

# Coursework 2 Testing report

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CIS1110 Web design and development

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## Introduction

The aim of this report is to show the testing of the robot juice webpage. The document will provide a brief explanation of each type of test as well as a test plan for the website. It will also document the tests carried out in the key phases of the development of the website.

## Initial design

Below are four images for both the desktop layout and mobile layout designs for the robot juice website.

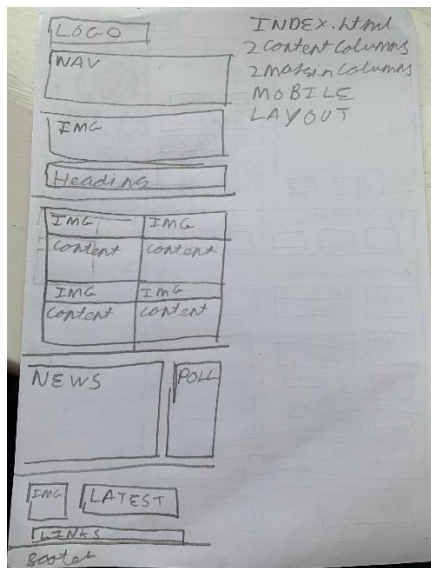


Figure 1 - Rough sketch of index page mobile layout

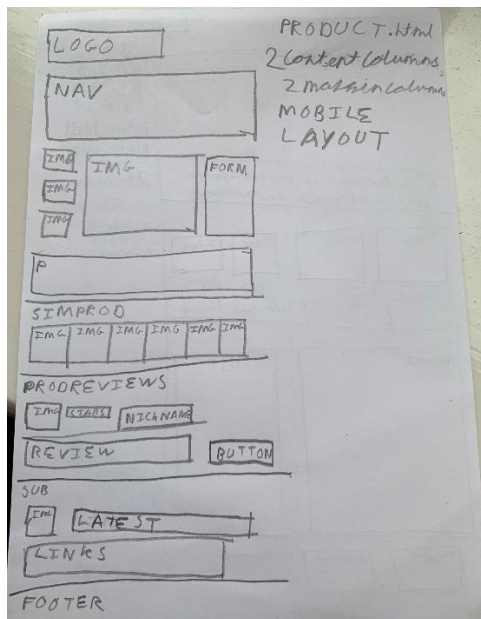


Figure 2 - Rough sketch of product page mobile layout

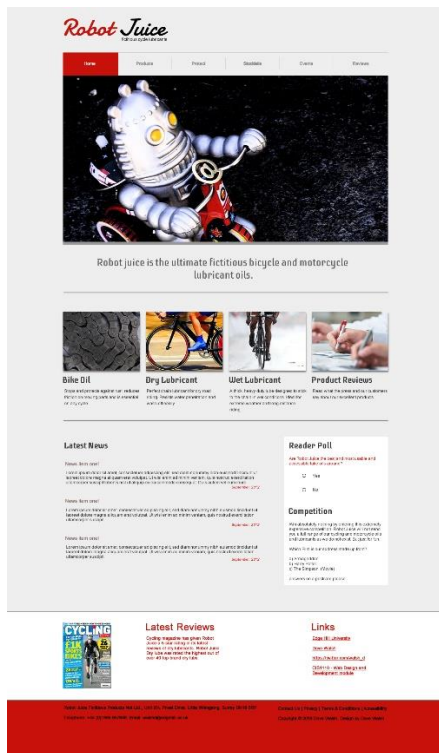


Figure 3 - index page desktop layout (Walsh, 2022)

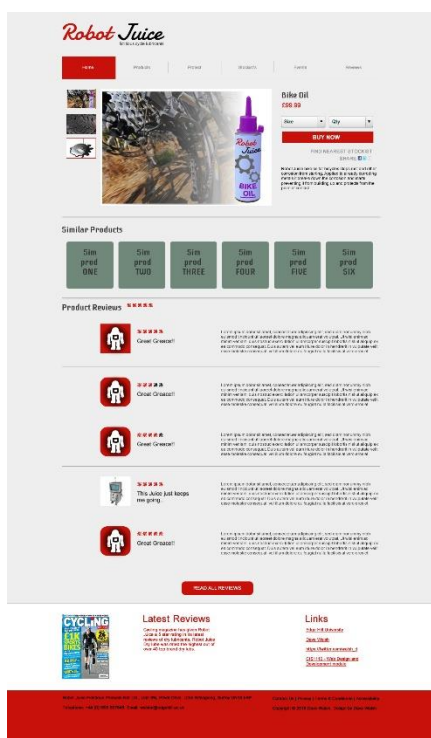


Figure 4 - product page desktop layout (Walsh, 2022)

## Test plan

To assess the success of a website it must undergo a variety of tests. For the robot juice website, it will have four different tests: browser testing, validation testing, user testing and build testing. The testing will consist of two different types of testing, iterative and terminal testing.

Iterative testing is testing that constantly repeats until the test is successful, whereas terminal testing tests the entire product to make sure it all functions correctly (BBC, 2023).

Below is an example table of how the testing will be documented throughout this report. The table will clearly explain what has been tested, what should happen, what happened when it was tested and any reflections. The table may be altered to fit within the different testing parameters but will follow the layout set below.

What is being tested?	Why is it being tested?	Expected outcome	Did it work? (Yes/No)	Actual outcome	Reflection / changes
A brief description of the part of the website being tested	The reason for testing this element on the website	What should happen during the test such as if the webpage loads		What happened when it was tested	Any changes made or things to learn from this test.

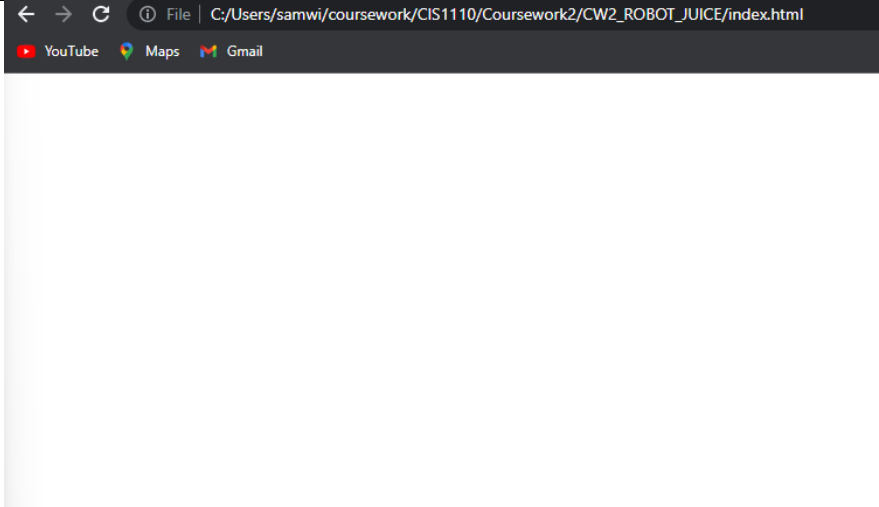
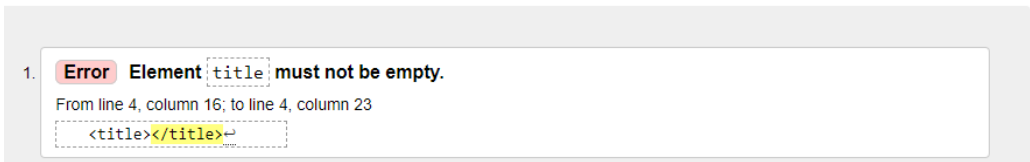
## Build testing.

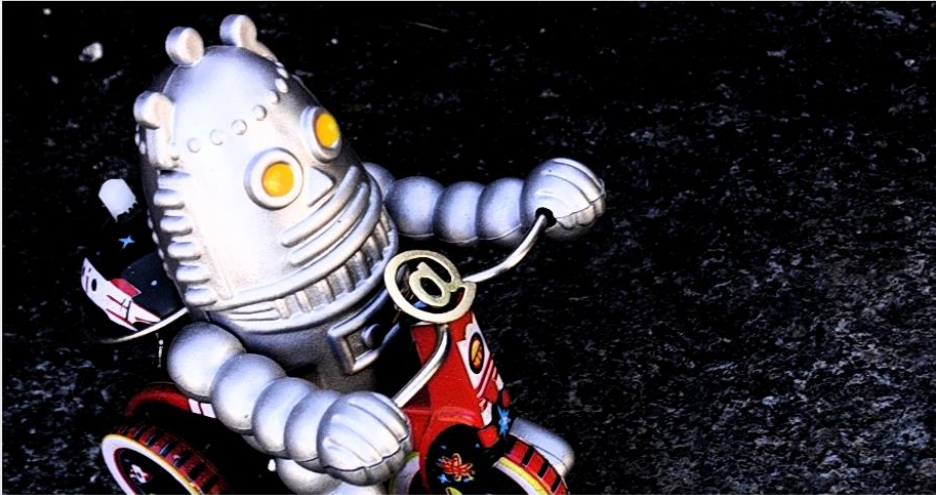

The purpose of the build testing is to iteratively test each component in the web site as it is being added and edited. The build testing primarily tests how each element has been implemented onto the page and will allow for any errors to be found early in the development instead of being at the end of the process. This should help reduce the number of potential errors found at the terminal testing phase.




### Index page




What is being tested?	Does the web page load
Why is it being tested?	To check if the page loads when opened
Expected outcome	Should display a blank page as no elements have been added to the html document
Did it work? (Yes/No)	Yes
Actual outcome	The web page shows a blank page as expected
Reflection / changes	No changes are needed



Evidence	 <p>Figure 5 - index page load test</p>
What is being tested?	Does the blank page validate
Why is it being tested?	This should check if the base code for the webpage works before more work is done on the html
Expected outcome	Should display a validated web site report
Did it work? (Yes/No)	No
Actual outcome	An error displayed for having no text in between the title tags
Reflection / changes	The only change made to the code was the addition of the title text Index page
Evidence	 <p>Figure 6 - validation results</p>
What is being tested?	Does the blank page validate
Why is it being tested?	This should check if the base code for the webpage works before more work is done on the html
Expected outcome	Should display a validated web site report
Did it work? (Yes/No)	Yes
Actual outcome	Validators display a valid website report




Reflection / changes	No changes were needed, the main reflection is to make sure no tags are left blank unnecessarily
Evidence	<div>Document checking completed. No errors or warnings to show.</div> <p>Used the HTML parser. Total execution time 30 milliseconds. <i>Figure 7 - validation result</i></p>
What is being tested?	If the web page loads the base content and images
Why is it being tested?	To check if the tags work correctly and that the images load
Expected outcome	Should display the basic elements of the webpage and images
Did it work? (Yes/No)	Yes
Actual outcome	Displays the images in the correct places and loads the content in the right place
Reflection / changes	As the tags are in the correct place the content will now be added to include headings and paragraphs before CSS styles are applied to the webpage
Evidence	<p><b>This is where the logo goes</b></p> <p>tag line</p> <p>navigation</p>  <p>first paragraph</p>  <p><i>Figure 8 – image content for index page</i></p>


What is being tested?	Content displays correctly as a column format with all content included
Why is it being tested?	To make sure that the content displays correctly before CSS styles are applied to the content
Expected outcome	Should display the content as shown in the provided index page image but in column format
Did it work? (Yes/No)	Yes
Actual outcome	Displays the content as expected with code in column format and in sections
Reflection / changes	As the code displays as intended the next step is to add styles to put the content into the correct positions for both a web layout and mobile layout.
Evidence	<p><b>Robot Juice</b></p> <p>fictitious cycle lubricants</p> <p><a href="#">Home</a> <a href="#">Products</a> <a href="#">Protect</a> <a href="#">Stocklist's</a> <a href="#">Events</a> <a href="#">Reviews</a></p>  <p>Robot juice is the ultimate fictitious bicycle and motorcycle lubricant oils.</p>  <p><b>Bike Oil</b></p> <p>Stops and protects against rust, reduces friction on moving parts and is essential on any cycle.</p>  <p><b>Dry Lubricant</b></p> <p>Perfect chain lubricant for dry road riding. Resists water penetration and wash-off easily.</p> <p><i>Figure 9 - content for index page</i></p>

	<div><h3>Wet Lubricant</h3><p>A thick, heavy duty lube designed to stick to the chain in wet conditions. Ideal for extreme weather and long distance riding.</p><h3>Product Reviews</h3><p>Read what the press and our customers say about our excellent products.</p><h3>Latest News</h3><p>News item one!</p><p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure.</p><p>September 2012</p><p>News item one!</p><p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure.</p><p>September 2012</p><p>News item one!</p><p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure.</p><p>September 2012</p><p>&gt; poll containing 1 question</p><h3>Latest Reviews</h3><p>Cycling magazine has given Robot Juice a 5 star rating in its latest reviews of dry lubricants. Robot Juice Dry Lube was rated the highest out of over 40 top brand dry lubs.</p><h3>Links</h3><p><a href="#">Edge Hill University Dave Walsh</a> <a href="https://twitter.com/walsh_d">https://twitter.com/walsh_d</a> <a href="#">CIS1110 - Web Design and Development module</a></p><p>Robot Juice Fictitious Products Not Ltd., Unit 9<sup>3</sup>/<sub>4</sub>, Privet Drive, Little Whingeing, Surrey DN18 5RP</p><p><a href="#">Contact Us</a>   <a href="#">Privacy</a>   <a href="#">Terms &amp; Conditions</a>   <a href="#">Accessibility</a></p><p>Telephone: +44(0)1695 657648. Email: <a href="mailto:walshd@edgehill.ac.uk">walshd@edgehill.ac.uk</a></p><p>Copyright © 2018 Dave Walsh. Design by Dave Walsh</p></div>
What is being tested?	Does the html correctly create a form with the appropriate content to create the reader poll
Why is it being tested?	To make sure that the html can correctly create the form and display the content
Expected outcome	Should display a form with two radio buttons with some content above and below
Did it work? (Yes/No)	Yes
Actual outcome	The code displayed correctly as intended by the html content
Reflection / changes	The code displayed in the top right corner so needs to be moved by the grid CSS.


Evidence	<p><b>Reader Poll</b></p> <p>Are Robot Juice the best and most usable and accessible fake oils around?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><b>Competition</b></p> <p>Win absolutely nothing by entering this extremely expensive competition. Robot Juice will not send you a full range of our cycling and motorcycle oils and lubricants as we do not exist. But just for fun.</p> <p>Which Film is our address made up from?</p> <p>1. Armageddon</p> <p>2. Harry Potter</p> <p>3. The Simpsons (Movie)</p> <p>answers on a postcard please</p> <p><i>Figure 10 - poll for index page</i></p>
What is being tested?	Does the header display the correct styles for the logo, nav and tagline.
Why is it being tested?	To make sure that the CSS is correctly displaying the styles for the header elements
Expected outcome	Robot Juice should have the font of Damion in size thirty pixels, along with the correct colours. The tagline and nav should have the correct font and size to match the style guide.
Did it work? (Yes/No)	Yes
Actual outcome	Displays the styles correctly as intended by the CSS code.
Reflection / changes	As these styles display correctly the next step is to add the styles for the rest of the index web page.

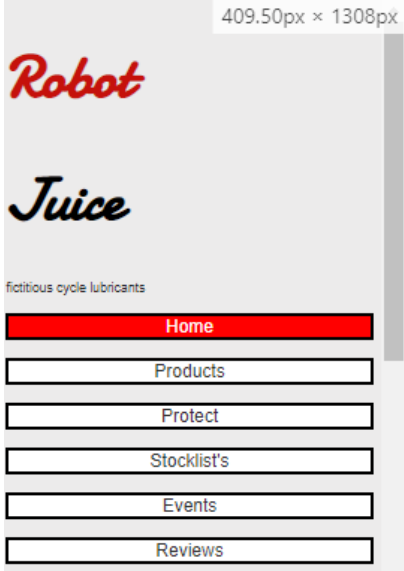
Evidence	 <p>Figure 11 - header styles</p>	
What is being tested?	The remaining web page styles for content and headers displays correctly on the web page	
Why is it being tested?	To make sure that the CSS code works correctly, and that the webpage can correctly display the styles for the HTML elements	
Expected outcome	Should display the section headers with the iceberg font in a grey like colour. The content should be an arial font	
Did it work? (Yes/No)	Yes	
Actual outcome	Section headers are displayed correctly in the correct font and colour scheme. The content is displayed correctly in the correct font.	
Reflection / changes	The main change would be to increase the font size for the elements to make the content more legible to the user.	

Evidence	<p><b>Bike Oil</b></p> <p>Stops and protects against rust, reduces friction on moving parts and is essential on any cycle.</p>  <p><b>Dry Lubricant</b></p> <p>Perfect chain lubricant for dry road riding. Resists water penetration and wash-off easily.</p>  <p><b>Wet Lubricant</b></p> <p>A thick, heavy duty lube designed to stick to the chain in wet conditions. Ideal for extreme weather and long distance riding.</p>  <p><b>Product Reviews</b></p> <p>Read what the press and our customers say about our excellent products.</p> <p><b>Latest News</b></p> <p><b>News item one!</b></p> <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure.</p> <p><i>Figure 12 - styles for index page content</i></p>
What is being tested?	Does the styles CSS code for the poll work
Why is it being tested?	To make sure that the CSS code can correctly format the poll to match the design
Expected outcome	The background should be displayed as white with the headings matching the section headings.
Did it work? (Yes/No)	Yes
Actual outcome	The code displays as intended and the code correctly moved the radio buttons to a more central location
Reflection / changes	The white background may extend further than necessary so may need changing.

