recovering a lost vehicle and ensuring that your investment in our company was not wasted.

Price: £5,000

[Drag to Basket](#)

Performance Evaluation

During the collection process of your vehicle, it can undertake a performance evaluation. This will provide detailed information on the health of your car such as available brake horsepower and average miles per gallon.

Basket

Name	Quantity	Price
Total: £0		

Drop here to add to basket.

Basket

Name	Quantity	Price
Total: £0		

Drop here to add to basket.

Basket

Name	Quantity	Price
Total: £0		

Drop here to add to basket.

Customisation:

Select your vehicle:

Please select a vehicle in order to start the customisation process or drag the vehicle to the basket to purchase the vehicle with no customisation options:

Lamborghini Centenario Price: £799,999	Audi S5 Price: £546,000	Audi Q5 Price: £600,000	BMW G11 Price: £745,000
---	----------------------------	----------------------------	----------------------------

Customise:

Make the adjustments to your vehicle below.

Vehicle Colour:

Brush Colour:

Brush Width:

Add to Basket:

Once you are happy with your customisation, add the vehicle to your basket using the button below. You can customise any vehicle for a fixed price.

Cost: £1,000,000

Basket

Name	Quantity	Price
Total: £0		

Drop here to add to basket.

Drag to Basket

Contact Us:

The screenshot shows a web browser window for the 'Contact Us' page of the Custom Transport Lincoln website. The header includes the CTS logo, navigation links for Home, Products, Customise Vehicles, Contact Us, About Us, and DEMO, and a search bar. The main content area has a heading 'Contact Us:' and a sub-section 'Find us:' with a map showing the location of 150 Dixon Street, Lincoln. Below the map is a contact form with fields for Name, Email Address, Comment, and a Send button.

Contact Us:

Use the information below in order to get in contact with us:

Phone: 0800 2364837

Email: contact@customtransportlincoln.com

Find us:

Address: 150 Dixon Street, Lincoln, LN5 8AR.

Map showing the location of 150 Dixon Street, Lincoln, LN5 8AR, UK. The map highlights the street address and surrounding landmarks like KFC and the Golden Eagle pub.

Additionally, you can use the contact form below:

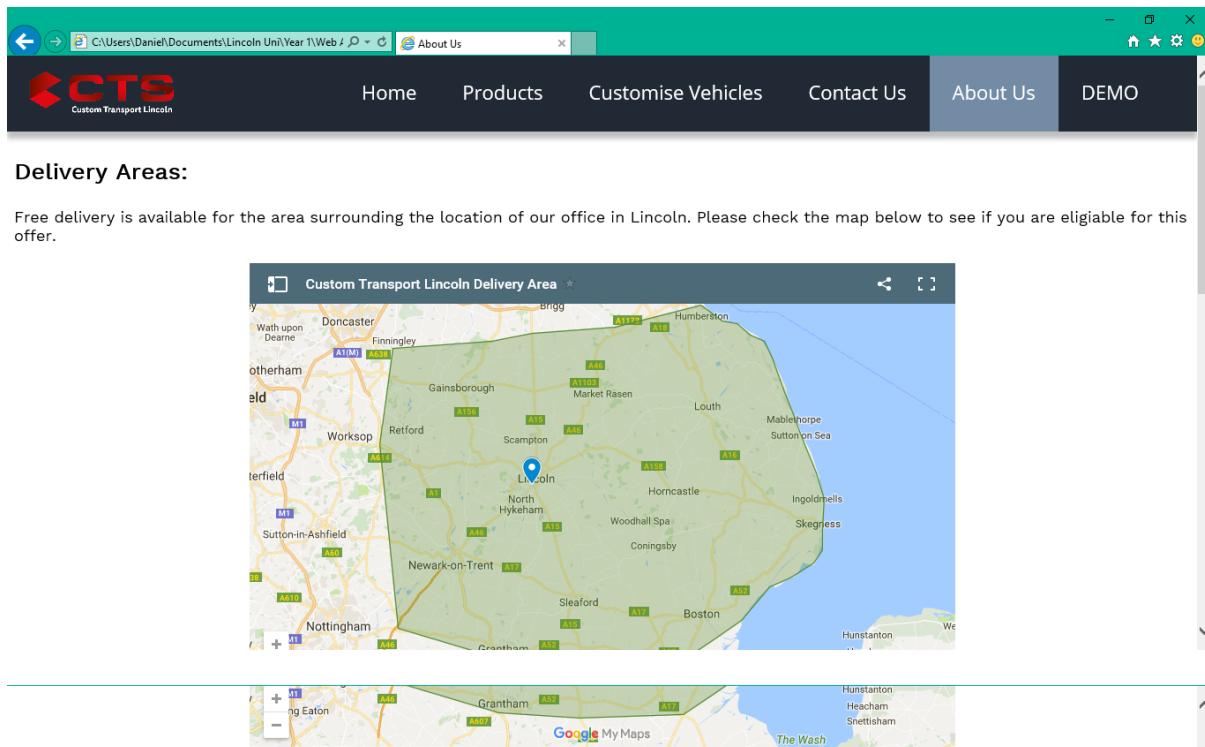
Name:*

Email Address:*

Comment:*

Send

About:



The screenshot shows a web browser window for 'Custom Transport Lincoln'. The navigation bar includes links for Home, Products, Customise Vehicles, Contact Us, About Us, and DEMO. The 'About Us' page content starts with a section titled 'Delivery Areas:' which states: 'Free delivery is available for the area surrounding the location of our office in Lincoln. Please check the map below to see if you are eligible for this offer.' Below this is a large map titled 'Custom Transport Lincoln Delivery Area' showing a green-shaded region covering parts of Lincolnshire, Nottinghamshire, and Derbyshire. The map includes major roads like the M1, A1, and A15, and towns such as Doncaster, Worksop, Newark-on-Trent, Grantham, Boston, and Skegness. A blue marker indicates the company's location in Lincoln.

Deliveries outside of this range but within the United Kingdom* will have a £20.00 delivery fee.

Shipping outside of the United Kingdom will have a fixed £60.00 delivery fee.

Upon purchase of your vehicle, you will be notified of the expected delivery date. This will be anywhere between 1 to 6 weeks at the time of placing the order.

*The United Kingdom includes: England, Scotland, Wales and Northern Ireland.

Operating Hours

Day	Time
Monday	10:00 - 18:00
Tuesday	10:00 - 18:00
Wednesday	09:00 - 18:00
Thursday	09:00 - 18:00
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Saturday	Closed
Sunday	Closed

Testimonials



I previously bought a fully customised Audi from Custom Transport Lincoln. It arrived quickly and was fully suited to my specifications. I would recommend to anyone who wants a fully customised vehicle.



Being able to fully customise a vehicle is an amazing idea. This website made it quick and easy to create my dream vehicle. Now, I'm completely unique.



This website made it pain-free to create a highly-customised vehicle. The company is very friendly and have provided us with an easy-to-use website to create our special vehicle.

Mozilla Firefox:

Home:

The screenshot shows a Mozilla Firefox browser window displaying the 'Custom Transport Lincoln' website. The page has a dark header bar with the CTS logo and navigation links for Home, Products, Customise Vehicles, Contact Us, About Us, and DEMO. Below the header, a main content area features a welcome message, a paragraph about the company's services, and a section titled 'Have a look at some of our products:' with three images: a silver BMW M6, a blurred image of a car in motion, and a red sports car with 'Available Services' text overlaid.

Welcome to Custom Transport Lincoln,

We are the UK's leading custom transport company. Based in Lincoln, we are capable of providing custom designs and fittings to various types of vehicles which can be shipped across the world right to your doorstep. Many of the world's modern vehicles can be customised. This includes: cars, boats and helicopters with much more variety to be available in the coming months. We also provide the option for customers to purchase our selection of vehicles without modification for a cheaper price. However, turning the stock vehicle into your very own custom vehicle can be done quickly and easily with our online customisation tool.

Have a look at some of our products:

CMP1130M Web Authoring Assessment Item 2.b

Products:

Screenshot of a web browser showing a website for 'Custom Transport Lincoln' (CTS). The page displays a grid of vehicle images and their details. A 'Basket' sidebar shows items added to the cart.

