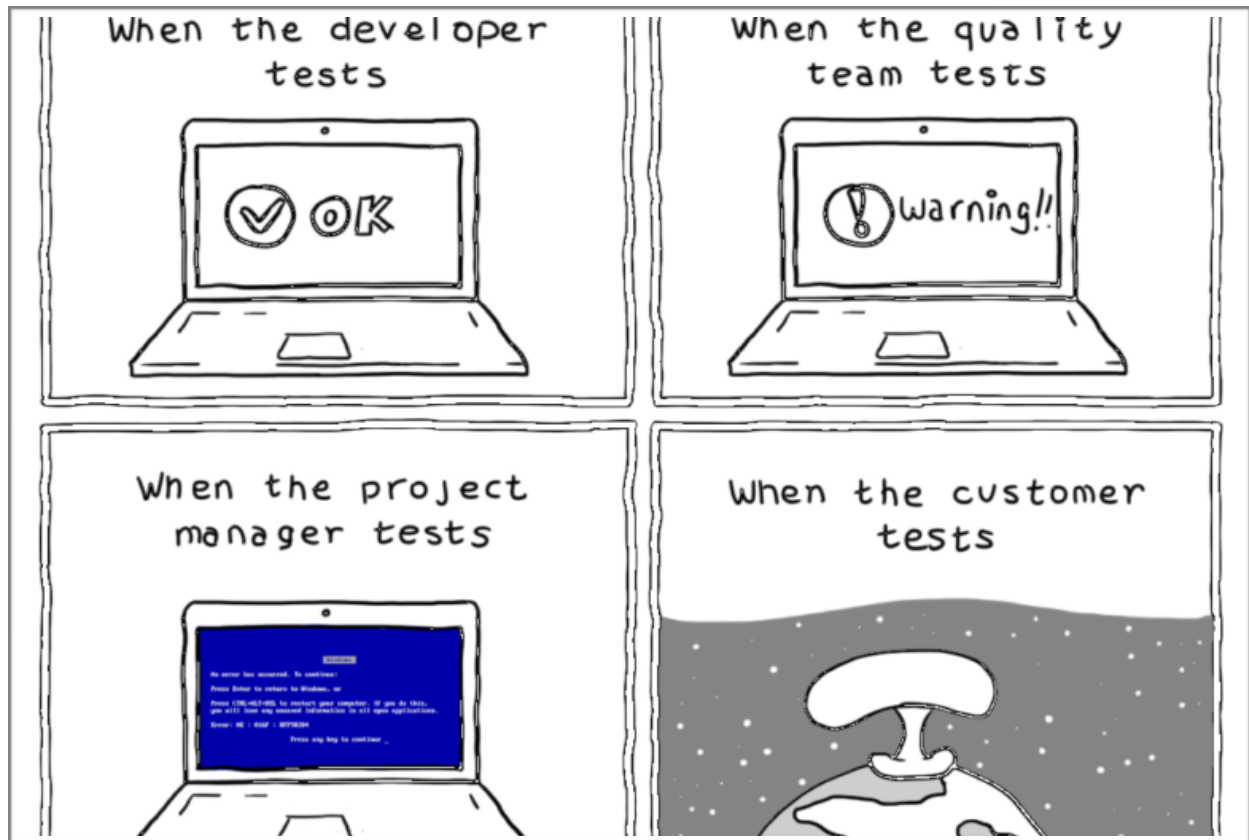


Development and Testing

COM1008 Assignment 1



Source: <https://www.ihaveapc.com/2017/06/how-software-testing-works->

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Development and Testing

University of Sheffield Students Union Building Website

Changes

We haven't made too many changes from the original mock-up, but there are one or 2 things that may have changed.

One thing that didn't remain the same is the logo. At first we planned our website with the SU logo and even developed it with the SU logo, but after the testing we decided that it's maybe it is not the best idea, considering legal issues. We decided to create our own logo.



First banner Fig. 1

This is how our banner with the menu looked in the first place and we changed it to this one:



Second banner Fig. 2

It may not be the best looking logo, but it is for educational purposes only and serves the job.