Evidence	<div> <h3>Reader Poll</h3> <p>Are Robot Juice the best and most usable and accessible fake oils around?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <h3>Competition</h3> <p>Win absolutely nothing by entering this extremely expensive competition. Robot Juice will not send you a full range of our cycling and motorcycle oils and lubricants as we do not exist. But just for fun.</p> <p>Which Film is our address made up from?</p> <ol style="list-style-type: none"> <li>1. Armageddon</li> <li>2. Harry Potter</li> <li>3. The Simpsons (Movie)</li> </ol> <p>answers on a postcard please</p> </div> <p>Figure 13 - styles for poll</p>
What is being tested?	Links section styles are correctly applied
Why is it being tested?	To make sure that the correct styles are applied to the html correctly and that the CSS code is displayed correctly
Expected outcome	Should have a white background with a black top border, the text should be red.
Did it work? (Yes/No)	No
Actual outcome	The screen has correctly displayed the CSS however the links are still displayed as purple and not red
Reflection / changes	Html may need to be changed to allow for a colour change to the elements in the CSS.
Evidence	<div>  <div> <h4>Latest Reviews</h4> <p>Cycling magazine has given Robot Juice a 5 star rating in its latest reviews of dry lubricants. Robot Juice Dry Lube was rated the highest out of over 40 top brand dry lubs.</p> </div> <div> <h4>Links</h4> <p> <a href="#">Edge Hill University</a>  <a href="#">Dave Walsh</a>  <a href="https://twitter.com/walsh_d">https://twitter.com/walsh_d</a>  <a href="#">CIS1110 - Web Design and Development module</a> </p> </div> </div> <p>Figure 14 - styles for sub section</p>



What is being tested?	Links a has the correct colour
Why is it being tested?	To make sure that the changes made to the cod allow for a colour change
Expected outcome	Should have the links as red not purple
Did it work? (Yes/No)	Yes
Actual outcome	The screen has correctly displayed the a elements with the red colour instead of the purple
Reflection / changes	After discovering that the colour of a elements must be set with its own specific CSS code this can be implemented in future CSS development
Evidence	<p><b>Links</b></p> <p><a href="#">Edge Hill University</a></p> <p><a href="#">Dave Walsh</a></p> <p><a href="https://twitter.com/walsh_d">https://twitter.com/walsh_d</a></p> <p><a href="#">CIS1110 - Web Design and Development module</a></p> <p><i>Figure 15 - links styles</i></p>
What is being tested?	The styles for the footer section of the web page display correctly
Why is it being tested?	To make sure that the CSS code can correctly display the html elements as intended by the code.
Expected outcome	Should display the footer in a red background with the content written in the arial font.
Did it work? (Yes/No)	Yes
Actual outcome	The content is written in the correct font and the footer is displayed with a red background matching the colour of red used in the robot juice logo
Reflection / changes	the content needs to be in a larger font as the red background makes it hard to read in its small state
Evidence	 <p><i>Figure 16 - footer styles</i></p>
What is being tested?	Styles CSS code validation

Why is it being tested?	To assess whether the entire CSS file is correct the file must be validated to make sure it should run on all devices
Expected outcome	Should pass validation with no errors present
Did it work? (Yes/No)	Yes
Actual outcome	Code was successfully validated by the validator
Reflection / changes	No changes are needed to the file as it passed validation. The document can now be left as it is until after the CSS grid is created for the index page.
Evidence	<p>W3C CSS Validator results for style.css (CSS level 3 + SVG)</p> <p><b>Congratulations! No Error Found.</b></p> <p><i>Figure 17 - validator results</i></p>
<b>Mobile Layout</b>	
What is being tested?	Grid layout column and row layout and media query
Why is it being tested?	To make sure that the webpage can correctly implement the grid and row layout correctly when set at the correct screen size
Expected outcome	When the screen is less than 450pixels the grid and row layout should be created by the web page
Did it work? (Yes/No)	No
Actual outcome	The grid and row layout was created successfully by the webpage at the correct sizes. However, it was not present at the correct width
Reflection / changes	The media query statement was updated from min: width to max: width to fix the issue when page was tested
Evidence	 <p><i>Figure 18 – media query test</i></p>

What is being tested?	Media query
Why is it being tested?	To make sure that the changes made because of the last test work to correctly create the grid
Expected outcome	When the screen is less than 450pixels the grid and row layout should be created by the web page
Did it work? (Yes/No)	Yes
Actual outcome	The grid and row layout was created successfully by the webpage at the correct sizes and at the correct screen width
Reflection / changes	No changes were needed as test was successful however rows made need enlarging to fit all content


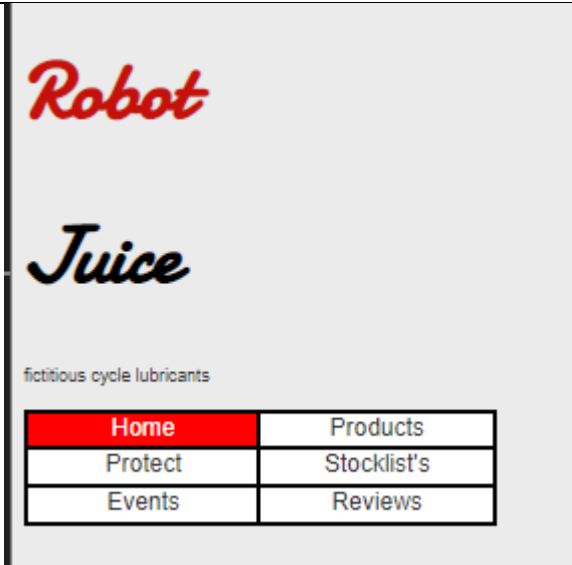
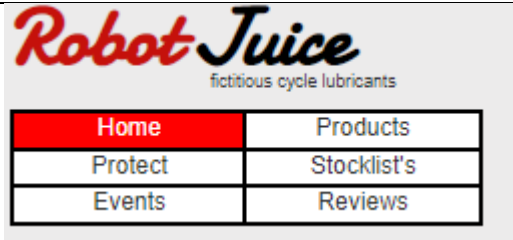



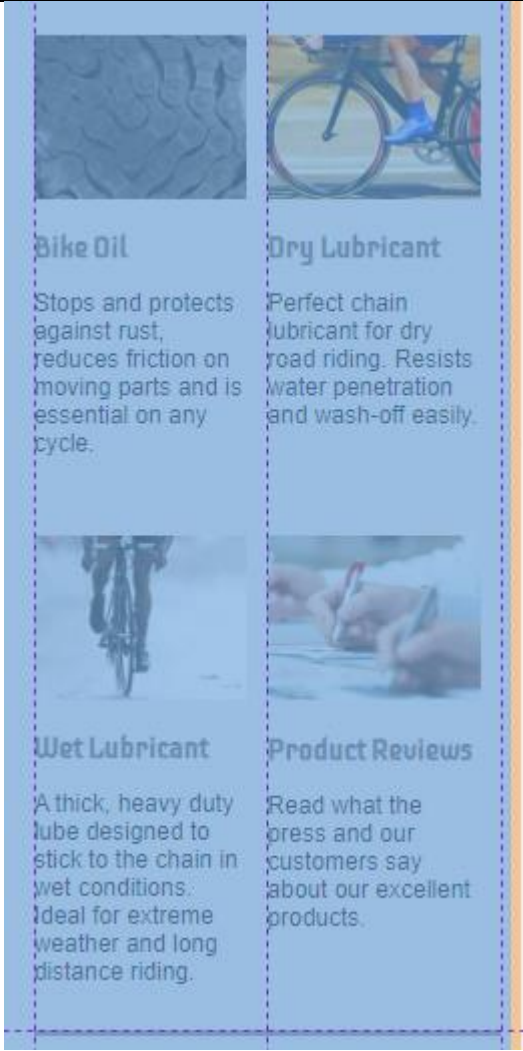
Evidence	 <p>The screenshot shows a mobile website layout for 'Robot Juice'. The header is a grid with navigation links: 'Home', 'About', 'Contact', 'Privacy', 'Terms', 'Accessibility', and 'RSS'. The main content area is divided into several sections: 'Read Poll' (Are Robot Juice the best and most usable and accessible take oils?), 'Latest Reviews' (Cycling magazine has given Robot Juice a 5 star rating in its ultimate guide to bicycle and motorcycle lubricant oils.), 'Links' (Edge Hill University, Dave Walsh, @dave_walsh_d, @S11110 - Web Design and Development module), 'Wet Lubricant' (A thick, heavy duty lube designed to stick to the chain in wet conditions. Ideal for extreme weather and long distance riding.), and 'Dry Lubricant' (Perfect chain lubricant for dry road riding. Resists water penetration and wash-off easily.). The footer contains contact information for Robot Juice Fictitious Products Not Ltd, Unit 9 1/4, Priory Drive, Little Wymondley, Surrey DN18 5RP, and copyright information for Dave Walsh, Design by Dave Walsh, Dry Lubricant.</p>
What is being tested?	Header grid layout
Why is it being tested?	The header will contain the logo and navigation elements and needs to be set correctly before the rest of the webpage grid is set up.
Expected outcome	The header should have the logo elements present; the navigation should be set as a table with two columns and three rows as per the mobile design.
Did it work? (Yes/No)	Yes
Actual outcome	The code correctly built the navigation and set the header in the correct row and column.

Figure 19 - media query test

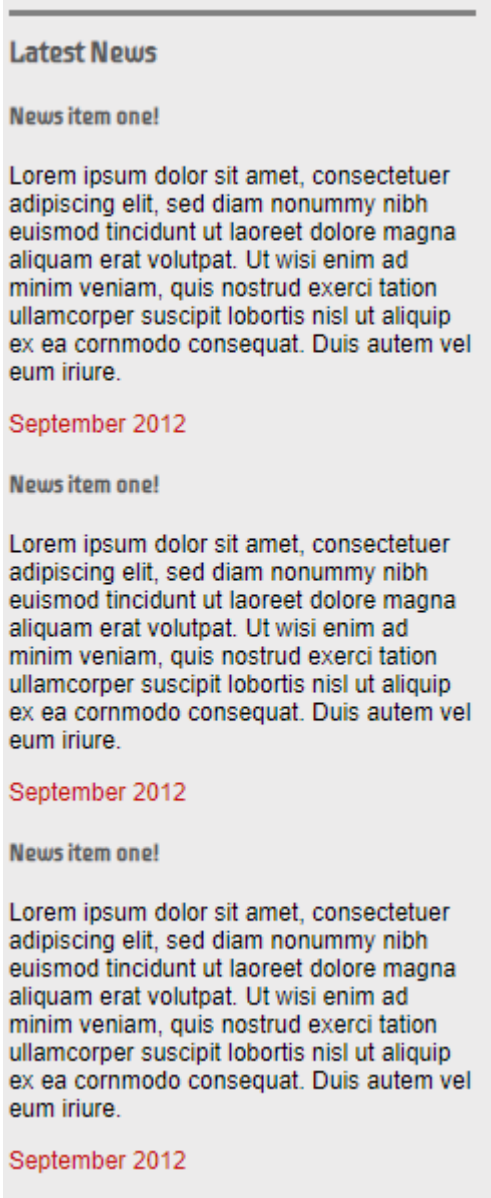
Reflection / changes	The logo will need to be built and the navigation may need moving and altering slightly to fit in below the logo
Evidence	 <p>Figure 20 - header grid layout</p>
What is being tested?	Logo is created correctly, and navigation elements fit in the header with the logo
Why is it being tested?	To make sure that the logo looks correct within the header element and to make sure that the finished navigation is correctly positioned within the header to fit both logo and nav without overlapping the row below.
Expected outcome	The logo should be in the top left corner with a small gap between it and the navigation. The navigation should sit below it on the webpage with a small gap between the bottom of the navigation and the bottom of the row.
Did it work? (Yes/No)	Yes
Actual outcome	The logo is in the correct position with a small gap between itself and the navigation bar below. The navigation sits just above the bottom of the row avoiding any potential overlap with the elements below
Reflection / changes	
Evidence	 <p>Figure 21 - header grid layout with correct logo</p>
What is being tested?	Banner grid layout with image spanning two columns and heading

Why is it being tested?	To make sure that the CSS runs correctly, and the grid positions the elements in the correct locations on the screen
Expected outcome	The image should span both columns with space underneath containing the heading.
Did it work? (Yes/No)	Yes
Actual outcome	The image correctly spanned the two columns, and the heading was positioned correctly.
Reflection / changes	The bottom of the row is further below the heading than first realised so the section could be made taller, or the row could be shortened.
Evidence	 <p>Robot juice is the ultimate fictitious bicycle and motorcycle lubricant oils.</p> <p><i>Figure 22 - banner grid layout</i></p>
What is being tested?	That the four images are correctly sized.
Why is it being tested?	To make sure that the four images fit within the two columns space with margin
Expected outcome	Each image should be no larger than 175 pixels with margin to fit within the two columns
Did it work? (Yes/No)	Yes
Actual outcome	The images were correctly sized by the code and should fit when applied to the grid layout
Reflection / changes	
Evidence	 <p><i>Figure 23 - image size test results</i></p>

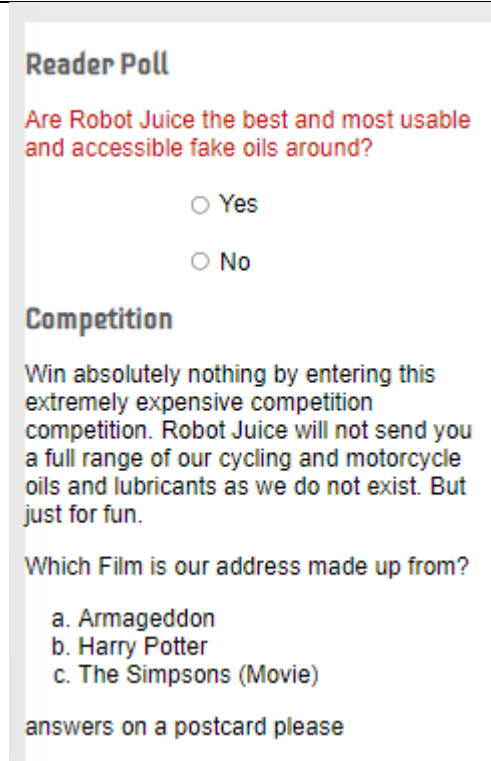
What is being tested?	That the four images and content are correctly sized within the images section
Why is it being tested?	To make sure that all content within the section fits correctly and does not take up too much of the webpage
Expected outcome	The images and content should take up a square like shape with an image above its content and contained within one column
Did it work? (Yes/No)	No
Actual outcome	When the content was put into the grid layout the images were slightly too large to fit as intended.
Reflection / changes	The images will need to be resized to fit within the available space
Evidence	 <p>Figure 24 - images grid layout</p>
What is being tested?	That the four images and content are correctly sized within the images section
Why is it being tested?	To make sure that the resized images fit in the space provided
Expected outcome	The images and content should take up a square like shape with an image above its content and contained within one column



Did it work? (Yes/No)	Yes
Actual outcome	After the images were resized the content and images lined up correctly within the columns
Reflection / changes	If more space is needed there is still some space to decrease the height of the elements to bring them closer together
Evidence	 <p>Figure 25 - images grid layout with resized images</p>
What is being tested?	Articles content fits within two columns
Why is it being tested?	To make sure that the news article content fits in the space provided by the grid layout and does not go outside of its allowed space.
Expected outcome	The article section should have a heading at the top with the article below spanning a third of the remaining space and should contain a heading a paragraph and a date at the bottom of each article.
Did it work? (Yes/No)	Yes
Actual outcome	The article was laid out as expected with everything set to the left-hand side of the screen.




Reflection / changes	The date needs moving over to the right side of the screen.	
Evidence	 <p>Figure 26 - news grid layout</p>	
What is being tested?	Date is in the correct location	
Why is it being tested?	To make sure that the added CSS for the date correctly positions the date for each article	
Expected outcome	The date should move from the left-hand side of the screen to the right.	
Did it work? (Yes/No)	Yes	
Actual outcome	The date was positioned correctly in each article at the right bottom corner.	

Reflection / changes	
Evidence	<div> <div> <h3>Latest News</h3> <p>News item one!</p> <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure.</p> <p>September 2012</p> <p>News item one!</p> <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure.</p> <p>September 2012</p> <p>News item one!</p> <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure.</p> <p>September 2012</p> </div> <p>Figure 27 - date moved to correct location</p> </div>
What is being tested?	Poll layout
Why is it being tested?	To make sure that the poll content sits correctly as intended by the CSS code.
Expected outcome	The reader poll should sit above the competition. The radio buttons should be in the middle of the poll section.
Did it work? (Yes/No)	Yes
Actual outcome	The poll correctly sits below the news section with the content arranged as expected.