Vehicles:

See our wide selection of vehicles below:

BMW M5 Price: £128,000	Audi R8 Price: £89,000	Ford GT Price: £247,000	Mercedes C220D Price: £120,500

Basket

Name	Quantity	Price
Mercedes C220D	1	120500
Warranty	1	10000
Custom Vehicle	1	1000000

Total: £1130500

Drop here to add to basket.

Screenshot of a web browser showing a website for 'Custom Transport Lincoln' (CTS). The page displays a grid of helicopter images and their details. A 'Basket' sidebar shows items added to the cart.

Sikorsky PaveLow Price: £456,000	Raven II Price: £230,500	Sikorsky Skycrane Price: £855,000	Bell 206 Price: £225,999

Basket

Name	Quantity	Price
Mercedes C220D	1	120500
Warranty	1	10000
Custom Vehicle	1	1000000

Total: £1130500

Drop here to add to basket.

Promotions:

From time to time, limited-time promotions are available for certain vehicles and services. See those below:

Screenshot of a web browser showing a website for 'Custom Transport Lincoln' (CTS). The page displays a grid of vehicle images. A 'Basket' sidebar shows items added to the cart.

--	--	--	--

Basket

Name	Quantity	Price
Mercedes C220D	1	120500
Warranty	1	10000
Custom Vehicle	1	1000000

Total: £1130500

Drop here to add to basket.

Services:

We also offer services with our vehicles in order to provide security and peace of mind.

Warranty

To ensure that your purchased vehicle performs at its best for as long as possible. A 3-year warranty is available for purchase that will cover all minor damage that can occur to your vehicle. Excessive damage that causes the vehicle to be written-off will not be covered by this warranty.

Price: £10,000

Drag to Basket

Tracking Device

A tracking device can be fitted to your car so that it can be located at all times. This is useful for recovering a lost vehicle and ensuring that your investment in our company was not wasted.

Price: £5,000

Drag to Basket

Performance Evaluation

During the collection process of your vehicle, it can undertake a performance evaluation. This will provide

Screenshot of a web browser showing a website for 'Custom Transport Lincoln' (CTS). The page displays a grid of vehicle images. A 'Basket' sidebar shows items added to the cart.

--	--	--	--

Basket

Name	Quantity	Price
Mercedes C220D	1	120500
Warranty	1	10000
Custom Vehicle	1	1000000

Total: £1130500

Drop here to add to basket.

CMP1130M Web Authoring Assessment Item 2.b

Customisation:

The screenshot shows a web-based vehicle customization application. At the top, a navigation bar features the 'Customise Vehicles' logo, followed by links for Home, Products, Customise Vehicles (which is highlighted in blue), Contact Us, About Us, and DEMO. Below the navigation is a sidebar with the heading 'Select your vehicle:' and a message instructing users to select a vehicle or drag it to the basket. Four car thumbnails are displayed: Lamborghini Centenario (Price: £799,999), Audi S5 (Price: £546,000), Audi Q5 (Price: £600,000), and BMW G11 (Price: £745,000). To the right, a sidebar titled 'Basket' shows a table of items: Mercedes C220D (Quantity 1, Price 120500), Warranty (Quantity 1, Price 10000), and Custom Vehicle (Quantity 1, Price 1000000). The total value is listed as £1130500. A message at the bottom of the sidebar says 'Drop here to add to basket.'

Select your vehicle:

Please select a vehicle in order to start the customisation process or drag the vehicle to the basket to purchase the vehicle with no customisation options:

Lamborghini Centenario
Price: £799,999

Audi S5
Price: £546,000

Audi Q5
Price: £600,000

BMW G11
Price: £745,000

Basket

Name	Quantity	Price
Mercedes C220D	1	120500
Warranty	1	10000
Custom Vehicle	1	1000000

Total: £1130500

Drop here to add to basket.

Customise:

Make the adjustments to your vehicle below.

Vehicle Colour: Blue

Brush Colour:

Brush Width:

Add to Basket:

Once you are happy with your customisation, add the vehicle to your basket using the button below. You can customise any vehicle for a fixed price.

