



Usability Comparison of a Set of Websites and Implementation of a Usability-Compliant Website

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1. Introduction

Website usability & accessibility are important topics in more than web design; with many websites being non-guideline compliant, it is important to address these issues in a usability-conscience world. The aim of the project is to test the most popular websites of a set & test them using usability tools, then taking the data & criteria to create a more usability/accessibility-compliant site, and testing it against the set's results.

2. Aim & Objectives

To investigate & evaluate a set of websites for their merit against various usability criteria & accessibility guidelines, and the implementation of a usability-compliant website.

3. Objectives

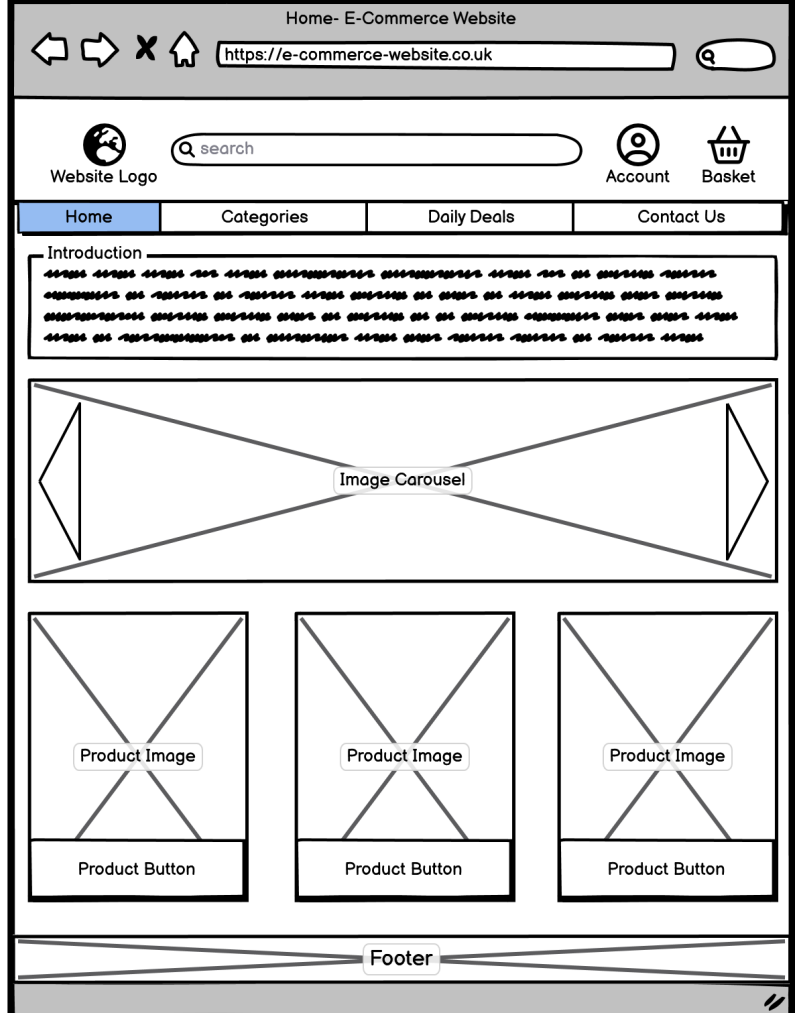
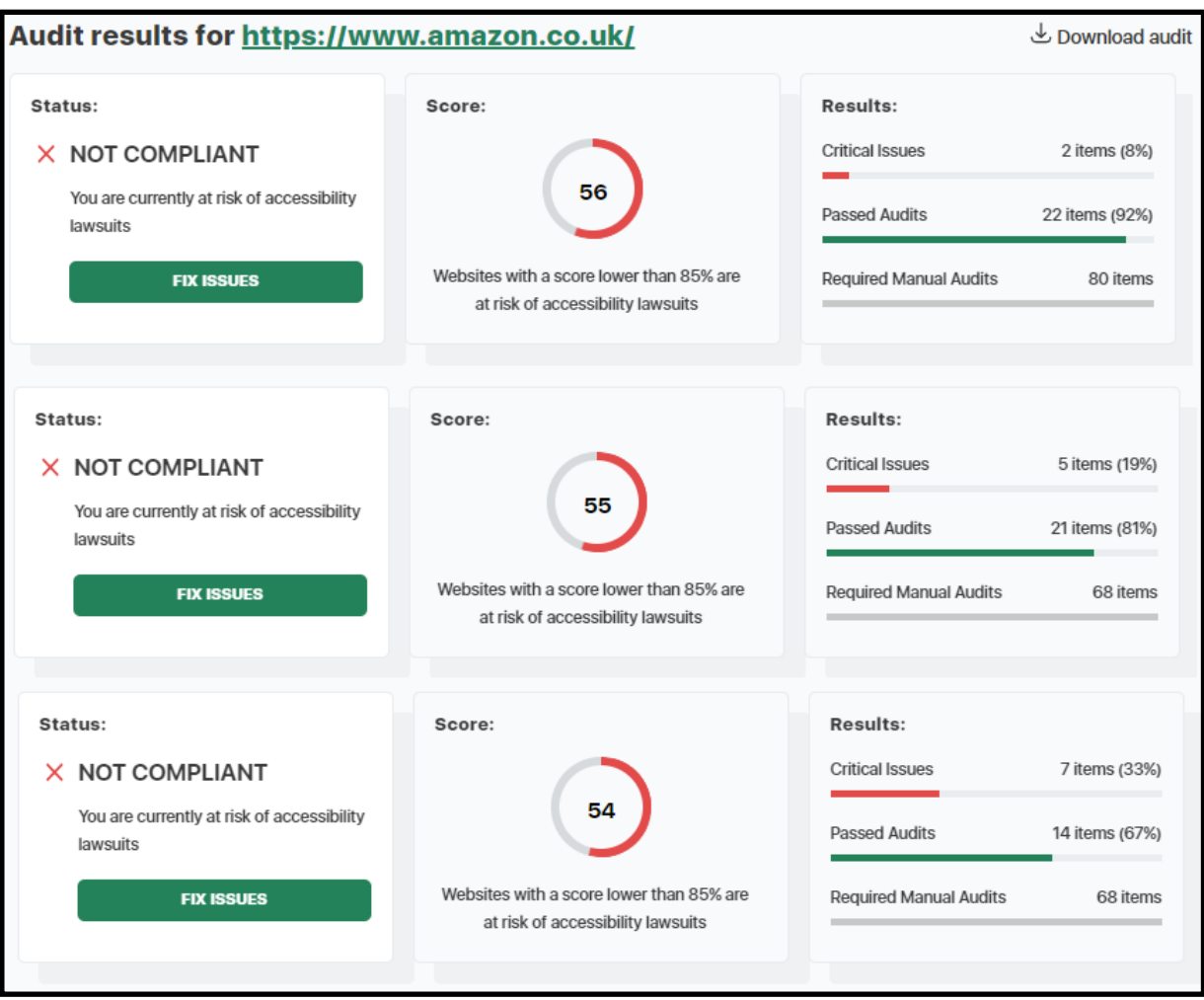
1. Explore various standards in place for viewing & navigating web content.
2. Determine usability & accessibility criteria required to judge the website set against.
3. Evaluate & compare the websites against the criteria found within the standards.
4. Creation of a website concept based on the evaluation of the website set & usability standards.