Reflection / changes	
Evidence	 <p><b>Reader Poll</b></p> <p>Are Robot Juice the best and most usable and accessible fake oils around?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><b>Competition</b></p> <p>Win absolutely nothing by entering this extremely expensive competition competition. Robot Juice will not send you a full range of our cycling and motorcycle oils and lubricants as we do not exist. But just for fun.</p> <p>Which Film is our address made up from?</p> <p>a. Armageddon b. Harry Potter c. The Simpsons (Movie)</p> <p>answers on a postcard please</p> <p><i>Figure 28 - poll grid layout</i></p>
What is being tested?	Sub section image
Why is it being tested?	To make sure that the image is correctly sized within the spaced available and is positioned correctly
Expected outcome	The image should take up one column within the sub section. It should be positioned in the left column.
Did it work? (Yes/No)	Yes
Actual outcome	The image was placed correctly within the sub section and only took up one column as was expected.
Reflection / changes	

Evidence	 <p>Figure 29 - sub image layout</p>
What is being tested?	Sub section latest reviews
Why is it being tested?	To make sure that the reviews is correctly positioned within the sub section
Expected outcome	The content should sit to the right of the sub section image and span that one column.
Did it work? (Yes/No)	Yes
Actual outcome	The latest reviews content is correctly positioned within the sub section next to the image as intended.
Reflection / changes	The content may span to far down and may overlap with the links section slightly.
Evidence	 <p>Figure 30 - latest grid layout</p>
What is being tested?	Sub section Links
Why is it being tested?	To make sure that the links are correctly positioned
Expected outcome	The links should sit below both the image and reviews of the sub section.
Did it work? (Yes/No)	Yes

Actual outcome	The links is correctly sat underneath the image and reviews with no overlap from the other section.
Reflection / changes	
Evidence	 <p><b>Latest Reviews</b></p> <p>Cycling magazine has given Robot Juice a 5 star rating in its latest reviews of dry lubricants. Robot Juice Dry Lube was rated the highest out of over 40 top brand dry lubs.</p> <p><b>Links</b></p> <p><a href="#">Edge Hill University</a></p> <p><a href="#">Dave Walsh</a></p> <p><a href="https://twitter.com/walsh_d">https://twitter.com/walsh_d</a></p> <p><a href="#">CIS1110 - Web Design and Development module</a></p> <p><i>Figure 31 - links grid layout</i></p>
What is being tested?	Footer layout
Why is it being tested?	To make sure that the content in the footer is correctly positioned within the space.
Expected outcome	The content should sit as four lines with each one below the other with a small gap in-between
Did it work? (Yes/No)	Yes
Actual outcome	The content correctly sits as intended within overlap and all contained within the two content columns
Reflection / changes	


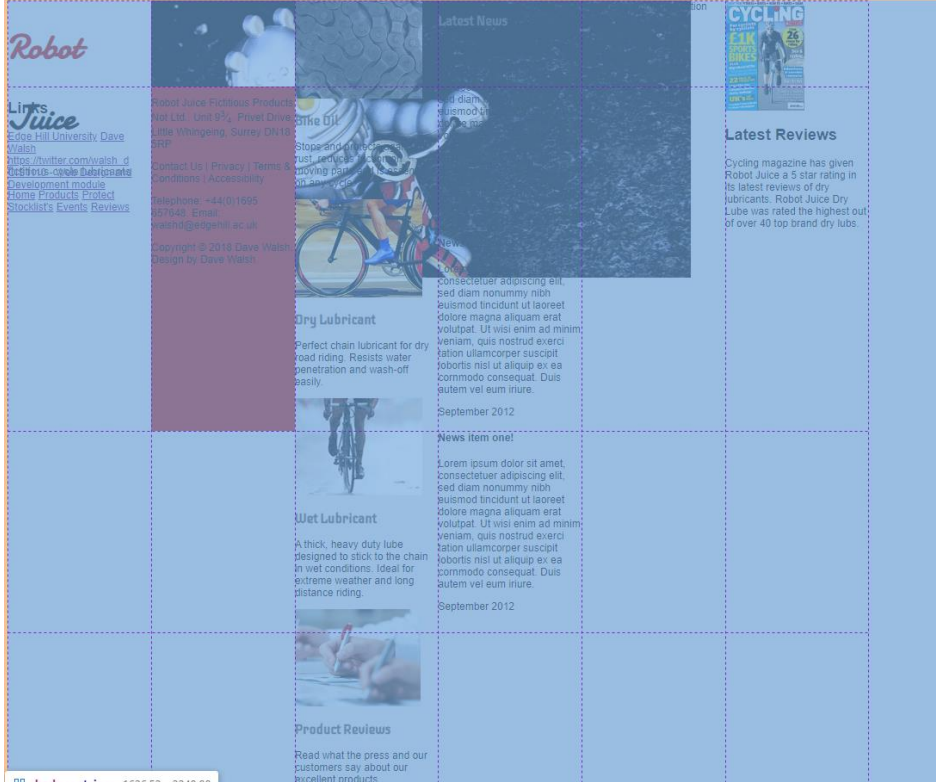



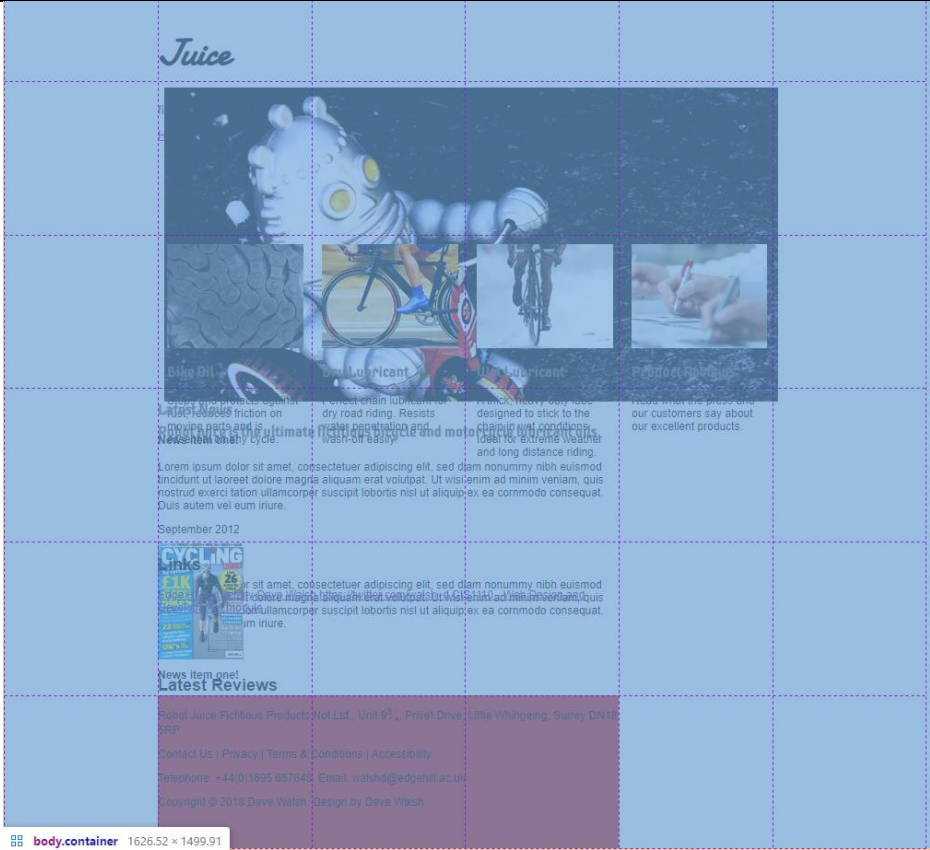
Evidence	 <p>Robot Juice Fictitious Products Not Ltd., Unit 9<sup>3</sup>/<sub>4</sub>, Privet Drive, Little Whingeing, Surrey DN18 5RP</p> <p>Contact Us   Privacy   Terms &amp; Conditions   Accessibility</p> <p>Telephone: +44(0)1695 657648. Email: walshd@edgehill.ac.uk</p> <p>Copyright © 2018 Dave Walsh. Design by Dave Walsh</p>
Desktop Layout	
What is being tested?	Does the CSS code correctly create the grid and row structure for the desktop screen size
Why is it being tested?	To make sure that the content can be correctly placed into rows and columns.
Expected outcome	CSS should create a grid structure that can be displayed when the webpage is inspected using developer tools
Did it work? (Yes/No)	Yes
Actual outcome	The CSS code correctly creates a grid and row structure
Reflection / changes	The rows and columns may need to be edited to fit elements into the correct rows as shown below.

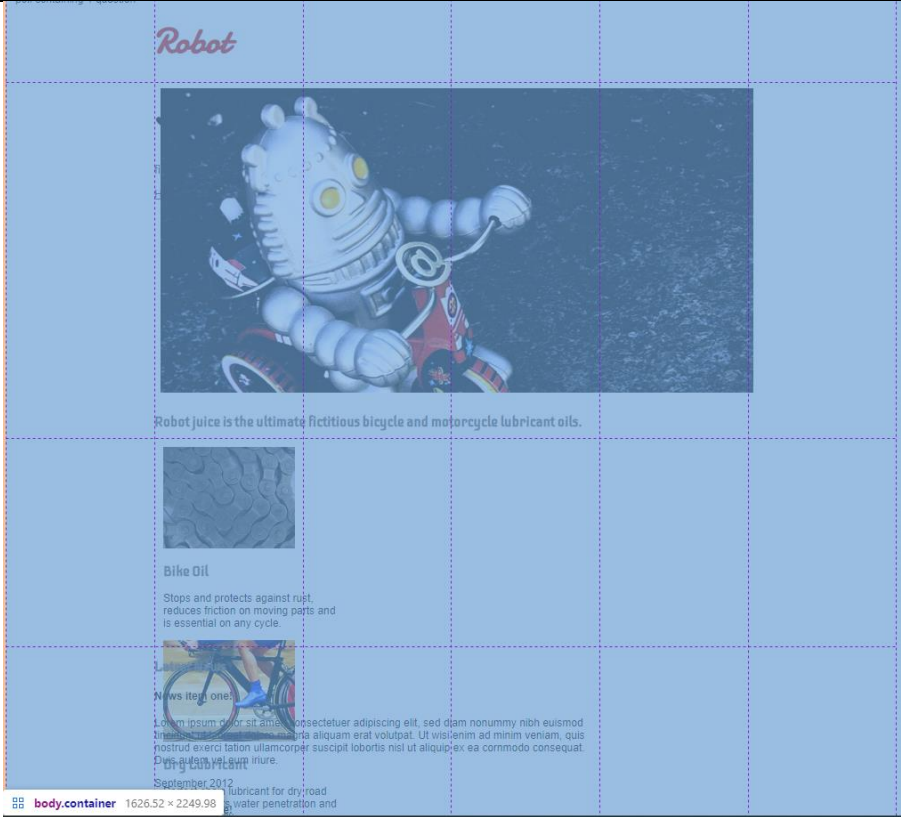
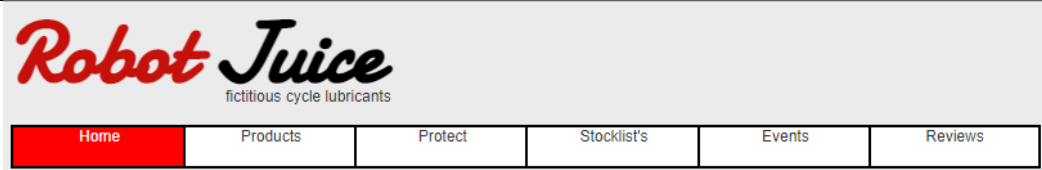
Figure 32 - footer grid layout


Evidence	 <p>Figure 33 - desktop grid layout</p>
What is being tested?	The elements are placed into the correct rows as per the design.
Why is it being tested?	To make sure that the elements are in the correct place
Expected outcome	Should have the header as the first row, the banner image should be the second row with each content as separate row and the footer as the final row.
Did it work? (Yes/No)	Yes
Actual outcome	The code correctly puts the content onto each row with overlap between elements.
Reflection / changes	The code will have to be placed into columns; the rows will also have to be edited to fit the content


Evidence	<div>  <p>Robot juice is the ultimate fictitious bicycle</p>  <p>Bike Oil</p> <p>Stops and protects against rust, reduces friction on moving parts and is essential on any cycle.</p>  <p>News item one!</p> <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit</p> </div> <p>Figure 34 - desktop row layout</p>
What is being tested?	Content is correctly placed into columns with content placed in between rows 2 and 5.
Why is it being tested?	To make sure that the code can correctly place the html elements into the correct columns.
Expected outcome	Content should be placed in between columns 2 and 5.
Did it work? (Yes/No)	Yes
Actual outcome	Content still overlaps between rows and not all content is on one single line.
Reflection / changes	The four images on a single line needs correcting to put everything on the same row using flexbox.




Evidence	 <p>Figure 35 - content organised</p>
What is being tested?	The size of the rows has been changed to fit the content.
Why is it being tested?	To make sure that the CSS code is displayed correctly.
Expected outcome	Each piece of content should be on its own row.
Did it work? (Yes/No)	Yes
Actual outcome	The size of the rows was successfully changed as shown below; however, some content still overlaps due to it not being fully formatted yet
Reflection / changes	Some of the content is still not formatted properly so that will need to be changed, the footer and links section also needs to be expanded across the full screen.

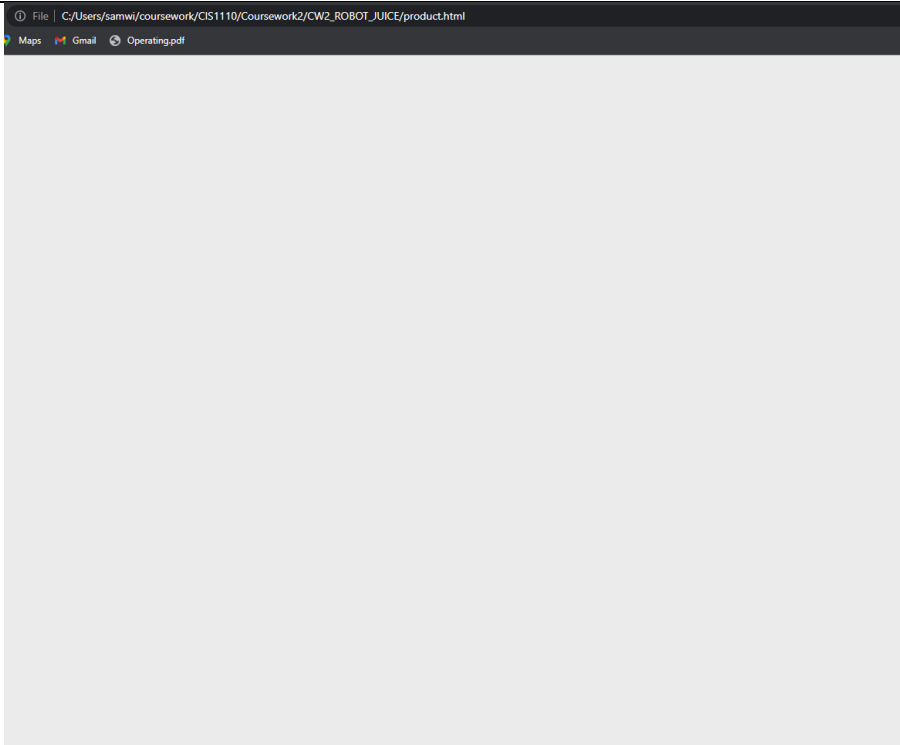
Evidence	 <p>Figure 36 - resized rows</p>
What is being tested?	Header grid structure
Why is it being tested?	To make sure that the log and navigation elements format correctly on the index web page.
Expected outcome	The header should have a logo in the top right corner with the navigation bar underneath spanning the page with six section all in one row.
Did it work? (Yes/No)	Yes
Actual outcome	The logo is correctly positioned with the navigation sitting underneath the logo all in a single row.
Reflection / changes	The navigation elements could have a hover function attached to them which changes the styles. The nav bar could also be positioned a little lower to give more space to the logo.
Evidence	 <p>Figure 37 - header grid structure</p>

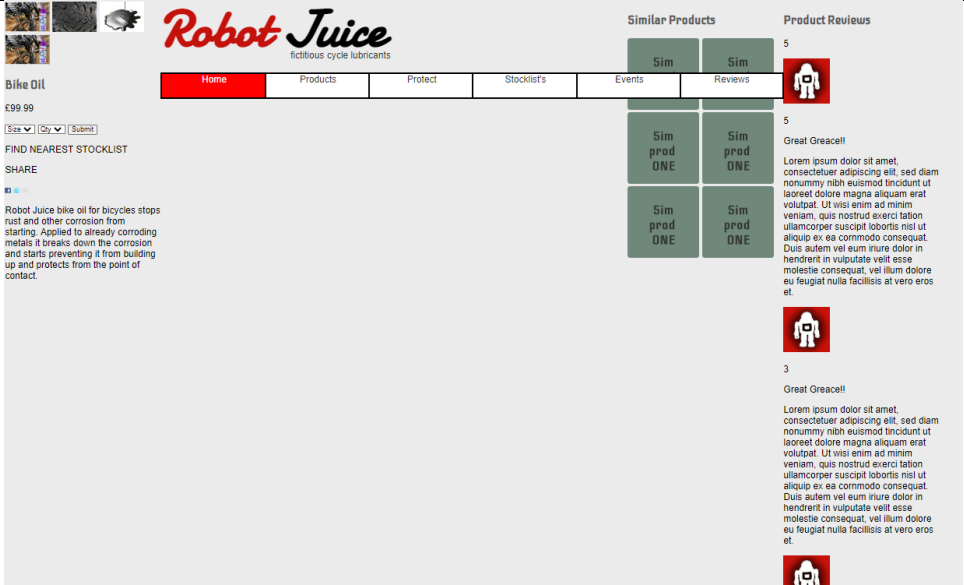
What is being tested?	Banner section grid layout
Why is it being tested?	To make sure that the grid is correctly implemented for the banner section
Expected outcome	The image should span the four columns with a heading below spanning the same distance
Did it work? (Yes/No)	Yes
Actual outcome	The image is in the correct grid position and correctly spans the page along with the heading underneath it.
Reflection / changes	The heading could be more confined within the four columns.
Evidence	 <p>Robot juice is the ultimate fictitious bicycle and motorcycle lubricant oils.</p>
<i>Figure 38 - banner grid structure</i>	
What is being tested?	That the four images now line up in a single row using flex box
Why is it being tested?	To make sure that the code works as intended and that the changes to the content does not affect the other content areas
Expected outcome	Should have the images and sub text for the four images on a single row with no overlap
Did it work? (Yes/No)	Yes
Actual outcome	The code correctly puts the images on a single row without affecting the rest of the content.
Reflection / changes	The other elements including the header and footer now need formatting correctly to match the design.