Cost: £1,000,000

Basket

Name	Quantity	Price
Mercedes C220D	1	120500
Warranty	1	10000
Custom Vehicle	1	1000000

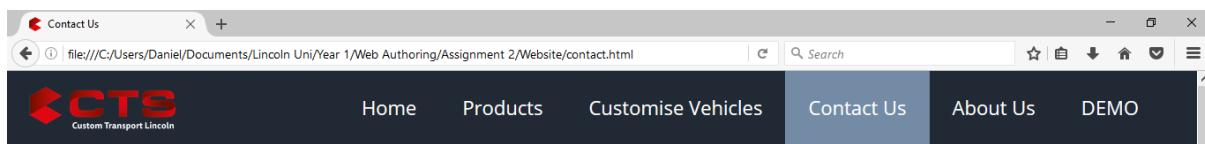
Total: £1130500

Drop here to add to basket.

Drag to Basket

CMP1130M Web Authoring Assessment Item 2.b

Contact Us:



Contact Us:

Use the information below in order to get in contact with us:

Phone: 0800 2364837

Email: contact@customtransportlincoln.com

Find us:

Address: 150 Dixon Street, Lincoln, LN5 8AR.



Additionally, you can use the contact form below:

Name:*

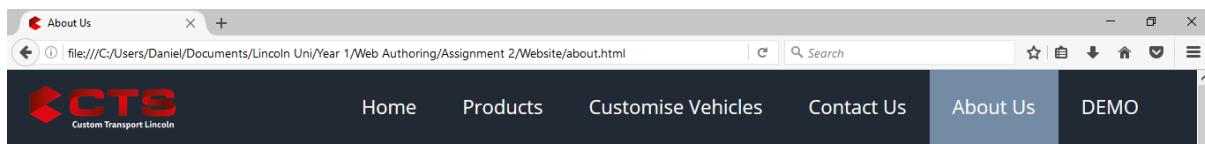
Email Address:*

Comment:*

Send

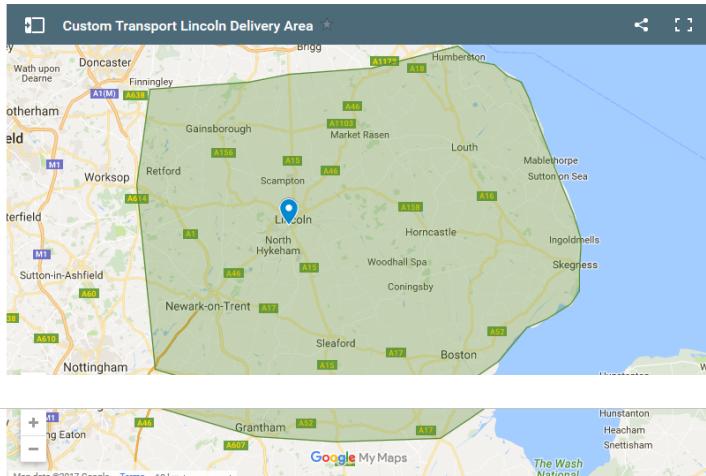
CMP1130M Web Authoring Assessment Item 2.b

About:



Delivery Areas:

Free delivery is available for the area surrounding the location of our office in Lincoln. Please check the map below to see if you are eligible for this offer.



Deliveries outside of this range but within the United Kingdom* will have a £20.00 delivery fee.

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This website made it pain-free to create a highly-customised vehicle. The company is very friendly and have provided us with an easy-to-use website to create our special vehicle.