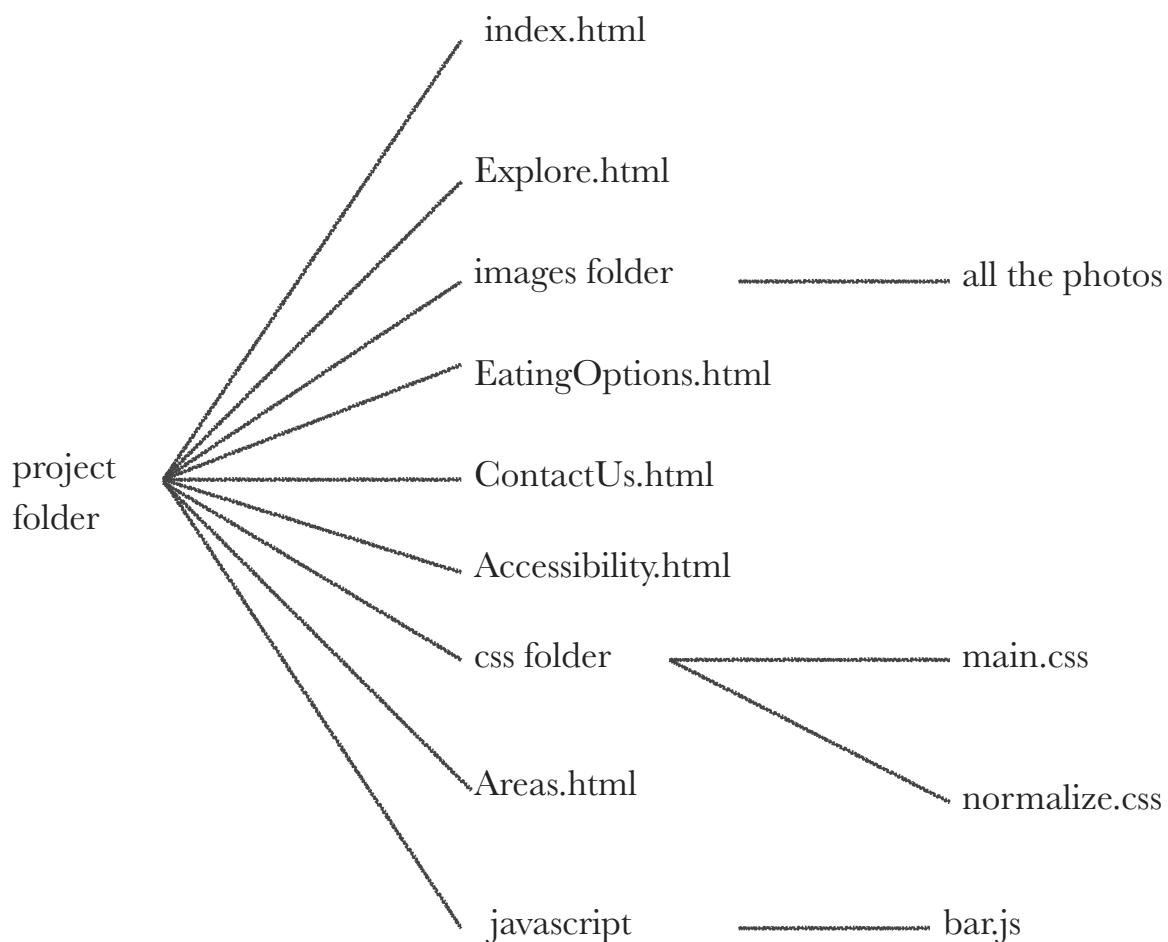
Another change is that we considered the search bar within such a small website useless, so we decided to put social media buttons instead which convey more usage in today's world. You can see this change in both figure 1 and 2. One more problem that we encountered was the fact that we could not get the perfect landscape picture with the Students Union Building that we wanted below the banner and the menu, the height was always a problem. The template that we mocked-up did not change too much, but we had a lot of disputes over the content.

Organisation

As this our first functional website, on the development part of this project we did a lot of pair coding because we didn't really know how to work independently without messing with each others work.

“The Normalize.css stylesheet also removes browser inconsistencies for HTML elements, but instead of removing everything like CSS Reset, normalize.css will preserve some useful defaults. Normalize.css was created to make built-in browser styling consistent across all browsers. A lot of people in the tech community refer to Normalize.css as “the new reset.””^[1] This is what Daphne Watson wrote for medium.com and that is also the reason why we decided to use the normalize.css

We used javascript to create the drop-down menu on the mobile design. We also included a <noscript> tag in case someone does not have javascript implemented in the browser or has the javascript disabled, he or she can still navigate on the website. There is also a site map in the footer of the website for any case.



File structure tree Fig.3

This is the file structure that we made. We tried to organise our main CSS as much as possible with relevant comments of sections that are styled and by the use of economic properties.

Optimisation

For the speed of our loading page we have used the [Optimus WordPress Image Optimizer](#), to compress our photos so that the loading times of the webpages would be faster and the people with a low data on mobile would not hate our website.

Another optimisation we have done to our website is that we have cut the unnecessary code in our HTML/CSS/JS files.

We have optimised the Areas and Food webpages with a menu that helps the user navigate the content really easily by just clicking on something that he is interested in. After clicking on the title that is of interest, the page will jump to the content. Also the menu on the desktop version has a sticky position so it will always be visible.

