Josh Taylor P2447145 Tech 2015 Multimedia Coursework 2

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Introduction

For TECH2015's coursework 2 assignment, the task of creating a website based on a previous prototype was given. This report outlines information about the creation of the website for '67 Degrees', a coffee shop website. The website itself features a high amount of JavaScript, CSS/SVG animations and adapts to all screen sizes, and was carefully created to ensure there was consistent feedback throughout the process.

Design

For this website to be effective, it was important for it to have many interesting features whilst having a good design, which was simple and not too cluttered, as said in feedback from the prototype. Therefore, the website presented a challenge to ensure the design was relatively simple, but sustained the coffee theme for its desired audience, which was a 'working' and 'business' audience of students and adults.

To ensure a simple design was seen in the outcome, a sidebar menu was added onto the pages in mobile form, which was suggested from early feedback. This would help ensure that space wasn't wasted on the mobile site, making it less cluttered. The main menu for desktop/laptops is a 'sticky' menu, so that when users are on some of the longer pages on the site, they are able to easily navigate without having to scroll, which is useful for the mobile and main site.

Additionally, as the prototype for the website was said to have too much text, there was a priority to ensure each page contained a high amount of media and no unnecessary text. This, as well as the use of buttons to reveal features that are otherwise hidden, was all aimed to make the website have an interesting design and interface.



Figure 2 - Main Menu, before adding the Sidebar



Figure 1 - Sidebar menu added after feedback

Production

In the production of the website, it was important to include a high amount of functionality to ensure the site was unique and interesting. Therefore, the website features a quiz, PDF download, modal boxes, map page, slideshow, randomised prize, animations and more.

SVG/CSS Animations

To make the website more interesting and developed, a high amount of animations were used. The SVG animations on the website can be seen mostly on the menu page and the logo. These were all created using GreenSock, which allows simple animations to be used with JavaScript. In this instance, the 'drink' and 'food' items seen on the site were designed using Adobe Illustrator, then saved as SVG's, where it would then be possible to animate the separate layers of each SVG. For example, they were used to make the drink items seem to 'fill up' with their coffee contents when the modal boxes opened. Due to the ease and success of GSAP's JavaScript animations, other simple animations are seen throughout the website, which make button clicks and popups more interesting and guide the user to the important functions.

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Figure 4 - Use of SVG created from Illustrator

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    triplement.meditecticitatems("clock", hostics)) {
        describe: ;
        describe
```

Figure 3 - Use of GSAP animations for SVG's

Some CSS animations are also seen throughout the website, such as on the slideshow, however these are only basic. For example, when the modal boxes open, they have a simple fade and slide animation, which helps add to draw the users attention to the point of interest. Altogether, all the animations used on the site were a success, as they proved to be simple but very effective in drawing in users interest when the website was tested.

```
.FadeAnimation {
    -webkit-animation-name: FadeAnimation;
    -webkit-animation-duration: 1.5s;
    animation-name: FadeAnimation;
    animation-duration: 1.5s;
}

@-webkit-keyframes FadeAnimation {
    from (opacity: .4}
    to (opacity: 1)]
}

@keyframes FadeAnimation {
    from (opacity: .4)
    to (opacity: 1)
}

/* On smaller screens, decrease Caption size */
@media only screen and (max-width: 300px) {
    .caption (font-size: 11px)
}
```

Figure 5 - Use of CSS Animations

Responsive Design

To further sustain the design of the website and ensure it was always at its most effective, every page on the website is responsive to the size of the screen. To do this, flex box/flex wrap was used, as this evenly distributes elements no matter what screen size and allows the layout to change. Alongside this, media queries were used, so that once the width of the screen reached a specific

pixel value, attributes of the websites elements would change, so that the website fitted the screen in a more effective way. Finally, different size values such as 'view width (vw)' and percentages were used for text and elements. Altogether, this meant that all of the pages content would adapt to the screen size gradually, until it reached the limit set by media queries, where the flex-wrap property would change the structure of its layout.

This was very successful, as can be seen when the website is inspected, as the design of the website adapts well to mobile, laptop and desktop screens. This effect also proved to be successful when tested on users, all giving very positive feedback.



Figure 9 - Menu Page, Mobile Layout



Figure 8 - Menu Page, Laptop/Tablet Layout



Figure 10 - Menu Page, Desktop Layout

```
/*small screen - phone */
@media screen and (max-width: 600px) {
    #button1, #button2{
        width: 60%;
    }
    #button3, #button4{
        width: 50%;
    }
} /*media screen - tablet */
@media screen and (min-width: 601){
    #button1, #button2,{
        width: 40%
    }