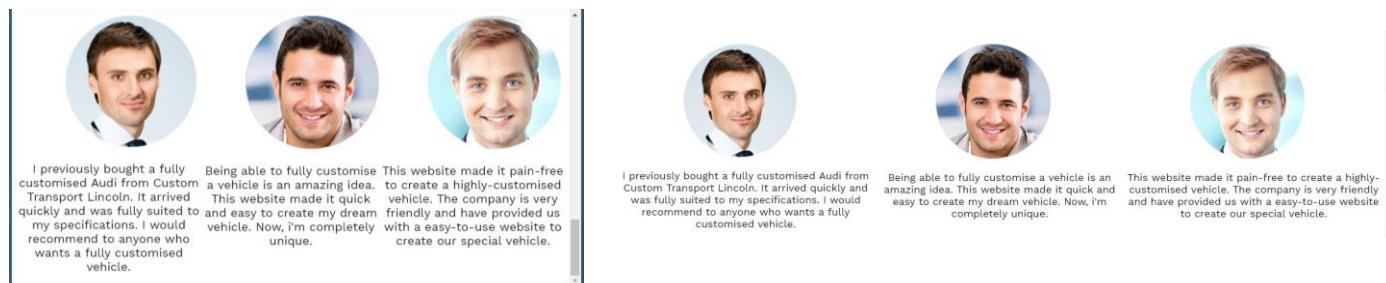
Interoperability explained:

Using popular browsers: Google Chrome, Internet Explorer and Mozilla Firefox. Each page was displayed correctly. No noticeable changes can be spotted and all JavaScript functionality is maintained. This was achieved through continuous testing during development.

The main challenge throughout development was compensating for the different implementations of code for each browser. For example, the transition CSS property is not supported by all browser versions. To overcome this challenge, webkits were used to provide the functionality to the other web browsers.

```
nav li a{  
    display: inline-block; /* created as  
    color: #FFFFFF;  
    text-align: center;  
    padding: 42px 26px 30px 26px;  
    text-decoration: none; /* required */  
    -o-transition: 0.5s;  
    -ms-transition: 0.5s;  
    -moz-transition: 0.5s;  
    -webkit-transition: 0.5s;  
    transition: 0.5s;
```

Various screen sizes also needed to be considered during development. Since “smartphones are now responsible for a third of internet access” (Hern, 2016), the website needs to be suitable for different screens. To ensure that the website would look appropriate, an adjustable layout was used. This involved the implementation of flexboxes and defining sizes using percentages.



Interoperability Improvements:

Improvements could be made by utilising media queries or using web Application Programming Interfaces (API). Media queries would allow for the webpage to be adjusted based on screen size. However, media queries are not supported by certain legacy browsers which could impact usage. It is also possible to use web APIs to provide a responsive website. However, they can have a negative impact on performance since they use large CSS libraries.

W3C Validation:

Home:

The screenshot shows a browser window with multiple tabs open. The active tab is titled "Showing results for" and displays the "Nu Html Checker" interface. The page content is as follows:

Nu Html Checker

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

Showing results for index.html

1. **Warning** Consider using the `<h1>` element as a top-level heading only (all `<h1>` elements are treated as top-level headings by many screen readers and other tools).
From line 44, column 3; to line 44, column 6
`<action><h1>Welcom`

2. **Warning** Consider using the `<h1>` element as a top-level heading only (all `<h1>` elements are treated as top-level headings by many screen readers and other tools).
From line 52, column 4; to line 52, column 7
`<ction><h1>Have a`

3. **Warning** Section lacks heading. Consider using `<h2>-<h6>` elements to add identifying headings to all sections.
From line 68, column 2; to line 68, column 10
`<nner><section><d1`

4. **Warning** Article lacks heading. Consider using `<h2>-<h6>` elements to add identifying headings to all articles.
From line 41, column 1; to line 41, column 9
`<bar><article><!--`

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Products:

The screenshot shows a browser window with the Nu Html Checker tool open. The URL is https://validator.w3.org/nu/#file. The page displays several error and warning messages from the W3C CSS Validator results. The errors are related to the `field` attribute being used on `th` elements, which is not allowed. The warnings are related to using `h1` elements as top-level headings. The code snippets shown include parts of an HTML table and some `p` elements.