Evidence	 <div> <div> <b>Bike Oil</b>  Stops and protects against rust, reduces friction on moving parts and is essential on any cycle. </div> <div> <b>Dry Lubricant</b>  Perfect chain lubricant for dry road riding. Resists water penetration and wash-off easily. </div> <div> <b>Wet Lubricant</b>  A thick, heavy duty lube designed to stick to the chain in wet conditions. Ideal for extreme weather and long distance riding. </div> <div> <b>Product Reviews</b>  Read what the press and our customers say about our excellent products. </div> </div> <p>Figure 39 - images grid structure</p>
What is being tested?	Does the grid format for the poll work
Why is it being tested?	To make sure that the grid styles for the form correctly puts the poll in the correct place
Expected outcome	The poll should be placed next to the news section.
Did it work? (Yes/No)	Yes
Actual outcome	The poll was correctly placed in the main webpage area.
Reflection / changes	No changes needed however styles CSS code needs to be added.
Evidence	<div> <div> <b>Latest News</b>  News item one!  <p>&gt;Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure.</p> <p>September 2012</p> </div> <div> News item one!  <p>&gt;Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure.</p> <p>September 2012</p> </div> <div> News item one!  <p>&gt;Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure.</p> <p>September 2012</p> </div> </div> <div> <b>Reader Poll</b>  Are Robot Juice the best and most usable and accessible fake oils around?  <input type="radio"/> Yes  <input type="radio"/> No    <b>Competition</b>  Win absolutely nothing by entering this extremely expensive competition. Robot Juice will not send you a full range of our cycling and motorcycle oils and lubricants as we do not exist. But just for fun.  Which Film is our address made up from?  1. Armageddon  2. Harry Potter  3. The Simpsons (Movie)  answers on a postcard please </div> <p>Figure 40 - news and poll grid format</p>
What is being tested?	The links section grid
Why is it being tested?	To make sure that the links section is formatted correctly, and that the CSS code correctly displays the grid format.
Expected outcome	The image should be placed on the far left of the screen in column 2, the latest reviews should sit in column 3 and the links should sit in column 5;
Did it work? (Yes/No)	Yes

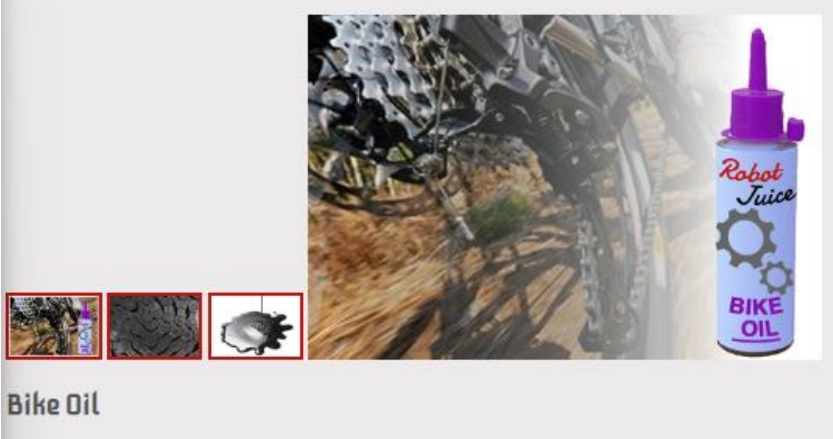
Actual outcome	The screen correctly displays the CSS with all objects in the correct column and row.
Reflection / changes	No changes needed to the code
Evidence	<div>  <div> <h3>Latest Reviews</h3> <p>Cycling magazine has given Robot Juice a 5 star rating in its latest reviews of dry lubricants. Robot Juice Dry Lube was rated the highest out of over 40 top brand dry lubes.</p> </div> <div> <h3>Links</h3> <p> <a href="#">Edge Hill University</a>  <a href="#">Dave Walsh</a>  <a href="https://twitter.com/walsh_d">https://twitter.com/walsh_d</a>  <a href="#">CIS1110 - Web Design and Development module</a> </p> </div> </div> <p>Figure 41 - sub section grid layout</p>
What is being tested?	The grid format for the footer section
Why is it being tested?	To make sure that the CSS code is correctly implemented by the browser.
Expected outcome	The content for the footer should be displayed over two lines towards the top of the footer section
Did it work? (Yes/No)	Yes
Actual outcome	The code was displayed as intended
Reflection / changes	No changes needed to code; the text may need to be larger to be more easily visible
Evidence	<div> <div> <p>Robot Juice Fictitious Products Not Ltd., Unit 9<sup>3</sup>/<sub>4</sub>, Privet Drive, Little Whingeing, Surrey DN18 5RP</p> <p>Telephone: +44(0)1695 657648. Email: <a href="mailto:walshd@edgehill.ac.uk">walshd@edgehill.ac.uk</a></p> </div> <div> <p> <a href="#">Contact Us</a>   <a href="#">Privacy</a>   <a href="#">Terms &amp; Conditions</a>   <a href="#">Accessibility</a>            Copyright © 2018 Dave Walsh. Design by Dave Walsh         </p> </div> </div> <p>Figure 42 - footer grid layout</p>
What is being tested?	Grid CSS validates correctly
Why is it being tested?	To make sure that the CSS validates correctly so that it can run correctly on other devices
Expected outcome	Should display a correctly validated screen.
Did it work? (Yes/No)	Yes
Actual outcome	Code was validated correctly
Reflection / changes	No changes needed
Evidence	<p>W3C CSS Validator results for grid.css (CSS level 3 + SVG)</p> <div> <p><b>Congratulations! No Error Found.</b></p> </div> <p>Figure 43 - validator result</p>

## Product page

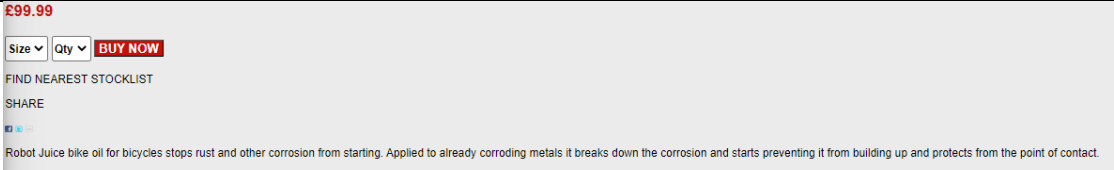

What is being tested?	Does Web page load
Why is it being tested?	Make sure that a basic blank screen loads when the site is opened
Expected outcome	Should load a basic white screen
Did it work? (Yes/No)	Yes
Actual outcome	The screen shows a basic white screen
Reflection / changes	No changes are needed
Evidence	 <p><i>Figure 44 - product page load test</i></p>
What is being tested?	Does the basic content and images load
Why is it being tested?	That the basic content loads on screen with previously made styles being applied


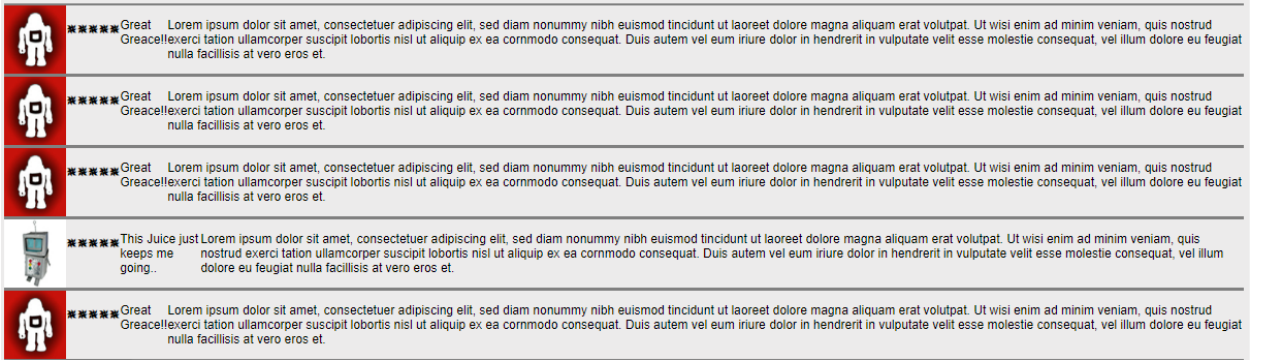
Expected outcome	The screen should load the basic content with styles applied to the header, footer, and links section
Did it work? (Yes/No)	Yes
Actual outcome	The code loads as intended with the styles applied to the sections that have already been made from the index page.
Reflection / changes	The html now needs placing into the correct grid layout and styles being applied to the screen
Evidence	 <p>The screenshot shows a web page for 'Robot Juice', a fictitious cycle lubricants brand. The page layout includes a header with the brand name and navigation links (Home, Products, Protect, Stockists, Events, Reviews). A sidebar on the left features a 'Bike Oil' product listing with a price of £99.99, a 'Find Nearest Stocklist' button, and a 'Share' section. The main content area displays a product description for 'Robot Juice bike oil' and a 'Similar Products' section with four placeholder items labeled 'Sim prod ONE'. A 'Product Reviews' section on the right shows two reviews for 'Great Greace!!' with ratings of 5 and 3 stars respectively. The page is styled with a light gray background and red accents for the brand name and navigation links.</p> <p><i>Figure 45 - content load test</i></p>
What is being tested?	Does the HTML validate
Why is it being tested?	That the code validates without any errors is the base code.
Expected outcome	The code should validate without any errors
Did it work? (Yes/No)	Yes
Actual outcome	The code displayed no errors for the html
Reflection / changes	The code will be revalidated later to make sure that there are no errors to the code, there is a small amount of text that could cause an issue due to the language it is written in but should pose a major issue this may be changed in future.

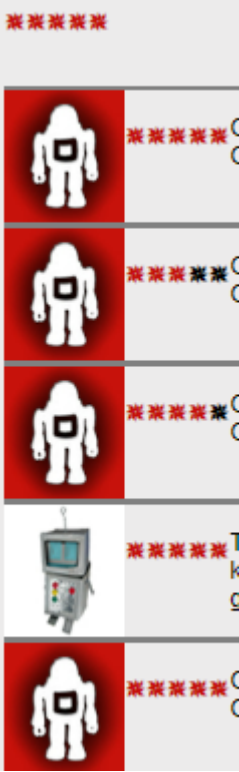



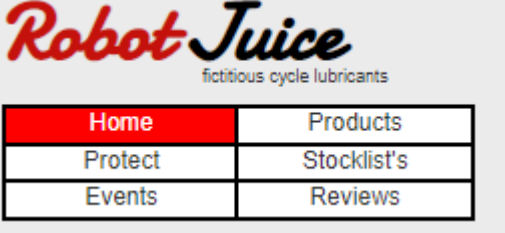
Evidence	<div> <div> 1. <b>Warning</b> This document appears to be <i>Lorem ipsum</i> text but the <code>&lt;html&gt;</code> start tag has <code>lang="en"</code>. Consider using <code>lang="zxx"</code> (or variant) instead.  From line 1, column 16; to line 2, column 18  TYPE <code>&lt;html&gt;</code><code>&lt;html lang = "en"&gt;</code><code>&lt;</code>  For further guidance, consult <a href="#">Tagging text with no language</a>, <a href="#">Declaring the overall language of a page</a> and <a href="#">Choosing language tags</a>.  If the HTML checker has misidentified the language of this document, please <a href="#">file an issue report</a> or <a href="#">send e-mail to report the problem</a>. </div> <div> 2. <b>Warning</b> Section lacks heading. Consider using <code>h2</code> - <code>h6</code> elements to <a href="#">add identifying headings to all sections</a>.  From line 96, column 13; to line 96, column 33  <code>&lt;section id="latest"&gt;</code><code>&lt;/&gt;</code> </div> <div> 3. <b>Warning</b> Section lacks heading. Consider using <code>h2</code> - <code>h6</code> elements to <a href="#">add identifying headings to all sections</a>.  From line 95, column 9; to line 95, column 26  <code>&lt;section id="sub"&gt;</code><code>&lt;/&gt;</code> </div> </div> <p>Figure 46 - validator results</p>
What is being tested?	Products section image and heading Styles
Why is it being tested?	To make sure that the CSS styles are applied correctly and follow the style guide provided for the products section.
Expected outcome	the three small images should have a red border and have one large image next to it. The headings should be bold with a large Iceberg font.
Did it work? (Yes/No)	Yes
Actual outcome	The styles were applied as intended. The borders for the three small images are the correct size of three pixels, and all images appear to be at the right size.
Reflection / changes	
Evidence	 <p>Figure 47 - product styles test</p>
What is being tested?	Remaining style for the product section
Why is it being tested?	To make sure that the CSS styles are applied correctly and follow the style guide provided for the products section.






Expected outcome	The price should be in red as well as the background of the button. The select parts should have slightly rounded borders and be in bold. The remaining content should follow the styles set out for the body.
Did it work? (Yes/No)	Yes
Actual outcome	The styles were correctly applied to the product section. The form selectors and button displayed correctly and in the correct font.
Reflection / changes	The buttons and text may need enlarging slightly to be more visible.
Evidence	 <p>Figure 48 - product info and form styles test</p>
What is being tested?	Similar products section CSS styles
Why is it being tested?	To make sure that the webpage correctly loads and applies the styles.
Expected outcome	the code should give the similar products heading a large Iceberg font and should display 6 images underneath.
Did it work? (Yes/No)	Yes
Actual outcome	the page correctly displays the six images underneath the similar products heading in 28px iceberg font
Reflection / changes	the images may need enlarging and spacing out more when the grid structure is applied to the desktop version.
Evidence	 <p>Figure 49 - similar product styles test</p>
What is being tested?	Product reviews heading
Why is it being tested?	The heading for this section must follow the same styles as the other headings. This test is to make sure that these styles are correctly applied to heading.

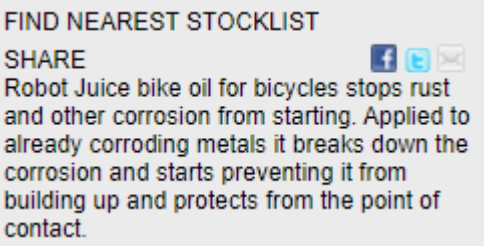
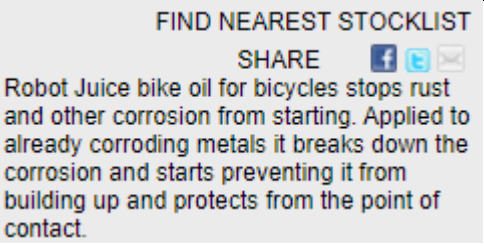
Expected outcome	The heading should be in Iceberg font with a size of 28pixels.
Did it work? (Yes/No)	Yes
Actual outcome	the heading was correctly displayed with the correct font at the correct size.
Reflection / changes	
Evidence	 <p>Figure 50 - product reviews heading styles test</p>
What is being tested?	Product reviews articles
Why is it being tested?	To make sure that the article is displayed in the correct format with the correct styles applied.
Expected outcome	The page should display a small image with stars and a paragraph. The stars should be black in Iceberg font with the rest of the text being the standard arial font. The articles should also have a small border above and below.
Did it work? (Yes/No)	Yes
Actual outcome	the page correctly displayed the articles in the correct font, colour and correctly displayed the small grey borders above and below each review.
Reflection / changes	The stars will now need styling so that only a few displays as a different colour to show the rating
Evidence	 <p>Figure 51 - reviews styles test</p>
What is being tested?	Product reviews stars

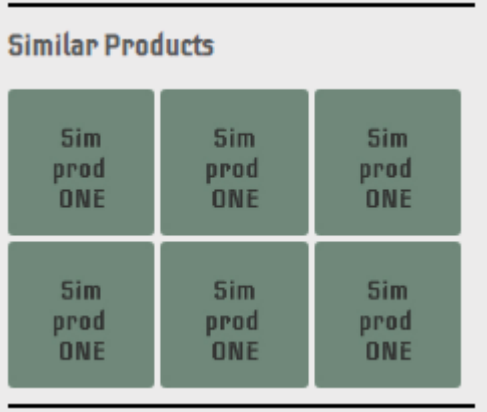
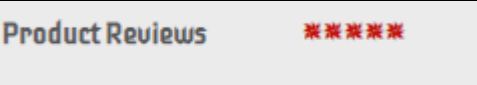
Why is it being tested?	This test is being done to make sure that a rating can be shown by the web page
Expected outcome	Should turn any star between the span tags red and leave any other star black
Did it work? (Yes/No)	Yes
Actual outcome	the stars correctly turned red if they are in-between the span tags
Reflection / changes	
Evidence	 <p>Figure 52 - star styles test</p>
What is being tested?	Product reviews button
Why is it being tested?	To make sure that the reviews button is styled correctly and is visible.
Expected outcome	the button should be red with curved edges and white text.
Did it work? (Yes/No)	Yes

Actual outcome	the button correctly displays a white text with a red background and curved edges.
Reflection / changes	the button needs to be larger as it appears more as an oval rather than having curved corners.
Evidence	 <p>Figure 53 - button styles test</p>
Mobile Layout	
What is being tested?	Header grid layout
Why is it being tested?	To make sure that the logo looks correct within the header element and to make sure that the navigation is correctly positioned within the header to fit both logo and nav without overlapping the row below.
Expected outcome	The logo should be in the top left corner with a small gap between it and the navigation. The navigation should sit below it on the webpage with a small gap between the bottom of the navigation and the bottom of the row.
Did it work? (Yes/No)	Yes
Actual outcome	The logo is in the correct position with a small gap between itself and the navigation bar below. The navigation sits just above the bottom of the row avoiding any potential overlap with the elements below
Reflection / changes	
Evidence	 <p>Figure 54 - product header grid layout test</p>
What is being tested?	Product section is in the correct grid column and row
Why is it being tested?	To make sure that the section is correctly positioned within the web page.
Expected outcome	The section should appear at the top of the screen below the navigation.
Did it work? (Yes/No)	Yes

Actual outcome	The section appears below the header as expected.
Reflection / changes	The height and width of the section may need setting to create a non-overlapping grid
Evidence	 <p>Figure 55 - product section grid test</p>
What is being tested?	The images in the product section
Why is it being tested?	To make sure that the images are in the correct positions and sized correctly
Expected outcome	The three smaller images should sit above the main larger image. The larger image should span the two columns
Did it work? (Yes/No)	Yes
Actual outcome	The images are correctly positioned and span the columns correctly.
Reflection / changes	The top three small image should spread out a bit more to fill the two columns rather than sit on one side.