A vertical list of menu items for the desktop version. Each item is enclosed in a box with a horizontal line above and below it. The 'View Deli' item is highlighted with a dark background.

Eating Options
Inox Dine
View Deli
Grill 'n' GO
New Leaf
Bar One
Pearls Bubble Tea
Interval Bar Cafe

Jump Menu for desktop Fig. 4

A horizontal list of menu items for the mobile version. Each item is enclosed in a box with a horizontal line above and below it. The 'Eating Options' item is highlighted with a dark background.

Eating Options
Support Services
Teaching spaces
Our Shop
The theatre

Jump Menu for mobile Fig. 5

In figure 4 you can see the menu for the desktop version and in figure 5 you can see the one for the mobile version.

Security

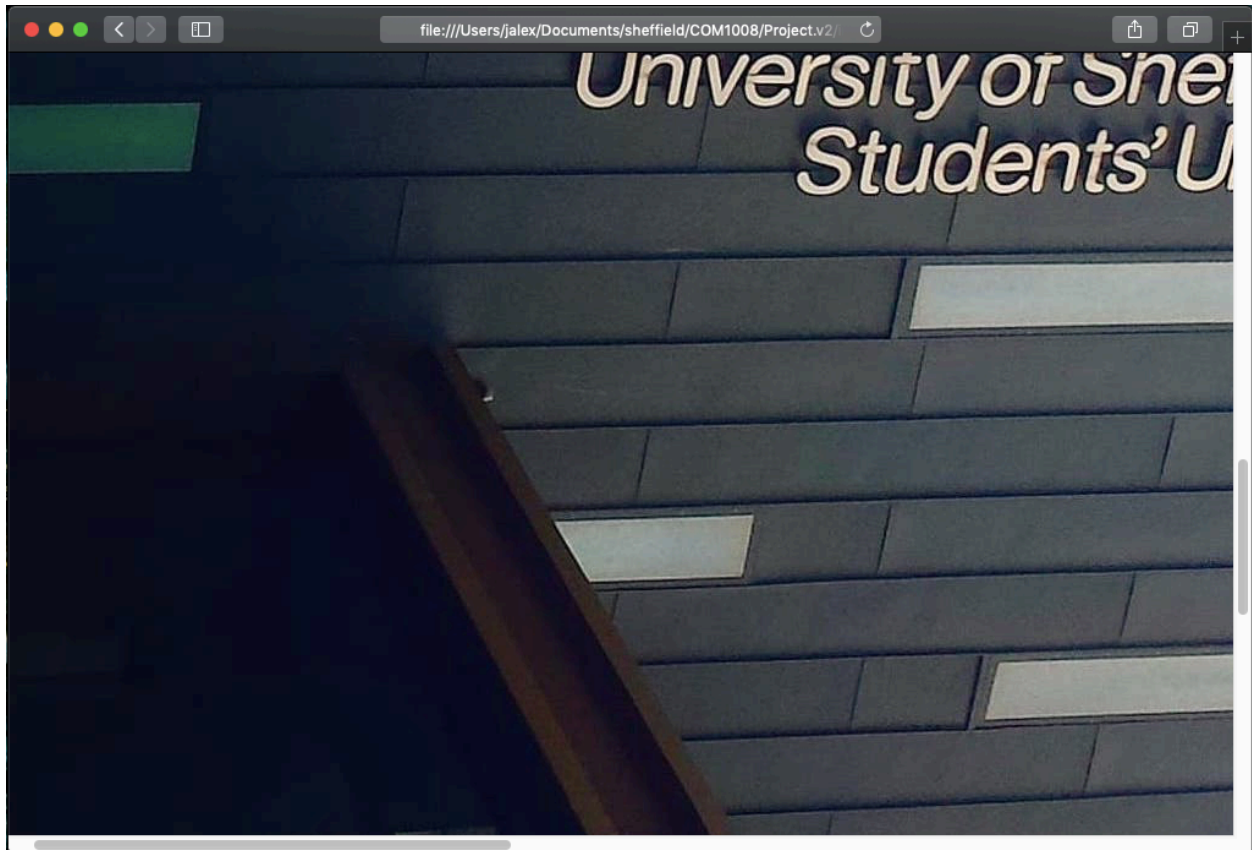
If we were to host this website, we would of course choose to have HTTPS protocol for security reasons. The main reason why we would choose to have the HTTPS protocol is that we have a form on our website and we want our data to be encrypted.

Testing

We tested our website on the last 2 versions of: Google Chrome, Mozilla Firefox, Safari, Microsoft Edge and Internet Explorer. The tools we used to test our responsive web design were

the Mozilla Developer Tools and Safari Technology Preview. This means we have tested the website on both Windows and MacOS machines.