1. **Error** Attribute `field` not allowed on element `th` at this point.
From line 51, column 10; to line 52, column 42
`<tr><th field="name" class="basketname">Name</th>`
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.
2. **Error** Attribute `field` not allowed on element `th` at this point.
From line 52, column 52; to line 53, column 45
`<th field="quantity" class="basketqty">Quant`
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.
4. **Warning** Consider using the `h1` element as a top-level heading only (all `h1` elements are treated as top-level headings by many screen readers and other tools).
From line 67, column 3; to line 67, column 6
`<h1>Vehicl`
5. **Error** Attribute `data` not allowed on element `p` at this point.
From line 76, column 8; to line 76, column 38
`<p class="title" data="128000">BMW M5`
Attributes for element `p`:
[Global attributes](#)
17. **Warning** Consider using the `h1` element as a top-level heading only (all `h1` elements are treated as top-level headings by many screen readers and other tools).
From line 188, column 4; to line 188, column 7
`<h1>Promot`
26. **Warning** Article lacks heading. Consider using `h2`-`h6` elements to add identifying headings to all articles.
From line 64, column 1; to line 64, column 9
`<sket --><article><!--`

Omitted duplicate errors.

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Customise:

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

Showing results for `customise.html`

1. **Error** Attribute `field` not allowed on element `th` at this point.
From line 51, column 10; to line 52, column 42
`<tr><th field="name" class="basketname">Name</th>`
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).

4. **Warning** Consider using the `h1` element as a top-level heading only (all `h1` elements are treated as top-level headings by many screen readers and other tools).
From line 67, column 3; to line 67, column 6
`<action><h1>Vehicl`

17. **Warning** Consider using the `h1` element as a top-level heading only (all `h1` elements are treated as top-level headings by many screen readers and other tools).
From line 188, column 4; to line 188, column 7
`<action><h1>Promot`

22. **Warning** Consider using the `h1` element as a top-level heading only (all `h1` elements are treated as top-level headings by many screen readers and other tools).
From line 237, column 3; to line 237, column 6
`vices"><h1>Servic`

26. **Warning** Article lacks heading. Consider using `h2-h6` elements to add identifying headings to all articles.
From line 64, column 1; to line 64, column 9
`sket --><article><!--`

Omitted duplicate errors.

Contact Us:

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

Showing results for `contact.html`

1. **Warning** Consider using the `h1` element as a top-level heading only (all `h1` elements are treated as top-level headings by many screen readers and other tools).
From line 39, column 3; to line 39, column 6
`<action><h1>Contac`

2. **Warning** Consider using the `h1` element as a top-level heading only (all `h1` elements are treated as top-level headings by many screen readers and other tools).
From line 49, column 4; to line 49, column 7
`<action><h1>Find u`

3. **Warning** Consider using the `h1` element as a top-level heading only (all `h1` elements are treated as top-level headings by many screen readers and other tools).
From line 61, column 3; to line 61, column 6
`<action><h1>Additi`

4. **Warning** Article lacks heading. Consider using `h2-h6` elements to add identifying headings to all articles.
From line 36, column 1; to line 36, column 9
`bar --><article><!--`

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About:

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

Showing results for about.html

1. **Warning** Consider using the `<h1>` element as a top-level heading only (all `<h1>` elements are treated as top-level headings by many screen readers and other tools).
From line 40, column 3; to line 40, column 6
`<action>... <h1>Delive`
2. **Warning** Consider using the `<h1>` element as a top-level heading only (all `<h1>` elements are treated as top-level headings by many screen readers and other tools).
From line 53, column 4; to line 53, column 7
`<action>... <h1>Operat`
3. **Warning** Consider using the `<h1>` element as a top-level heading only (all `<h1>` elements are treated as top-level headings by many screen readers and other tools).
From line 96, column 3; to line 96, column 6
`<action>... <h1>Testim`
4. **Warning** Article lacks heading. Consider using `<h2>-<h6>` elements to add identifying headings to all articles.
From line 37, column 1; to line 37, column 9
`Bar --><article>... <!--`

CSS:

W3C CSS Validator results for layout.css (CSS level 3)

Congratulations! No Error Found.

This document validates as [CSS level 3](#)!

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates. Here is the XHTML you could use to add this icon to your Web page:

```
<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    <img alt="Valid CSS!" />
  </a>
</p>
```



```
<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    <img alt="Valid CSS!" />
  </a>
</p>
```

(close the img tag with > instead of /> if using HTML <= 4.01)

The W3C validators rely on community support for hosting and development.
[Donate](#) and help us build better tools for a better web.

5993 Flattr

W3C Validation Errors:

The W3C validator allows websites to be compared against the W3C web standards. The results can be used to see areas of the website that need to be improved.