4. Methodology

The project followed a Positivist research approach, and a mixture of Waterfall & Prototyping development methodologies.

5. Design

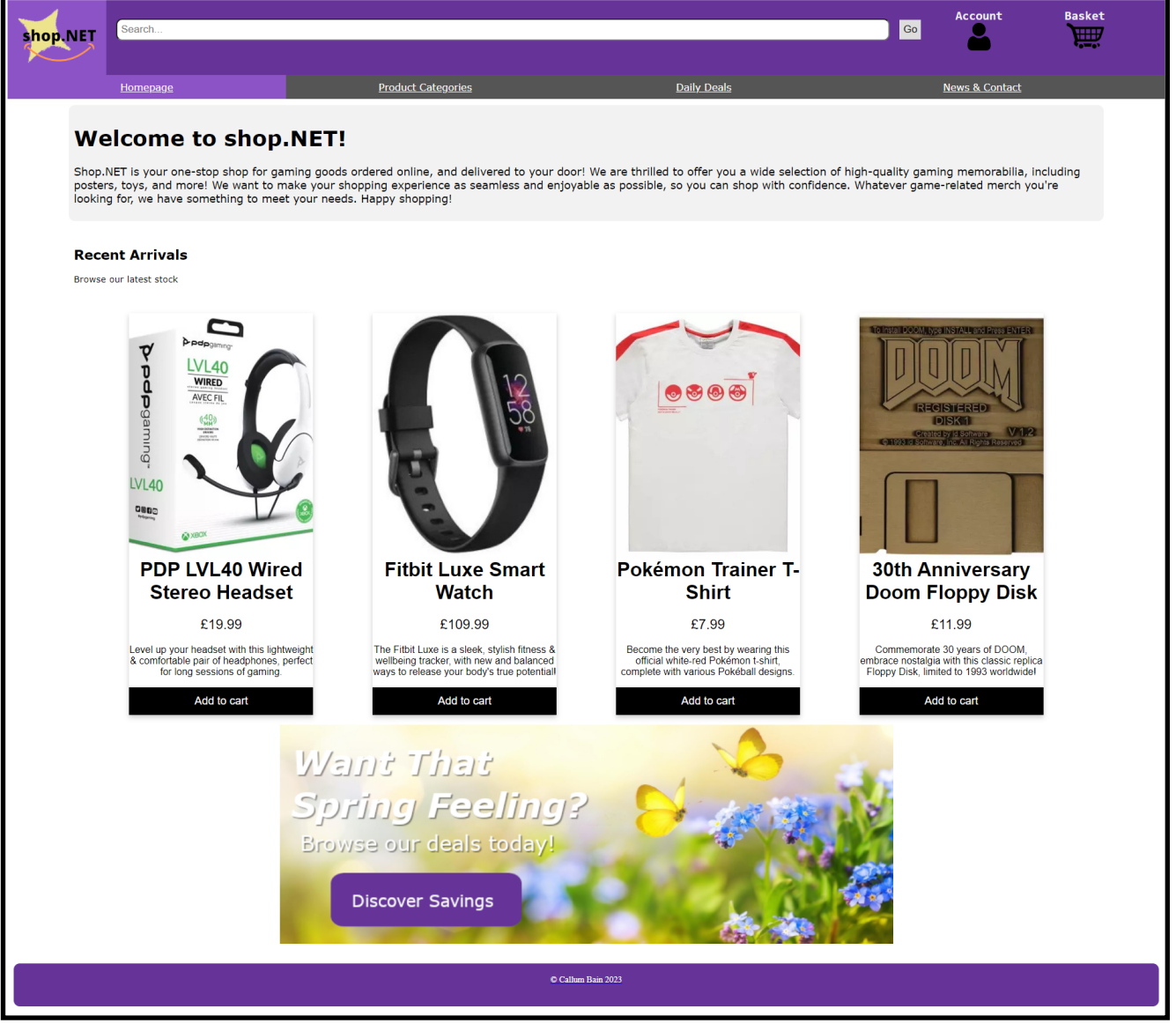
The design aim of the final website focused on fixing visual errors within the pages after testing usability tools on them, as well as assessing guidelines. Wireframe diagrams were created to aid in the final implementation.