We tested the website without the stylesheets and without the javascripts. For the javascript all went pretty good as you can see in figure 6, everything works accordingly. But when we disabled the styles....



Index page with Styles Disabled Fig.6

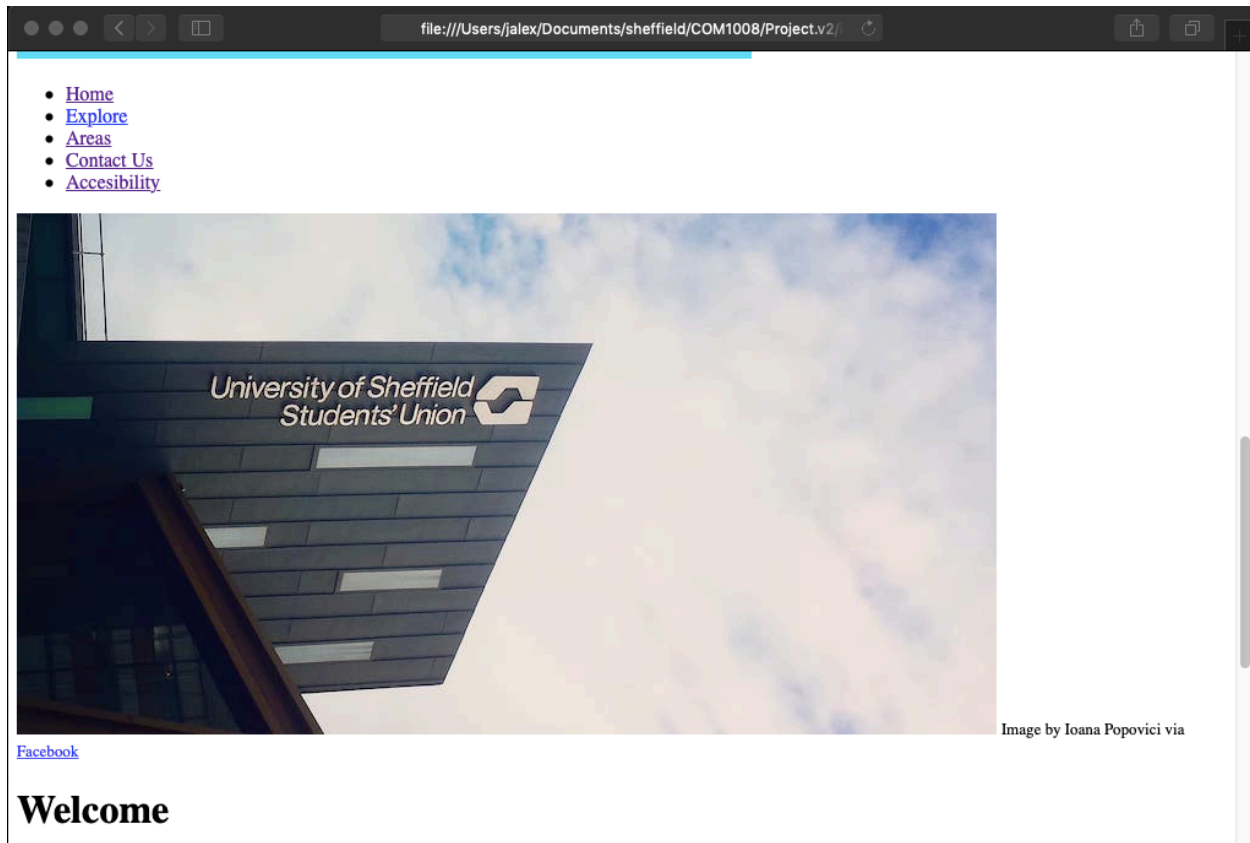
You can clearly see that there is a lot of scrolling involved up and down plus left and right. The resolution of the pictures was too big so we had to make it lower to have the website navigable without the style sheets.

This is how we made our website navigable even when the styles are turned off (figure 7), no more left and right scrolling and also, this resizing helped the loading times too. The no script is definitely running perfect.

Enable javascript for a better experience.



noscript for mobile Fig. 6



Index page after resize Fig.7

We didn't document the testing part with too many screenshots because as soon as we had a problem with something not looking like we wanted it to look, we were too keen to solving the problem than remembering we also have to write the testing documentation. We encountered a lot of problems in the development stage, problems like not seeing how certain properties were inherited so we didn't know why something was totally out of control.

Bibliography/References

^[1] Daphne Watson., (©2016) CSS Normalize & CSS Reset [online] [medium.com](https://medium.com/@DaphneWatson/css-normalize-css-reset-which-one-do-you-prefer-6e8cc593ac41) [Viewed 17 Nov 2018] Available from: <https://medium.com/@DaphneWatson/css-normalize-css-reset-which-one-do-you-prefer-6e8cc593ac41>