The initial validation of the HTML produced various issues. These included: use of deprecated attributes and limited usage of the alt attribute. Issues with deprecated attributes were solved by utilising the new CSS3 properties. For example: `text-align` instead of `align`. The other issue was solved by adding the alt attribute to each image on the products and customisation page.

The CSS was also validated. One issue was present which involved not including the units with a value. This was fixed by adding 'px' to the end of the values where it was missing.

However, there are still errors that are unable to be fixed. This is because changes to these would break main parts of the functionality. These issues include: using the field attribute to create table headers and using the data attribute on paragraphs.

Using the field attribute is required to name the datagrid headers correctly. Using the data attribute is required for the prices of individual items to be known. To maintain functionality, W3C standards must be ignored.

Best Practices:

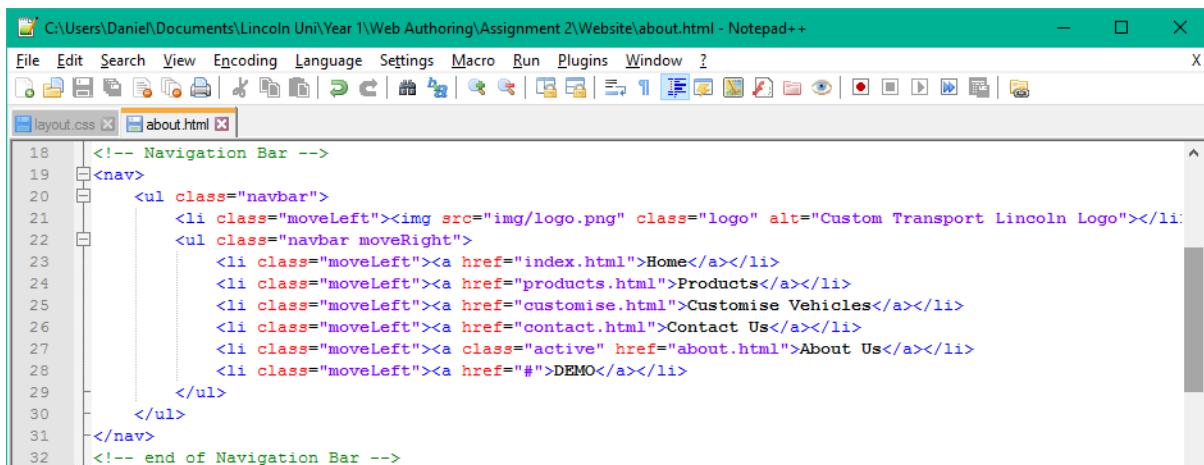
By utilising best practices, website development and maintenance becomes easier. Techniques are demonstrated below.

Websites are made up various types of files including: HTML files, images, JavaScript, etc. To allow these files to be located easily, a good file structure should be used. This includes utilising relevantly named folders to organise the files.

	Name	Date modified	Type	Size
	css	11/01/2017 11:20	File folder	
	img	11/01/2017 11:53	File folder	
	js	11/01/2017 11:20	File folder	
	about	11/01/2017 21:36	Chrome HTML Document	5 KB
	contact	11/01/2017 21:33	Chrome HTML Document	3 KB
	customise	11/01/2017 21:27	Chrome HTML Document	6 KB
	index	11/01/2017 20:47	Chrome HTML Document	3 KB
	products	11/01/2017 21:10	Chrome HTML Document	10 KB