Evidence	 <p>Figure 56 product images grid test</p>
What is being tested?	The heading and form layout
Why is it being tested?	To make sure that the heading and form correctly sit within the space provided.
Expected outcome	The heading and price should sit on the left-hand side. The form section should sit on the right-hand side.
Did it work? (Yes/No)	Yes
Actual outcome	The heading and price correctly sit on the left-hand side with the form on the right. The select buttons sit above the button as was intended.
Reflection / changes	The form could sit more towards the right of the screen and the button could span the entire width of the size and quantity selectors.
Evidence	 <p>Figure 57 - headings and button grid test</p>
What is being tested?	The grid layout for the information section of the product section
Why is it being tested?	To make sure the information is correctly structured.
Expected outcome	The find stock and share should sit on the right-hand side with the remaining information should sit underneath and span the two columns.
Did it work? (Yes/No)	No
Actual outcome	The find stock and share is incorrectly sat on the left-hand side instead of the right

Reflection / changes	The CSS needs to be changed so that it sits on the opposite side.
Evidence	 <p>Figure 58 - product info grid test</p>
What is being tested?	The find stock and share sits on the right-hand side correctly
Why is it being tested?	To make sure the changes to CSS work as intended
Expected outcome	The find stock and share should sit on the right-hand side.
Did it work? (Yes/No)	Yes
Actual outcome	The find stock and share sits correctly on the right-hand side
Reflection / changes	
Evidence	 <p>Figure 59 - info grid test</p>
What is being tested?	Similar products grid layout
Why is it being tested?	To make sure that the grid is correctly applied to the section.
Expected outcome	The heading should sit above the six images set in a three by two rectangle.
Did it work? (Yes/No)	Yes

Actual outcome	The heading correctly sits above the images. The images sit correctly in two rows with three columns.
Reflection / changes	
Evidence	 <p>Figure 60 - similar product grid layout</p>
What is being tested?	Products reviews heading
Why is it being tested?	To make sure that the heading is correctly positioned within the grid for the web page
Expected outcome	The heading should sit at the top of the section with the stars to the right side of the heading
Did it work? (Yes/No)	Yes
Actual outcome	The heading sits at the top of the section with the stars sat to the right with a medium sized gap in-between
Reflection / changes	The stars could be larger and sat closer to the heading.
Evidence	 <p>Figure 61 - product reviews heading grid layout</p>
What is being tested?	Products reviews articles
Why is it being tested?	To make sure that the articles and its content are correctly positioned within the grid for the product reviews section
Expected outcome	The articles should be sat one above the other. Within each article the image should sit in the top right corner with the nickname and rating to its right. Underneath this should be the review itself from the user.



Did it work? (Yes/No)	Yes
Actual outcome	The CSS correctly displays the image in the top left corner with the stars and nickname next to it. The actual review correctly sits below the image and nickname.
Reflection / changes	






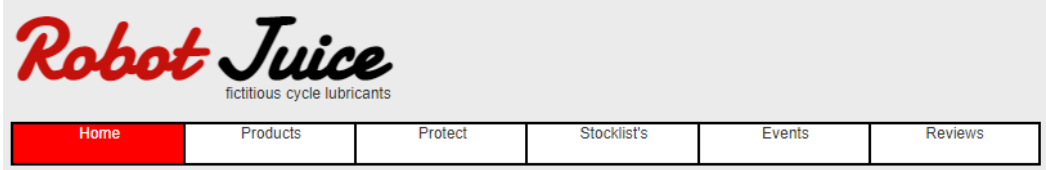
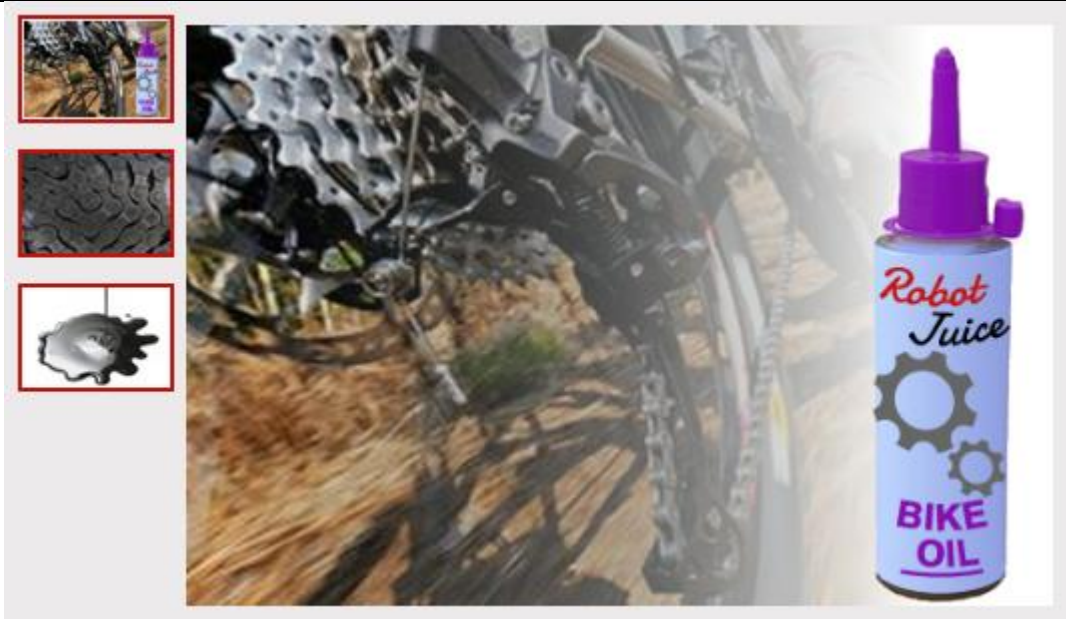

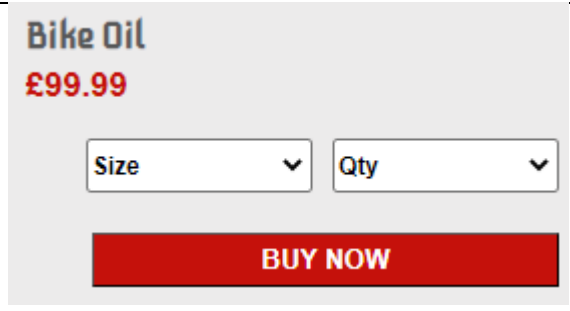
Evidence	<div data-bbox="315 218 420 319"></div> <div data-bbox="440 218 547 239">★★★★★</div> <div data-bbox="440 252 602 277">Great Greace!!</div> <div data-bbox="308 329 774 632"> <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et.</p> </div> <hr/> <div data-bbox="315 655 420 756"></div> <div data-bbox="440 655 547 676">★★★★★</div> <div data-bbox="440 688 602 714">Great Greace!!</div> <div data-bbox="308 766 774 1068"> <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et.</p> </div> <hr/> <div data-bbox="315 1092 420 1192"></div> <div data-bbox="440 1092 547 1113">★★★★★</div> <div data-bbox="440 1125 602 1150">Great Greace!!</div> <div data-bbox="308 1203 774 1505"> <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et.</p> </div> <hr/> <div data-bbox="315 1528 420 1629"></div> <div data-bbox="440 1528 547 1549">★★★★★</div> <div data-bbox="440 1562 597 1644"> <p>This Juice just keeps me going..</p> </div> <div data-bbox="308 1640 753 1694"> <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh</p> </div>
What is being tested?	Sub section grid layout

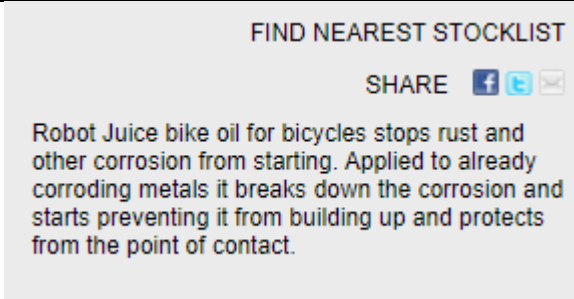
Figure 62 - reviews grid layout

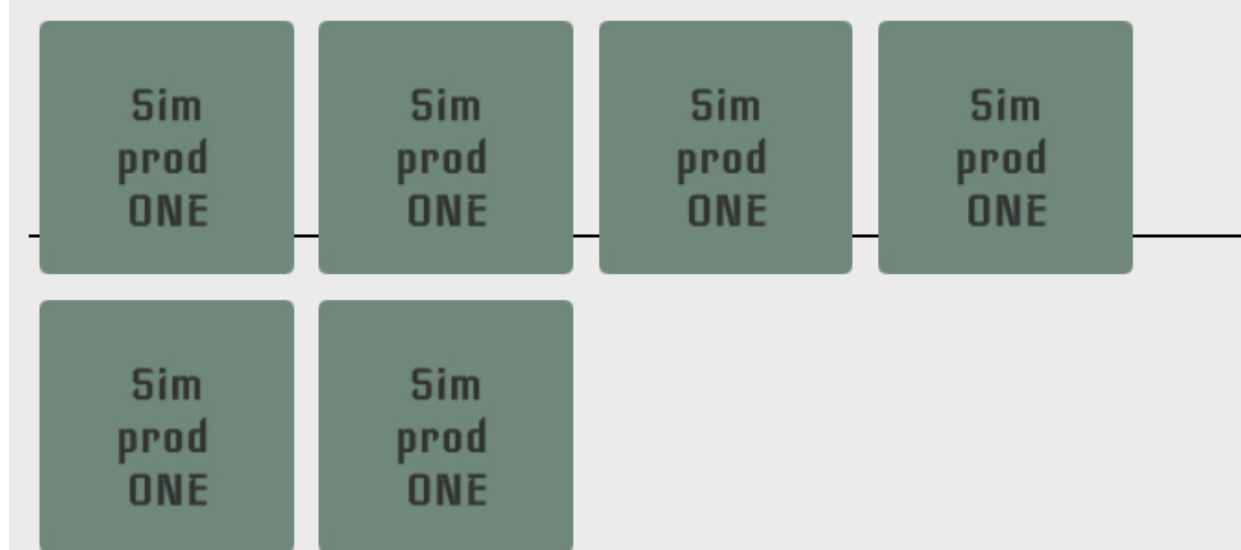
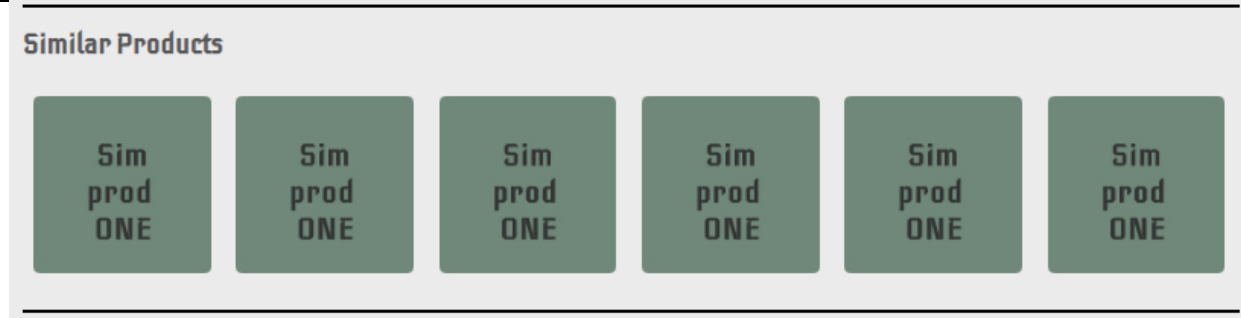
Why is it being tested?	To make sure that all the parts of the sub section are correctly transferred from the index page to the product page
Expected outcome	The layout should match the index page. It should have the magazine in the top left with the reviews next to it. The links should sit underneath the magazine and reviews.
Did it work? (Yes/No)	Yes
Actual outcome	The webpage displayed the sub section as intended and matched the index page.
Reflection / changes	The links is correctly sat underneath the image and reviews with no overlap from the other section.
Evidence	 <p><b>Links</b></p> <p><a href="#">Edge Hill University</a></p> <p><a href="#">Dave Walsh</a></p> <p><a href="https://twitter.com/walsh_d">https://twitter.com/walsh_d</a></p> <p><a href="#">CIS1110 - Web Design and Development module</a></p> <p><i>Figure 63 - sub section grid layout</i></p>
What is being tested?	Footer grid layout
Why is it being tested?	To make sure that the content in the footer is correctly positioned within the space.
Expected outcome	The content should sit as four lines with each one below the other with a small gap in-between
Did it work? (Yes/No)	Yes
Actual outcome	The content correctly sits as intended within overlap and all contained within the two content columns

Reflection / changes	
Evidence	 <p>Robot Juice Fictitious Products Not Ltd., Unit 9<sup>3</sup>/<sub>4</sub>, Privet Drive, Little Whingeing, Surrey DN18 5RP</p> <p>Contact Us   Privacy   Terms &amp; Conditions   Accessibility</p> <p>Telephone: +44(0)1695 657648. Email: walshd@edgehill.ac.uk</p> <p>Copyright © 2018 Dave Walsh. Design by Dave Walsh</p> <p><i>Figure 64 - footer grid layout</i></p>
Desktop Layout	
What is being tested?	Header grid structure
Why is it being tested?	To make sure that the log and navigation elements format correctly on the index web page.
Expected outcome	The header should have a logo in the top right corner with the navigation bar underneath spanning the page with six section all in one row.
Did it work? (Yes/No)	Yes
Actual outcome	The logo is correctly positioned with the navigation sitting underneath the logo all in a single row.
Reflection / changes	The navigation elements could have a hover function attached to them which changes the styles. The nav bar could also be positioned a little lower to give more space to the logo.
Evidence	 <p><i>Figure 65 - header grid layout</i></p>
What is being tested?	Product images grid layout
Why is it being tested?	To make sure that the images are correctly positioned on screen

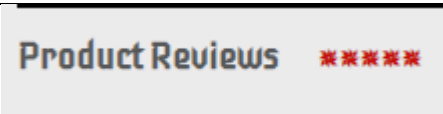
Expected outcome	The three smaller images should sit on the left-hand side of the screen with the larger picture next to them. There should be a small margin between pictures.
Did it work? (Yes/No)	Yes
Actual outcome	The pictures were correctly formatted with a small margin between the small images and the large image. There is a larger margin between the three images compared to the margin between the large image and small images.
Reflection / changes	The margin between the small images could be smaller
Evidence	 <p>Figure 66 - product images grid layout</p>
What is being tested?	Product form and headings
Why is it being tested?	To make sure that the form and headings sit in the correct positions
Expected outcome	The heading should sit at the top left of the space next to the large image with the price underneath. Below these should be the form in a more central position in comparison to the heading and price
Did it work? (Yes/No)	No
Actual outcome	The heading and price are next to the large image as intended however the form is no central.
Reflection / changes	The positioning of the form will need updating to put it in the correct position.