6. Implementation

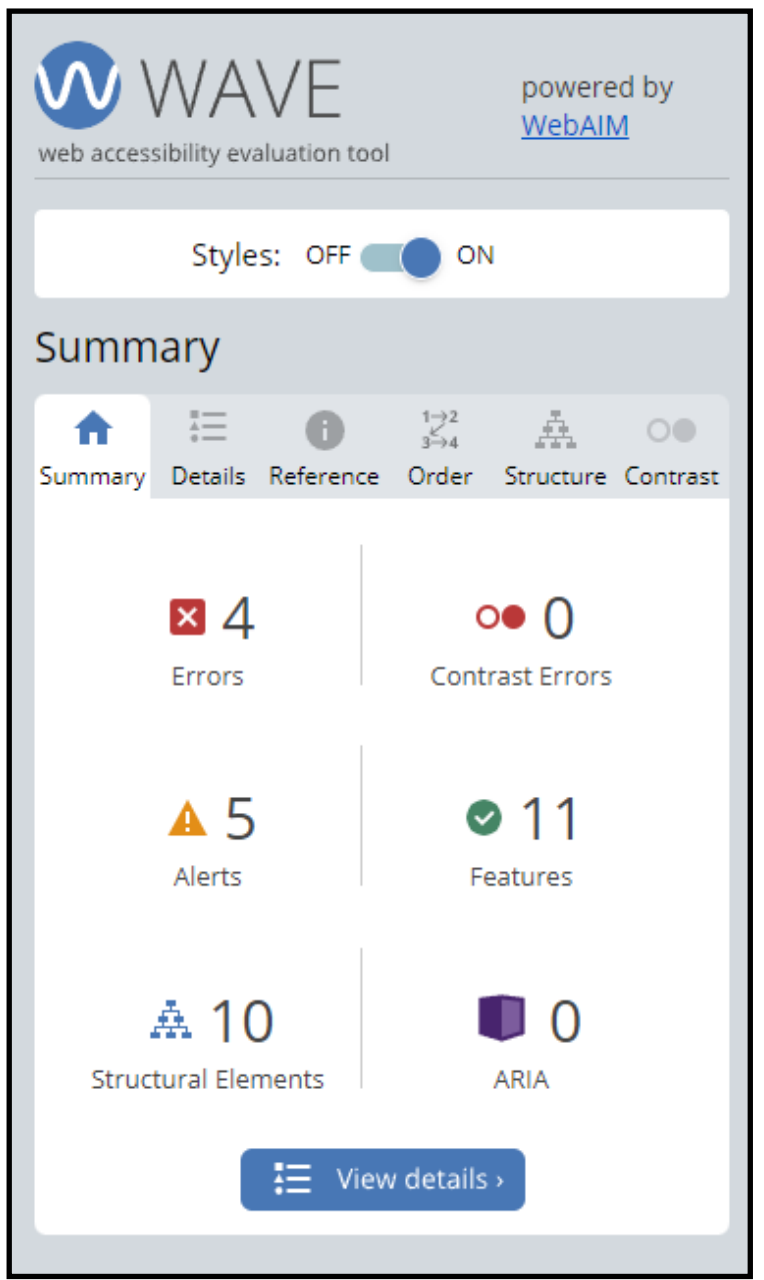
The main environment used to create the website was Notepad++, and the site was created using a combination of HTML, CSS & JS.

```
1 <!DOCTYPE HTML>
2 <html>
3 <head>
4 <!-- Header -->
5 <div class="header">
6 </div>
7 </div>
8 <!-- Navigation Bar -->
9 <div class="navbar">
10 </div>
11 </div>
12 <!-- Body -->
13 <div class="firstbody">
14 </div>
15 <div class="secondbody">
16 </div>
17 </div>
18 <!-- Carousel -->
19 <div class="slideshow-container">
20 <div class="mySlides fade">
21 <img alt="Placeholder for carousel slide" style="width:100%; height:auto; border: 1px solid black;"/>
22 </div>
23 </div>
24 </div>
25 <div class="mySlides fade">
26 </div>
27 </div>
28 </div>
29 <div style="text-align:center">
30 </div>
31 <!-- Footer -->
32 <div id="footer">
33 </div>
34 </div>
35 </html>
```



7. Final Website Evaluation

As part of the final website's evaluation, it was tested on using the usability testing tools. While there were little errors in common with those found within the set, the final website lacked some structural & ARIA elements than the set.



8. Conclusion

Overall, the project as been successful, meeting the set aim and objectives, and proves that future work can be taken on corporate websites to increase usability. Further work can be undertaken from this project, including deeper research into usability/accessibility with integration into modern websites.