#button3, #button4{
        width: 45%;
    }
}
/*large screen - Laptpop or desktop */
@media screen and (min-width: 1200px) {
    #button3, #button4{
        width: 25%;
}
#button1, #button2,{
        width: 20%
}
```

Figure 6 - Use of Media Queries



Figure 7 - Use of Flexbox/Wrap

JavaScript

JavaScript is used heavily throughout this website, such as on the quiz, the modal boxes, the reward randomiser, the map images and more. The use of JavaScript was important, as this makes the website far more interactive with the user, as they have to engage with the website to view it properly. All use of JavaScript was researched using w3schools to help gain knowledge and view

examples, which helped ensure that the JavaScript is used more effectively; such as with the modal boxes, where one function can be used for each individual modal.

A lot of the JavaScript relies on arrays and loops. This is used simply in the reward randomiser, where a random image is selected from an array when a button is clicked. This is also used in the code for the quiz, where after a series of functions, questions are displayed in order as the user progresses through the quiz.

Altogether the use of JavaScript was effective and enabled the site to be more interesting for the user, as each page contains buttons to press and ways to engage directly with the page. Again, after testing this with some users, there were many positive responses, showing that it helped create an effective website.

Figure 13 - JavaScript for Modal Boxes

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```

Figure 12 - JavaScript for Quiz Questions

```
function Millionsystes)