Evidence	 <p><i>Figure 67 - product headings and form grid layout</i></p>	
What is being tested?	Product form	
Why is it being tested?	To make sure the changes made correctly position the form buttons	
Expected outcome	The form should sit in a more central position	
Did it work? (Yes/No)	Yes	
Actual outcome	The form correctly sits in the intended position	
Reflection / changes		
Evidence	 <p><i>Figure 68 - product form grid layout</i></p>	
What is being tested?	Product info	
Why is it being tested?	To make sure the information section of the product section is sat in the correct location	
Expected outcome	The information should sit below the form and headings and to the right of the image. The stocklist and share should be on the right side of the screen.	
Did it work?	Yes	





(Yes/No)	
Actual outcome	The stock list and share sit above the main information paragraph and are correctly positioned on the right-hand side of the screen. All the information is below the form and to the right of the main image.
Reflection / changes	After making the mistake of incorrectly positioning the stocklist and share in the mobile version this was corrected for the desktop version
Evidence	 <p>Robot Juice bike oil for bicycles stops rust and other corrosion from starting. Applied to already corroding metals it breaks down the corrosion and starts preventing it from building up and protects from the point of contact.</p> <p><i>Figure 69 - product info grid layout</i></p>
What is being tested?	Similar products section grid layout
Why is it being tested?	To make sure that the grid layout and sizing is correct for the similar products.
Expected outcome	The images should sit as a row of six with the heading above them.
Did it work? (Yes/No)	No
Actual outcome	The images are too large and expand over a single row.
Reflection / changes	The images need to be made smaller to fit on a single row




Evidence	<div><p>Similar Products</p><p>Figure 70 - similar product grid layout</p></div>
What is being tested?	Updates to the similar products section grid layout
Why is it being tested?	To make sure that the changes to the image size work
Expected outcome	The images should sit on a single row
Did it work? (Yes/No)	Yes
Actual outcome	The images are correctly displayed on a single row
Reflection / changes	
Evidence	<div><p>Similar Products</p><p>Figure 71 - similar product grid layout with resized images</p></div>

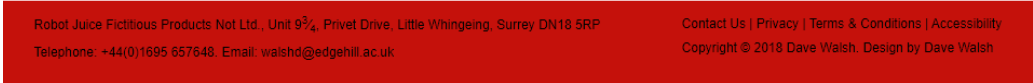


What is being tested?	Product reviews heading
Why is it being tested?	To make sure the grid layout is implemented correctly
Expected outcome	The product reviews should sit in the top left corner with the star next to it.
Did it work? (Yes/No)	Yes
Actual outcome	The heading sits in the correct location with the stars next to it.
Reflection / changes	The stars could be closer to the heading and larger
Evidence	 <p><i>Figure 72 - product reviews grid layout</i></p>
What is being tested?	Product reviews articles
Why is it being tested?	To make sure that the reviews are correctly positioned.
Expected outcome	The reviews should be row by row with an image on the left, the stars and nickname next followed by the review
Did it work? (Yes/No)	No
Actual outcome	The images positioned correctly however the rest of the content did not correctly line up.
Reflection / changes	The code needs to be updated to correctly line everything up into a single row using flex to place everything inline.

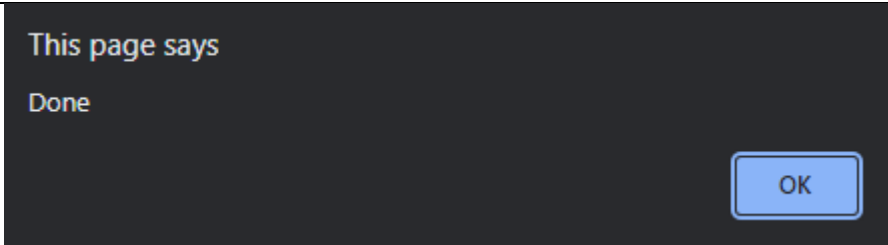
Evidence	 <p>Figure 73 - product reviews grid layout</p>
What is being tested?	Product reviews articles
Why is it being tested?	To make sure that the changes made work and correctly display the reviews
Expected outcome	The reviews should be placed in a single row.
Did it work? (Yes/No)	Yes
Actual outcome	The code correctly displays the reviews in a single row.
Reflection / changes	The main change to the code was the introduction of a flex display to each article that allows the content into a single row.

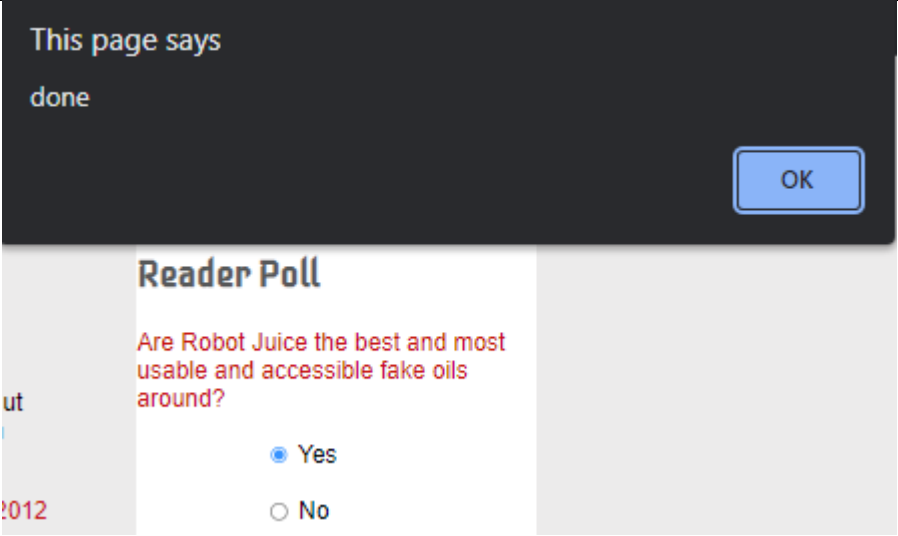
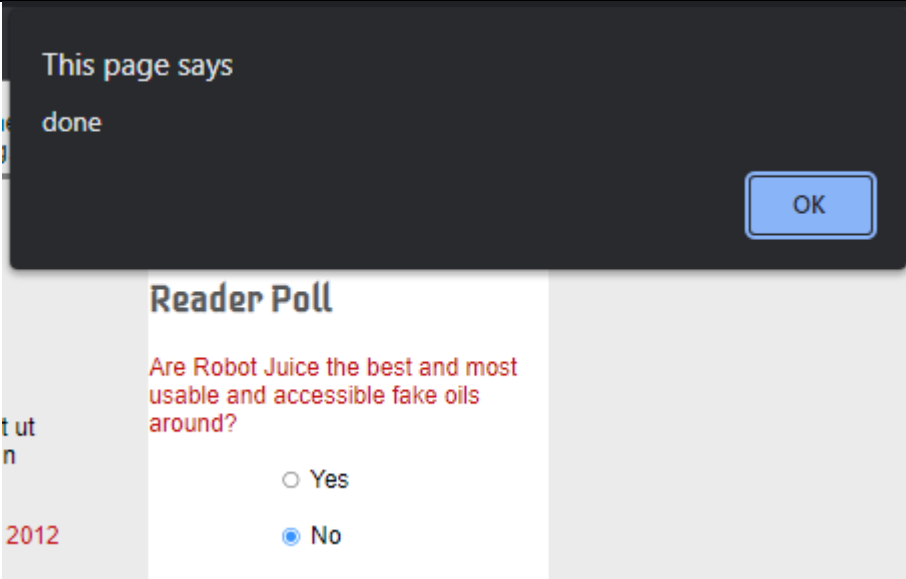
Evidence	<div>  <p>Great Greace!!</p> <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et.</p> </div> <div>  <p>Great Greace!!</p> <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et.</p> </div> <div>  <p>Great Greace!!</p> <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et.</p> </div> <div>  <p>This Juice just keeps me going..</p> <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et.</p> </div> <p>Figure 74 - product reviews articles grid layout</p>
What is being tested?	Product reviews button
Why is it being tested?	To make sure that the button is correctly positioned within the grid
Expected outcome	The button should be placed in the centre of the screen below the reviews.
Did it work? (Yes/No)	Yes
Actual outcome	The button is in the correct position below he reviews
Reflection / changes	


Evidence	<div>  <p>★★★★★</p> <p>This Juice just keeps me going..</p> </div> <div> <p>&gt;Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et.</p> </div> <div>  <p>★★★★★</p> <p>Great Greace!!</p> </div> <div> <p>&gt;Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et.</p> </div> <div> <a href="#">READ ALL REVIEWS</a> </div>
	Figure 75 - button grid layout
What is being tested?	Links section styles are correctly applied
Why is it being tested?	To make sure that the correct styles are applied to the html correctly and that the CSS code is displayed correctly
Expected outcome	Should have a white background with a black top border, the text should be red.
Did it work? (Yes/No)	Yes
Actual outcome	The screen has correctly displayed the CSS with the links in red.
Reflection / changes	
Evidence	<div>  </div> <div> <p><b>Latest Reviews</b></p> <p>Cycling magazine has given Robot Juice a 5 star rating in its latest reviews of dry lubricants. Robot Juice Dry Lube was rated the highest out of over 40 top brand dry lubs.</p> </div> <div> <p><b>Links</b></p> <p><a href="#">Edge Hill University</a></p> <p><a href="#">Dave Walsh</a></p> <p><a href="https://twitter.com/walsh_d">https://twitter.com/walsh_d</a></p> <p><a href="#">CIS1110 - Web Design and Development module</a></p> </div>
	Figure 76 - sub section grid layout
What is being tested?	The grid format for the footer section
Why is it being tested?	To make sure that the CSS code is correctly implemented by the browser.

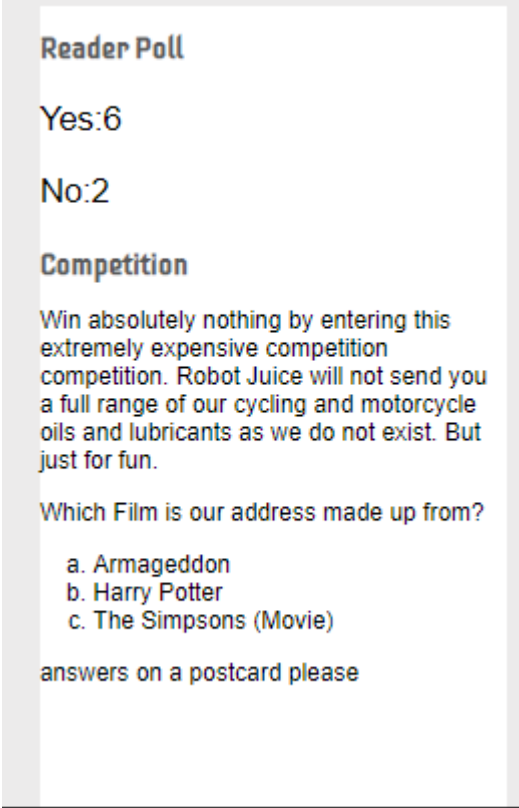
Expected outcome	The content for the footer should be displayed over two lines towards the top of the footer section
Did it work? (Yes/No)	Yes
Actual outcome	The code was displayed as intended
Reflection / changes	No changes needed to code; the text may need to be larger to be more easily visible
Evidence	 <p>Figure 77 - footer grid layout</p>

## Poll.js

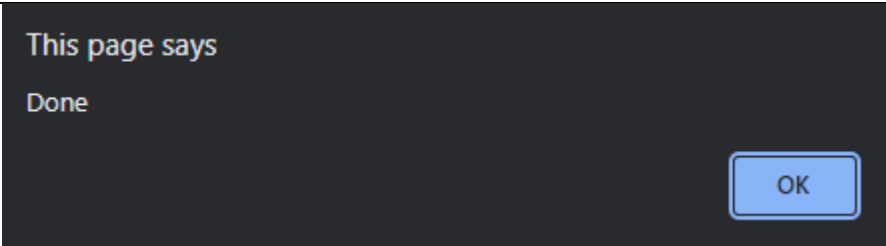
What is being tested?	Document ready function
Why is it being tested?	To make sure that the document correctly finishes loading
Expected outcome	The webpage should receive an alert saying done to confirm the webpage has finished loading
Did it work? (Yes/No)	Yes
Actual outcome	The web page correct receives an alert indicating it has finished loading
Reflection / changes	
Evidence	 <p>Figure 78 - test result</p>
What is being tested?	Yes input
Why is it being tested?	That the JavaScript correctly detects a selection by the user.
Expected outcome	When the yes option is selected it should be highlighted and an alert should show.
Did it work? (Yes/No)	Yes
Actual outcome	The alert correctly shows when yes is selected
Reflection / changes	

Evidence	 <p>Figure 79 - test result</p>
What is being tested?	No input
Why is it being tested?	That the JavaScript correctly detects a selection by the user.
Expected outcome	When the no option is selected it should be highlighted and an alert should show.
Did it work? (Yes/No)	Yes
Actual outcome	The alert correctly shows when no is selected
Reflection / changes	
Evidence	 <p>Figure 80 - test result</p>
What is being tested?	Adding and displaying results
Why is it being tested?	To make sure that the JavaScript correctly updates the yes and no variable and returns the result to the user.

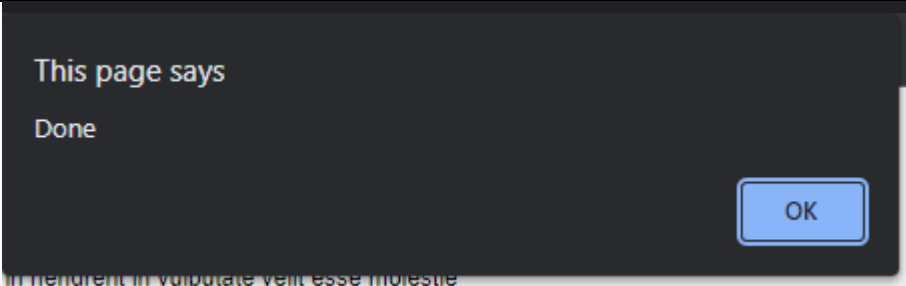
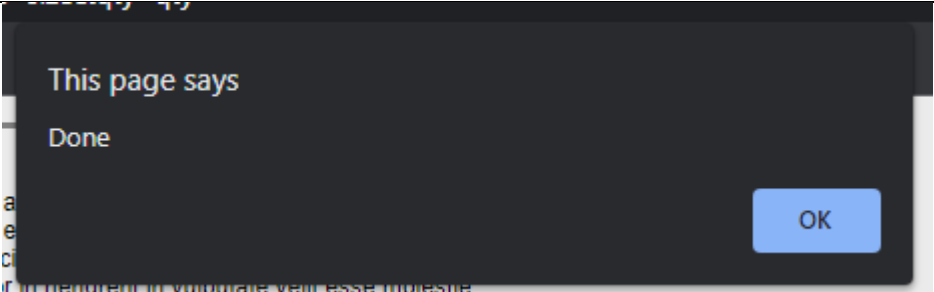
Expected outcome	The JavaScript should hide the poll from the user and replace it with the result of yes and no.
Did it work? (Yes/No)	Yes
Actual outcome	The JavaScript correctly removes the poll and replaces it with the results.
Reflection / changes	
Evidence	 <p>Figure 81 - JavaScript poll result</p>
What is being tested?	The JavaScript works correctly for the mobile version of the site.
Why is it being tested?	To make sure that the mobile version of the site works the same as the desktop version
Expected outcome	The code should display the result as it does for the desktop version
Did it work? (Yes/No)	Yes
Actual outcome	The code correctly removes the poll and replaces it with the result like it does for the desktop version
Reflection / changes	

Evidence	 <p><b>Reader Poll</b></p> <p>Yes:6</p> <p>No:2</p> <p><b>Competition</b></p> <p>Win absolutely nothing by entering this extremely expensive competition competition. Robot Juice will not send you a full range of our cycling and motorcycle oils and lubricants as we do not exist. But just for fun.</p> <p>Which Film is our address made up from?</p> <ul style="list-style-type: none"> <li>a. Armageddon</li> <li>b. Harry Potter</li> <li>c. The Simpsons (Movie)</li> </ul> <p>answers on a postcard please</p> <p><i>Figure 82 - mobile poll.js result</i></p>
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#### Review.js





What is being tested?	Document ready function
Why is it being tested?	To make sure that the document correctly finishes loading
Expected outcome	The webpage should receive an alert saying done to confirm the webpage has finished loading
Did it work? (Yes/No)	Yes
Actual outcome	The web page correct receives an alert indicating it has finished loading
Reflection / changes	
Evidence	 <p><i>Figure 83 - test result</i></p>
What is being tested?	Load review's function



Why is it being tested?	To make sure that the JavaScript can correctly call and run the load reviews function.
Expected outcome	The JavaScript should display an alert when it runs the load review function.
Did it work? (Yes/No)	Yes
Actual outcome	The code correctly runs and displays the alert message
Reflection / changes	
Evidence	 <p>Figure 84 - test result</p>
What is being tested?	Accessing API
Why is it being tested?	To make sure that the JavaScript can call the API and open it so that the data can be obtained to load the extra reviews.
Expected outcome	An alert should display to let the user know that the API has been accessed successfully by the computer.
Did it work? (Yes/No)	Yes
Actual outcome	The JavaScript correctly accesses the API and displays the alert as intended by the test
Reflection / changes	
Evidence	 <p>Figure 85 - test result</p>
What is being tested?	Adding and displaying reviews
Why is it being tested?	To make sure that the reviews are added to product page correctly
Expected outcome	The reviews should look like the already visible reviews.
Did it work? (Yes/No)	No
Actual outcome	The append adds all the reviews on the same index level instead of having the reviews contained within the article tags.
Reflection / changes	The JavaScript needs to be updated to allow the relevant elements to be added as children of the article using a secondary loop or child function.