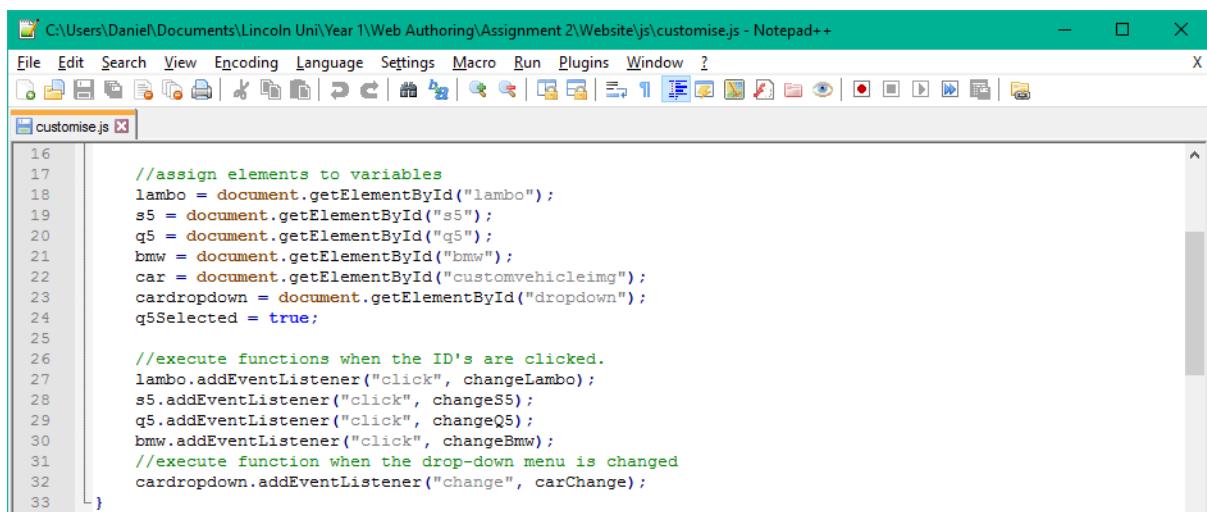
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These files contain large amounts of code. To make this easier to read, indentation is used. This helps show the code hierarchy. Thus, becoming easier to understand and maintain.



```
18  <!-- Navigation Bar -->
19  <nav>
20      <ul class="navbar">
21          <li class="moveLeft"></li>
22          <ul class="navbar moveRight">
23              <li class="moveLeft"><a href="index.html">Home</a></li>
24              <li class="moveLeft"><a href="products.html">Products</a></li>
25              <li class="moveLeft"><a href="customise.html">Customise Vehicles</a></li>
26              <li class="moveLeft"><a href="contact.html">Contact Us</a></li>
27              <li class="moveLeft" style="background-color: #ccc; color: black; font-weight: bold;"><a href="#" class="active">About Us</a></li>
28              <li class="moveLeft"><a href="#">DEMO</a></li>
29      </ul>
30  </nav>
31  <!-- end of Navigation Bar -->
```

Additionally, comments can be used to further aid readability. They are not interpreted by the browser and can help identify or explain certain sections of the code.



```
16  //assign elements to variables
17  lambo = document.getElementById("lambo");
18  s5 = document.getElementById("s5");
19  q5 = document.getElementById("q5");
20  bmw = document.getElementById("bmw");
21  car = document.getElementById("customvehicleimg");
22  cardropdown = document.getElementById("dropdown");
23  q5Selected = true;
24
25
26  //execute functions when the ID's are clicked.
27  lambo.addEventListener("click", changeLambo);
28  s5.addEventListener("click", changeS5);
29  q5.addEventListener("click", changeQ5);
30  bmw.addEventListener("click", changeBmw);
31  //execute function when the drop-down menu is changed
32  cardropdown.addEventListener("change", carChange);
33 }
```

References:

W3C (2016) *HTML 5.1 W3C Recommendation*. Available at:

<https://www.w3.org/TR/html51/introduction.html#html-vs-xhtml> (Accessed: 11 January 2017).

McNeil, J. (2001) 'Americans With Disabilities', *Household Economic Studies*, pg. 70–73.

Brotherton, C. (2014) *What is web accessibility, and why does it matter?* Available at:

<http://www.abrightclearweb.com/web-accessibility-matter/> (Accessed: 11 January 2017).

Mozilla (2015) *Using the W3C DOM*. Available at: https://developer.mozilla.org/en-US/docs/Using_Web_Standards_in_your_Web_Pages/Using_the_W3C_DOM (Accessed: 11 January 2017).

Hern, A. (2016) *Smartphone now most popular way to browse internet – Ofcom report*. Available at: <https://www.theguardian.com/technology/2015/aug/06/smartphones-most-popular-way-to-browse-internet-ofcom> (Accessed: 11 January 2017).