document_getilementhy[df("operingfilemes").Somewhole..." 'CstromgeHillion Reynes Opening Times//strong-chr/Honday: 80:80-33:80chr/Honsday: 80:30-33:80chr/Hondady: 80:30-33:8
```

Figure 11 - JavaScript for replacing map images

Evaluation

HTML Checkers/CSS Checkers

Once the website was fully completed, the code for each pages HTML and CSS were done to ensure that there were no minor, unseen errors. After correcting these minor issues, the code was put back through the checkers to track progress, where the code now has no errors. (All errors associated with the HTML page are due to 'invalid file locations' – as images, CSS files, etc, were not uploaded with it).

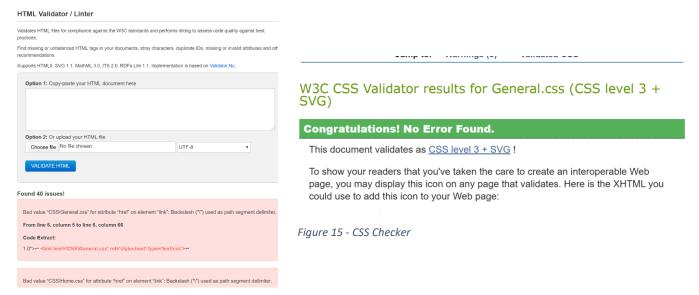


Figure 14 - HTML Checker

Optimising Media and Testing Links

Further efforts were made after the website was completed to ensure it was ready for submission. For example, every image used on the website have been optimised to ensure they have a low file size. Additionally, the video used was chosen at a low resolution and edited to be the required length. This means that the website has a smaller loading time. Additionally, tests were done to ensure that all links, media forms and CSS files worked once the site was uploaded to the public HTML.



Figure 17 - Optimised Images

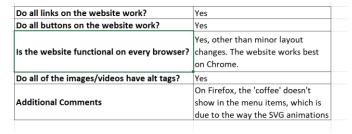


Figure 16 - CSS, Link Testing

User Testing

There were 3 times when the website was formally tested on users throughout the creation of the website, although informal questions were often asked too, to ensure that the site had a larger amount of feedback and hence would be most effective for users.

The first testing was after the website was just a menu, where users revealed that a separate menu would be better for mobile size, leading to the creation of the sidebar menu. The second test was after the completion of the first page (the menu), revealing that the sidebar mobile menu was effective, and the responsive design and animations were all proving very effective. The final testing came after the completion of the website, where very positive feedback proved that the website was a success.

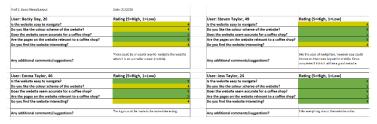


Figure 20 - Responses Testing 1 (After Menu Creation)



Figure 18 - Responses Testing 2 (After Menu Page Creation)

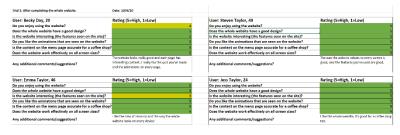


Figure 19 - Responses 3 (After Website Completion)

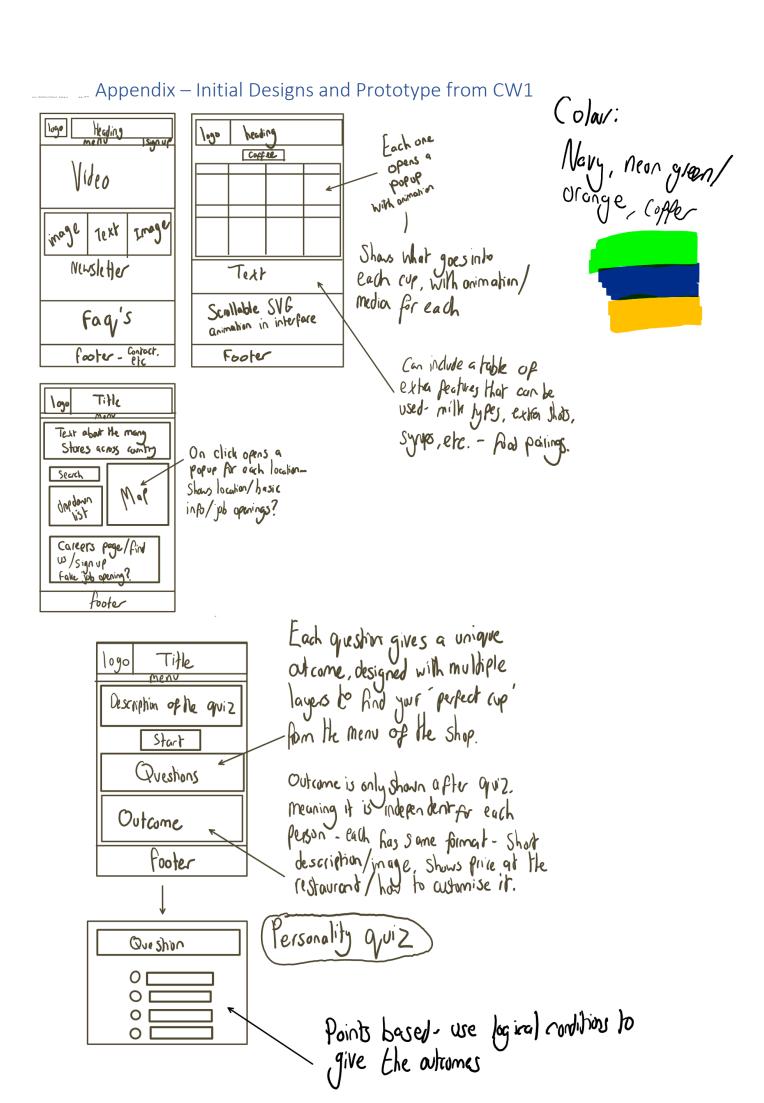
Conclusion

The website was in total a success, with the feedback from users showing to be very positive. Overall, the main goals that were set in the coursework brief were all achieved whilst also making an effort to reduce file size, making it accessible to all audiences by adding alt tags and trying to have a high amount of user feedback whilst improving on feedback from the original prototype.

Although there were a lot of challenges, such as trying to ensure the JavaScript was used most effectively and learning how to include GSAP animations, these became achievements of the website as confidence grew. In future, further effort could be made into decreasing the loading time by using even more smaller file sizes, such as only using SVG's, although it is believed that the high amount of animations are a slight limitation to the site as they increase the size of the JavaScript files.

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Original Prototype









67* Degrees was found only 5 years ago, with its first store opening in Leicester, in 2014. Since then, an additional seven stores have opened across the UK, and this is only the start, with plans for more stores to be openingtin 2020, and years to come. To see why we're getting so popular, be sure to visit one of our stores, so you can be part of our growing community.

Visit one of our stores across the UK to supprt us and become apart of the 67° Degrees community. Click below to see where we are on the map:

> Leicester Milton Keynes Milton Keynes Birmingham London Manchester Leeds Edinborough Bristol

Leicester Store opening times Monday - Friday: 08:00 - 21:00 Saturday: 08:00 - 20:00 Sunday: 09:00 - 17:00



WHY SHOULD YOU JOIN OUR COMMUNITY?

At 67° Degrees, we believe that coffee is an extremely important part of life. We ensure our stores are located in convenient spots, so that anyone in the area can visit our

our stores are located in convenient spots, so that anyone in the area can visit our stores.

Whether you come to quickly grab your favourite drink, stay all day to work on an important project, or stay to meet with your friends or family, it quickly becomes apparent how good coffee is at bringing people together.

If you agree with us, why not support us as well as you can? Follow us on our social media pages on Instagram and Twitter and be sure to share and recommend us to your friends and family. Additionally, feel free to contact us about any questions you may have, or if you wish to enquire about helping to expand the 67° Degrees franchise by opening your own store.

We look forward to hearing from you!





Follow us on Instagram and Twitter @67Degrees



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drink?

drink?

Each of our 67 Degree's stores across the UK offer additional syrups and flavourings you can add to your drink, which we update on a monthly basis (as highlighted on our monthly newsletter), giving you special drinks that are unique to 67 *Degree's throughout the whole year.

Additionally, as highlighted on our menu page we offer altermative milks, allowing multiple dairy free options that also are available for vegans and vegetarians.