Evidence	<div>  <p> <span>★★★★★</span>            This Juice just keeps me going...         </p> <p> <small>             Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et.           </small> </p> </div> <hr/> <div>  <p> <span>★★★★★</span>            Great Greace!!         </p> <p> <small>             Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et.           </small> </p> </div> <hr/> <div>  <p> <span>★★★★★</span>            Dave         </p> <p> <small>             I am not good enough to tell the difference between a bad and good oil, but it works.           </small> </p> </div> <hr/> <div>  <p> <span>★★★★★</span>            Ann Other         </p> <p> <small>             Its slippery.           </small> </p> </div>
	<p><i>Figure 87 - review addition test</i></p>
What is being tested?	That the footer and sub section move below the new reviews
Why is it being tested?	To make sure that the JavaScript correct adds classes to the elements
Expected outcome	The JavaScript should add a class to the sub and footer that should set the positions of the sections to below the added reviews
Did it work? (Yes/No)	Yes
Actual outcome	The JavaScript correctly adds the class to the elements which correctly moves the sections
Reflection / changes	A second for loop was created that could add the elements in-between the article tags by using an id identifier and placing the relevant review in-between the correct article.

Evidence	<div data-bbox="440 195 1385 636">  <div> <div>★★★★</div> <div>Maggie</div> </div> <p>I'm not sure if it's the oil or something else, but my bike seems to be making more noise than before I started using this product.</p> </div> <div data-bbox="440 338 1385 478">  <div> <div>★★★★</div> <div>Sam</div> </div> <p>This bike oil is good, but not great. I've used better products in the past.</p> </div> <div data-bbox="440 485 1385 625">  <div> <div>★★★★★</div> <div>Chris</div> </div> <p>I love this cycle oil, it's affordable and gets the job done. Highly recommend!</p> </div> <div data-bbox="440 678 1385 947"> <div>  <div> <div>Latest Reviews</div> <p>Cycling magazine has given Robot Juice a 5 star rating in its latest reviews of dry lubricants. Robot Juice Dry Lube was rated the highest out of over 40 top brand dry lubs.</p> </div> <div> <div>Links</div> <p> <a href="#">Edge Hill University</a>  <a href="#">Dave Walsh</a>  <a href="https://twitter.com/walsh_d">https://twitter.com/walsh_d</a>  <a href="#">CIS1110 - Web Design and Development module</a> </p> </div> </div> <div> <div>           Robot Juice Fictitious Products Not Ltd., Unit 9<sup>3</sup>/<sub>4</sub>, Privet Drive, Little Whingeing, Surrey DN18 5RP            Telephone: +44(0)1695 657648. Email: <a href="mailto:walshd@edgehill.ac.uk">walshd@edgehill.ac.uk</a> </div> <div> <a href="#">Contact Us</a>   <a href="#">Privacy</a>   <a href="#">Terms &amp; Conditions</a>   <a href="#">Accessibility</a>            Copyright © 2018 Dave Walsh. Design by Dave Walsh         </div> </div> </div> <p>Figure 88 - move test</p>
What is being tested?	The JavaScript works correctly for the mobile version of the site.
Why is it being tested?	To make sure that the mobile version of the site works the same as the desktop version
Expected outcome	The JavaScript should add the reviews below the current ones and move the sub and footer section below them all
Did it work? (Yes/No)	Yes
Actual outcome	The code correctly runs like the desktop version by moving the sub and footer sections and displaying the reviews.
Reflection / changes	Reviews could be made to be more space efficient

## Evidence



\*\*\*\*\*

Chris

I love this cycle oil, it's affordable and gets the job done. Highly recommend!



## Latest Reviews

Cycling magazine has given Robot Juice a 5 star rating in its latest reviews of dry lubricants. Robot Juice Dry Lube was rated the highest out of over 40 top brand dry lubs.

## Links

[Edge Hill University](#)

[Dave Walsh](#)

[https://twitter.com/walsh\\_d](https://twitter.com/walsh_d)

[CIS1110 - Web Design and Development module](#)

Robot Juice Fictitious Products Not Ltd., Unit 9<sup>3</sup>/<sub>4</sub>, Privet Drive, Little Whingeing, Surrey DN18 5RP

[Contact Us](#) | [Privacy](#) | [Terms & Conditions](#) | [Accessibility](#)

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Figure 89 - mobile test for review.js


## Validation testing

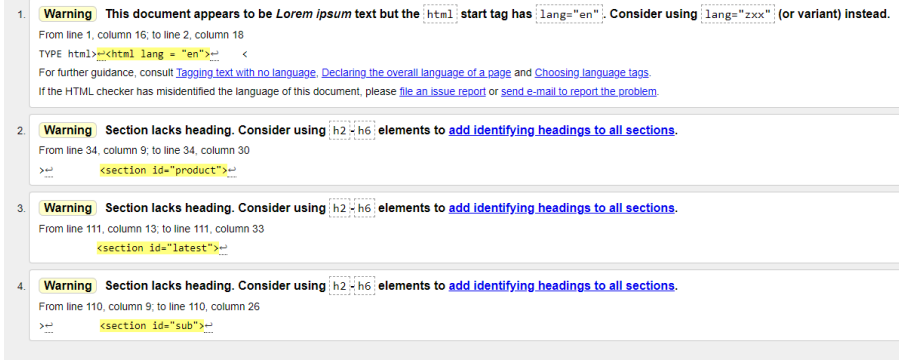
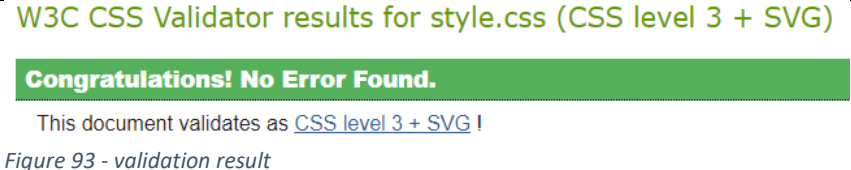
Validation testing is needed to evaluate the finished product to check whether it meets the requirements that were set before the development took place (tutorialspoint, 2023). To validate the robot juice website, first the html, CSS and JavaScript needs to be tested to make sure it passes validation checks. If all the documents validate correctly then the website will have passed most of the requirements as shown in the figure below.

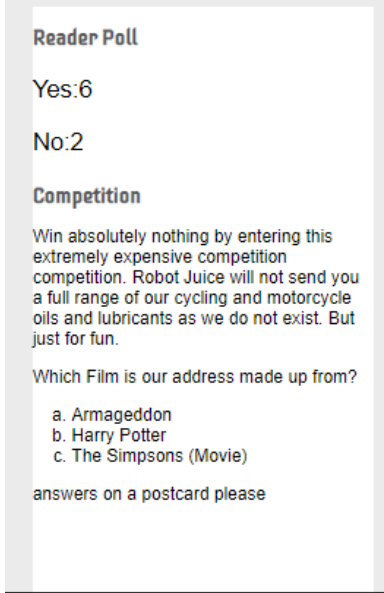
The website that you develop must:

- Implement the following features:
  1. A landing page with the filename `index.html` using the design provided on the VLE.
  2. A page with the filename `product.html` using the design provided on the VLE.
  3. Two CSS files with the filenames `grid.css` (containing the grid structure using `css-grid-layout` and `flexbox`) and `style.css` (for general styling of the two pages).
  4. A JavaScript file `reviews.js` that loads the review comments into the `product.html` page.
  5. A JavaScript file `poll.js` that implements the poll feature on the `index.html`.

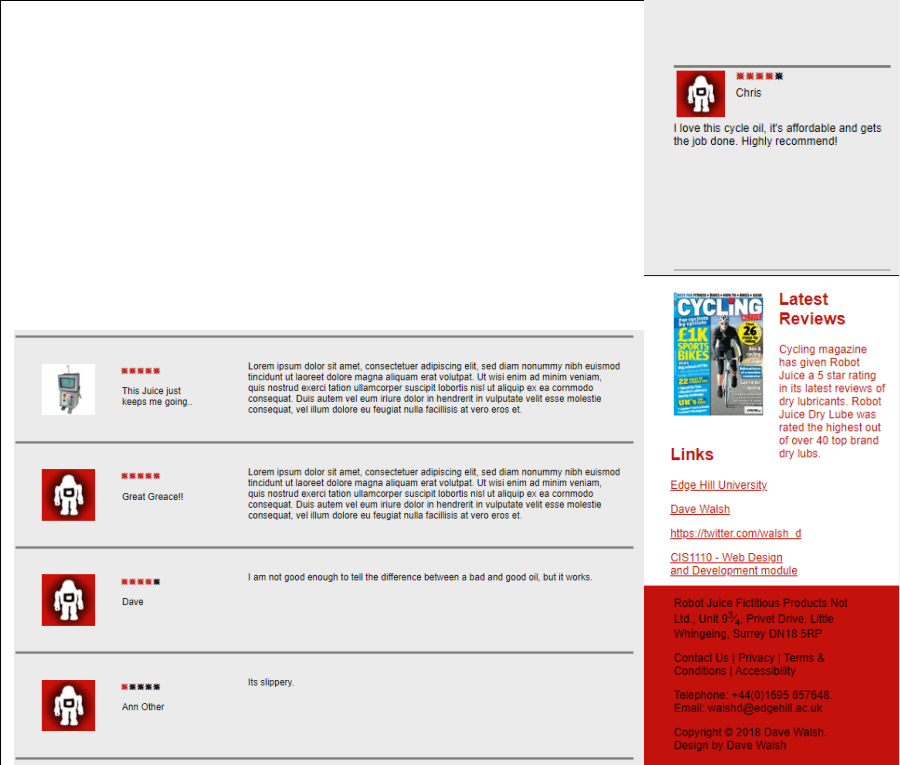
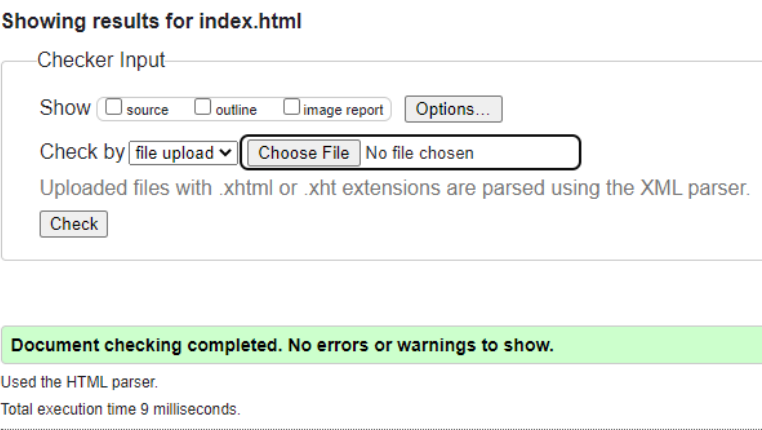
Figure 90 - Requirements list for Robot Juice webpage (Walsh, 2022).

What document is being validated?	index.html
How is it being validated?	Using a html validator <a href="https://teaching.computing.edgehill.ac.uk/validator/html/#file">https://teaching.computing.edgehill.ac.uk/validator/html/#file</a>
Did the document validate?	No
Reflection/changes	The code did not validate due to some small warning about sections needing headings, this will be fixed by adding some small heading to the sections to make sure everything validates with no warnings
Evidence	 <p>1. <b>Warning</b> Section lacks heading. Consider using <code>h2</code> - <code>h6</code> elements to <a href="#">add identifying headings to all sections</a>. From line 39, column 9; to line 39, column 29 &gt;...&lt; <code>&lt;section id="images"&gt;</code>&lt;...&lt;</p> <p>2. <b>Warning</b> Section lacks heading. Consider using <code>h2</code> - <code>h6</code> elements to <a href="#">add identifying headings to all sections</a>. From line 87, column 9; to line 87, column 28 &gt;...&lt; <code>&lt;section id="poll"&gt;</code>&lt;...&lt;</p> <p>3. <b>Warning</b> Section lacks heading. Consider using <code>h2</code> - <code>h6</code> elements to <a href="#">add identifying headings to all sections</a>. From line 112, column 13; to line 112, column 33 ...&lt; <code>&lt;section id="latest"&gt;</code>&lt;...&lt;</p> <p>4. <b>Warning</b> Section lacks heading. Consider using <code>h2</code> - <code>h6</code> elements to <a href="#">add identifying headings to all sections</a>. From line 111, column 9; to line 111, column 26 &gt;...&lt; <code>&lt;section id="sub"&gt;</code>&lt;...&lt;</p> <p>Figure 91 - validation result</p>
What document is being validated?	product.html

How is it being validated?	Using a html validator <a href="https://teaching.computing.edgehill.ac.uk/validator/html/#file">https://teaching.computing.edgehill.ac.uk/validator/html/#file</a>
Did the document validate?	No
Reflection/changes	The code did not validate due to some small warning about sections needing headings and the language being wrong as there are some Latin written in the reviews paragraph. This will be fixed by adding some small heading to the sections and removal of the Latin words, to make sure everything validates with no warnings
Evidence	 <p>Figure 92 - validation result</p>
What document is being validated?	styles.css
How is it being validated?	Using a CSS validator <a href="https://teaching.computing.edgehill.ac.uk/validator/css/#validate_by_upload">https://teaching.computing.edgehill.ac.uk/validator/css/#validate_by_upload</a>
Did the document validate?	Yes
Reflection/changes	
Evidence	 <p>Figure 93 - validation result</p>
What document is being validated?	grid.css
How is it being validated?	Using a CSS validator <a href="https://teaching.computing.edgehill.ac.uk/validator/css/#validate_by_upload">https://teaching.computing.edgehill.ac.uk/validator/css/#validate_by_upload</a>
Did the document validate?	Yes
Reflection/changes	

Evidence	<p>W3C CSS Validator results for grid.css (CSS level 3 + SVG)</p> <p><b>Congratulations! No Error Found.</b></p> <p>This document validates as <a href="#">CSS level 3 + SVG</a> !</p> <p><i>Figure 94 - validation result</i></p>
What document is being validated?	poll.js
How is it being validated?	By making sure that the JavaScript runs on all of the webpages and in both layouts
Did the document validate?	Yes
Reflection/changes	The JavaScript was able to run on in both layout variations of the website
Evidence	 <p><i>Figure 95 - poll.js test</i></p>
What document is being validated?	reviews.js
How is it being validated?	By making sure that the JavaScript runs on all of the webpages and in both layouts
Did the document validate?	Yes
Reflection/changes	The JavaScript was able to run on in both layout variations of the website



Evidence	 <p>Figure 96 - review.js test</p>
What document is being validated?	index.html
How is it being validated?	Using a html validator <a href="https://teaching.computing.edgehill.ac.uk/validator/html/#file">https://teaching.computing.edgehill.ac.uk/validator/html/#file</a>
Did the document validate?	Yes
Reflection/changes	Headings were added to the html and given a class so that the CSS could hide the headings from the screen
Evidence	<p>Showing results for index.html</p>  <p>Figure 97 - validation result</p>

What document is being validated?	product.html
How is it being validated?	Using a html validator <a href="https://teaching.computing.edgehill.ac.uk/validator/html/#file">https://teaching.computing.edgehill.ac.uk/validator/html/#file</a>
Did the document validate?	Yes
Reflection/changes	Headings were added to the html and given a class so that the CSS could hide the headings from the screen. The Latin was removed and replaced with English text.
Evidence	<p>The tool is an ongoing experiment in better HTML checking, and its behavior format</p> <p><b>Showing results for product.html</b></p> <p>Checker Input</p> <p>Show <input type="checkbox"/> source <input type="checkbox"/> outline <input type="checkbox"/> image report <input data-bbox="954 636 1057 663" type="button" value="Options..."/></p> <p>Check by <input data-bbox="651 684 764 711" type="button" value="file upload"/> <input data-bbox="781 684 899 711" type="button" value="Choose File"/> No file chosen</p> <p>Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.</p> <p><input data-bbox="553 762 623 789" type="button" value="Check"/></p> <p><b>Document checking completed. No errors or warnings to show.</b></p> <p>Used the HTML parser.</p> <p>Total execution time 39 milliseconds.</p> <p><i>Figure 98 - validation result</i></p>


## Browser testing

According to McPeak (2017), browser testing is a way of quality assurance for websites over multiple browsers. It is used to ensure that the website remains functional and similarly designed on a variety of browsers for different devices.


For the browser testing each page of the website will be tested on a variety of web browsers, with both mobile and desktop layouts being tested on each browser. The test will make sure that the design is the same on each webpage for all screen sizes, and that the website remains functional. The website was built and tested using google chrome and therefore does not need to be tested in the browser testing as the website already works on chrome. If any changes are made to the website, then it will need retesting in chrome.

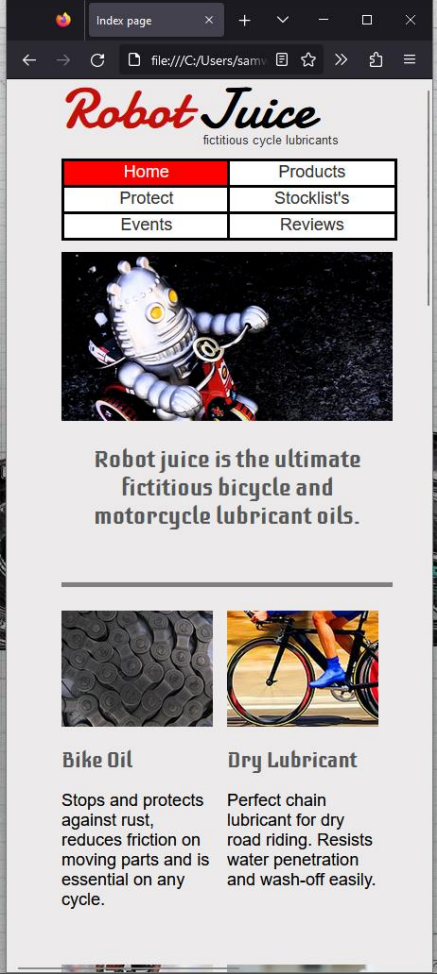
index.html


Which browser is the page being tested on?	Microsoft Edge
Which layout is being tested?	Desktop
Did it work?	Yes

Reflection	The browser correctly displays the website the same way as it does in google chrome. The poll functions as it should and the links to other sites work for those with web URLs attached to them.
Evidence	 <p>Figure 99 - Microsoft edge index desktop page test</p>
Which browser is the page being tested on?	Microsoft Edge
Which layout is being tested?	Mobile
Did it work?	Yes
Reflection	The browser correctly displays the website the same way as it does in google chrome. The poll functions as it should and the links to other sites work for those with web URLs attached to them.

Evidence	 <p>Figure 100 - Microsoft edge index mobile page test</p>
Which browser is the page being tested on?	Mozilla Firefox
Which layout is being tested?	Desktop
Did it work?	Yes
Reflection	The browser correctly displays the website the same way as it does in google chrome. The poll functions as it should and the links to other sites work for those with web URLs attached to them.

Evidence	 <p>Figure 101 - Firefox index desktop page test</p>
Which browser is the page being tested on?	Mozilla Firefox
Which layout is being tested?	Mobile
Did it work?	Yes
Reflection	The browser correctly displays the website the same way as it does in google chrome. The poll functions as it should and the links to other sites work for those with web URLs attached to them.

Evidence	 <p>Figure 102 - Firefox index mobile page</p>
Which browser is the page being tested on?	Opera
Which layout is being tested?	Desktop
Did it work?	Yes
Reflection	The browser correctly displays the website the same way as it does in google chrome. The poll functions as it should and the links to other sites work for those with web URLs attached to them.

Evidence	 <p><i>Figure 103 - opera index desktop page test</i></p>
Which browser is the page being tested on?	Opera
Which layout is being tested?	Mobile
Did it work?	Yes
Reflection	The browser correctly displays the website the same way as it does in google chrome. The poll functions as it should and the links to other sites work for those with web URLs attached to them.

## Evidence

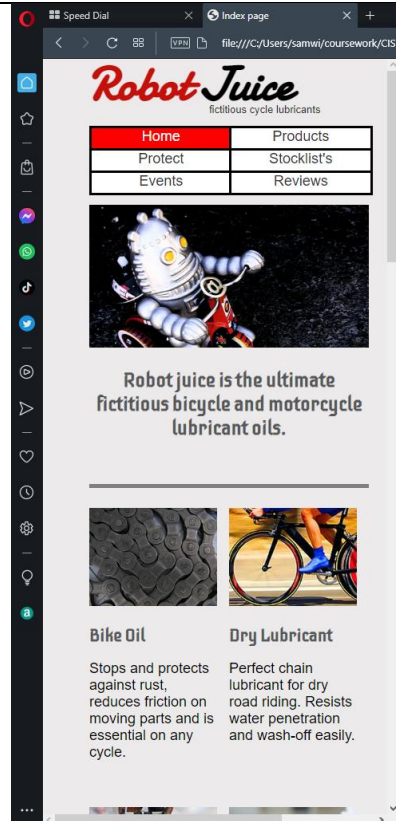
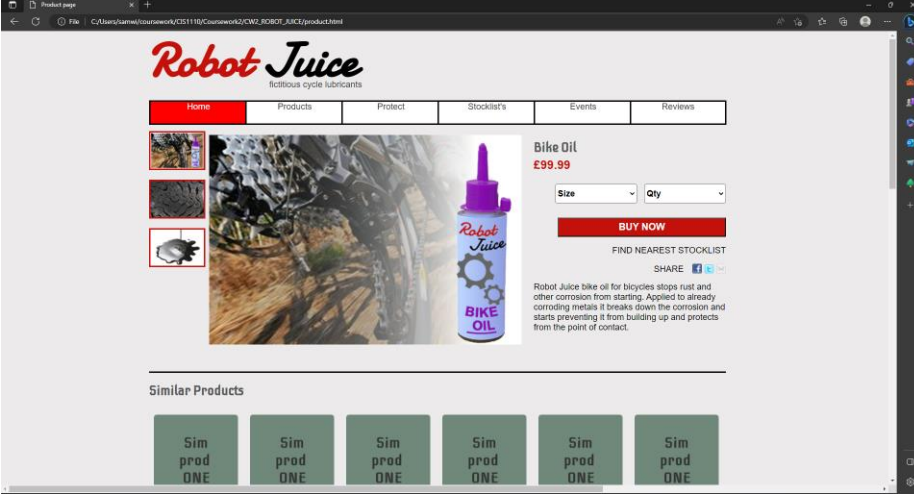


Figure 104 - opera index mobile page test

product.html

Which browser is the page being tested on?	Microsoft Edge
Which layout is being tested?	Desktop
Did it work?	Yes
Reflection	The browser correctly displays the website the same way as it does in google chrome. The poll functions as it should and the links to other sites work for those with web URLs attached to them.



Evidence	 <p>Figure 105 - Microsoft edge product desktop page test</p>
Which browser is the page being tested on?	Microsoft Edge
Which layout is being tested?	Mobile
Did it work?	Yes
Reflection	The browser correctly displays the website the same way as it does in google chrome. The poll functions as it should and the links to other sites work for those with web URLs attached to them.

## Evidence

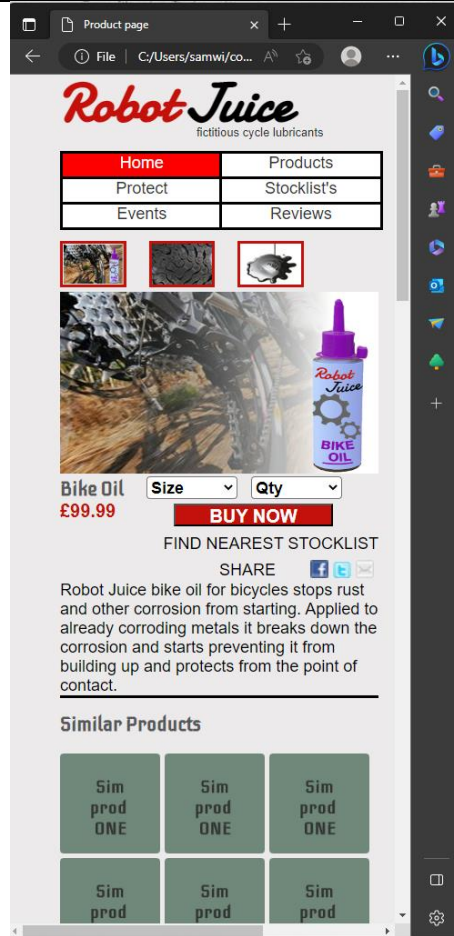
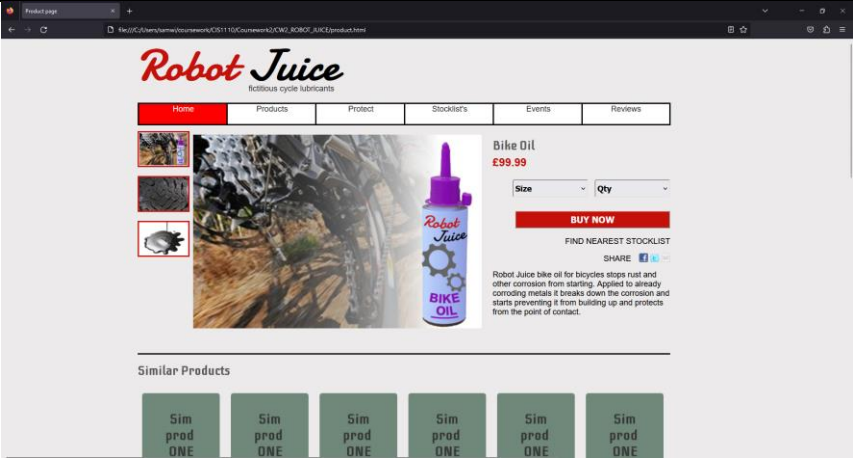


Figure 106 - Microsoft edge product mobile page

Which browser is the page being tested on?	Mozilla Firefox
Which layout is being tested?	Desktop
Did it work?	Yes
Reflection	The browser correctly displays the website the same way as it does in google chrome. The poll functions as it should and the links to other sites work for those with web URLs attached to them.

Evidence	 <p>Figure 107 - Firefox product desktop page test</p>
Which browser is the page being tested on?	Mozilla Firefox
Which layout is being tested?	Mobile
Did it work?	Yes
Reflection	The browser correctly displays the website the same way as it does in google chrome. The poll functions as it should and the links to other sites work for those with web URLs attached to them.

## Evidence



Figure 108 - Firefox product mobile page test

Which browser is the page being tested on?	Opera
Which layout is being tested?	Desktop
Did it work?	Yes
Reflection	The browser correctly displays the website the same way as it does in google chrome. The poll functions as it should and the links to other sites work for those with web URLs attached to them.

Evidence

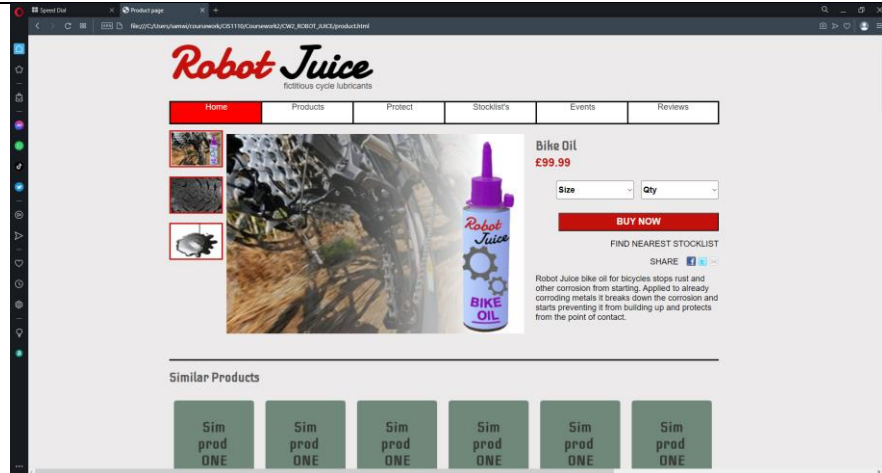


Figure 109 - Opera product desktop page test

Which browser is the page being tested on?

Opera

Which layout is being tested?

Mobile

Did it work?

Yes

Reflection

The browser correctly displays the website the same way as it does in google chrome. The poll functions as it should and the links to other sites work for those with web URLs attached to them.

Evidence

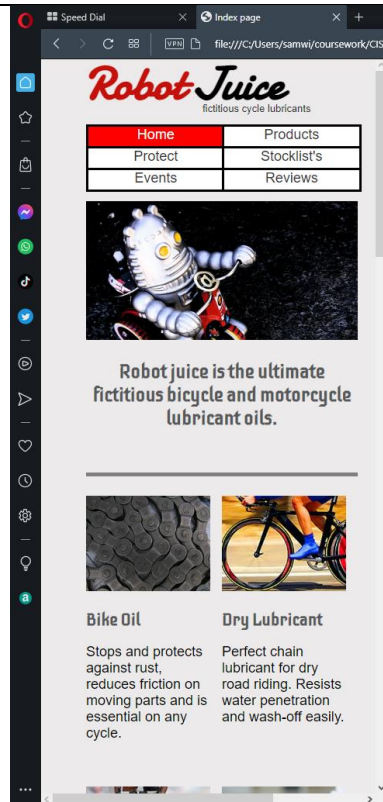


Figure 110 - Opera product mobile page test

## User testing

To determine if the website is user friendly, a usability test must be conducted on the webpage. Usability on the web is assessed by how easy it is to navigate and use a website. Some of the key factors for assessing usability include learnability, efficiency, satisfaction, and errors (Bose, 2022). In order to assess the usability of the robot juice website a number of tasks can be set to see how easy it is to navigate the website.

Accessibility is another element of user testing, as accessibility is important to allow a wider range of users to access the website. General accessibility can be checked using a couple of checks, text alternatives for images, colour contrasts, content sizing and structure (W3C ,2023).

For the usability test of the Robot juice website four tasks have been set which require the user to navigate and operate the website successfully in order to complete them. The four tasks are shown in the table below.

Task number	Task	What will the task assess
1	Find the product review rating given by the user with the username: Amy	This task will assess how easy it is to locate reviews on the product page. It will also assess if users notice the read all reviews button, and how easy it is to navigate to and around the product page
2	How much does the bike oil product cost?	This will assess the user's ability to navigate to and around the product page and if key information is more noticeable than other elements.
3	What is the result of the reader poll? (Please select yes on the poll)	This will test the user's ability to navigate the index page and the usability of the poll itself.
4	What is the Telephone number for the company?	This will assess how easy it is to find more discreet information on the web page as the phone number is located in the footer of the page.

To make the tests dependable each tester will start with a different test and use a different layout. With a total of four different users to test the usability, two will use the mobile layout and two will use the desktop layout.

### User1 - Desktop

Task number	How easy was it to complete the task?	How long did it take to complete the task?	Notes?
1	User1 found it was reasonably easy to find the review.	Approximately a minute	User1 tried to use the reviews link instead of the product list to try and find the review.
2	User1 found this task to be very easy	Less than a minute.	As User1 already knew how to access the product page this task was less difficult

			than others. The user stated that the price information stood out which made the task easier.
3	Easy	Less than a minute	The user quickly found the poll on the index page and was able to select the yes option and find the result without any difficulty
4	Harder to complete than expected	Couple of minutes	The user had some difficulty with finding the telephone number. They stated that they thought that the text could be bolder in the footer to make it stand out more.

#### User2 - Desktop

Task number	How easy was it to complete the task?	How long did it take to complete the task?	Notes?
4	Harder than expected	About a minute	User stated that the details in the footer was a bit difficult to read and they should be larger
2	The user found this task to be a little difficult	Approximately a minute	The user originally tried to use the bike oil image to get to the product page. When this did not work the user then noticed the product section of the header and from there, they were able to quickly find the price
3	Quite easy	Less than a minute	User 2 quickly located the poll on the index page and was able to find the result with ease after selecting the yes option.
1	More difficult than it should have been	A couple of minutes	User2 first tried using the reviews link in the navigation element which currently has no link attached. The user then proceeded to scroll around the index page and thought that the product reviews image could be a link to the reviews page. After this the user then clicked on the product link on the navigation and found the correct review.

#### User3 - Mobile

Task number	How easy was it to complete the task?	How long did it take to complete the task?	Notes?
2	easy	A minute	User3 found the price of the bike oil with relative ease. They did try and use the bike oil image on the index page to access

			the product page, when this did not work, they quickly found the navigation bar link to the product page
1	Very easy.	Less than a minute.	User3 used the product link first and found the review quite quickly and with minimal difficulty.
4	Easy	Less than a minute	The user quickly found the footer by scrolling to the bottom of the screen. The user did note that the footer elements could be bolder to make them stand out more from the red background.
3	Very easy	30 seconds	User3 found the poll quickly by scrolling down the page as it appeared in the centre of the screen. From there the user quickly found the results of the poll.

#### User4 - Mobile

Task number	How easy was it to complete the task?	How long did it take to complete the task?	Notes?
3	Relatively easy	About a minute	User4 found the poll quite easily by scrolling through the index page. They originally did not notice the poll until scrolling back up the page. From there they were easily able to get the results.
4	Very easy	Less than a minute	As the user had previously seen the footer section containing contact information they instinctively scrolled to the bottom of the screen and found the telephone number quickly. The user did say that the content could be more easily visible to the user.
2	Easy	Less than a minute	The user quickly found the product section on the navigation for the webpage. This allowed them to move to the product page quickly and locate the price.
1	Easy	Approximately a minute	User4 first tried using the reviews link in the navigation element which currently has no link attached. The user then used the product link on the navigation and found the correct review.

Overall, the website seemed to be very usable by all users. Some users had more difficulty than others, this may be down to the design or the order of tasks. The main issue brought up by the users was that



the footer elements could have been bolder, with some users also noting that the navigation should be better implemented especially for finding reviews. The accessibility of the website was also noted to be of a reasonable standard by users. This was due to the way that the website was laid out with key defining differences between different content sections with different colours contrasting. There could have been more visual elements to the site such as when hovering over the navigation bar.

## Reflection

Overall, the website was created successfully with all required elements and functionality included with the site itself. The main issues faced within the creation of the site was making sure that the grid and styles were correctly implemented at the two different screen sizes.

Time management was a large issue when it came to the creation of the page as there would be large periods where no development would take place on the website, instead of having a gradual development. This meant that a large amount of the website was left quite late in the development process leading to some elements having to be rushed to meet deadlines.

The browser testing was restricted by the availability of browsers to have the website tested on. The website was tested on four major browsers meaning most computers should be able to run the website. However, browsers like safari were not available to be tested on so it is unknown whether the site can run on all major browsers.

With regards to the user testing, it would be more ideal to have more users to test the site to get a wider range of opinions and details on the usability of the website. The usability could have been further tested with more tasks for the user to complete on both desktop and mobile versions. The website was also limited from an accessibility standpoint as there was limited accessibility features added. The images did have alternative text available and content sections were clearly separated. However, there could have been more visual responses to user inputs and clearer navigational elements.

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