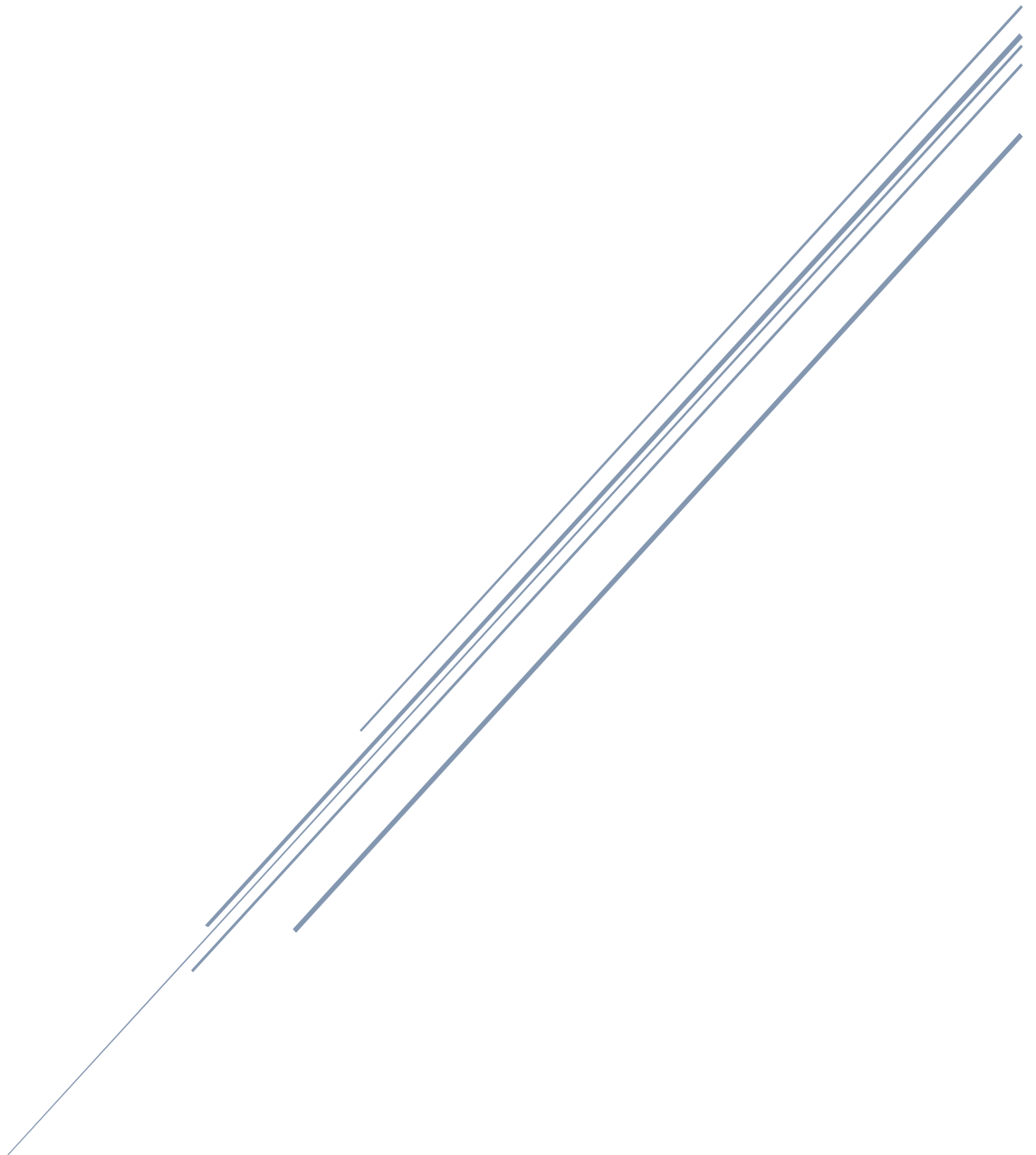


INFORMATION TECHNOLOGY AND SECURITY

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Introduction

This is a report on the website that I will be creating, this report is going to contain information about my website. This report will mention what my website is and will say what I plan on doing with the website. This report will also mention the requirements for the website such as my goals and the target audience. The report will also include a section that includes a screenshot of every webpage on my website along with a validation section where all of the errors will be displayed and how they were fixed if possible. Finally I will include an evaluation section where I go over the website I created mentioning the design, functionality and content provided on the website.

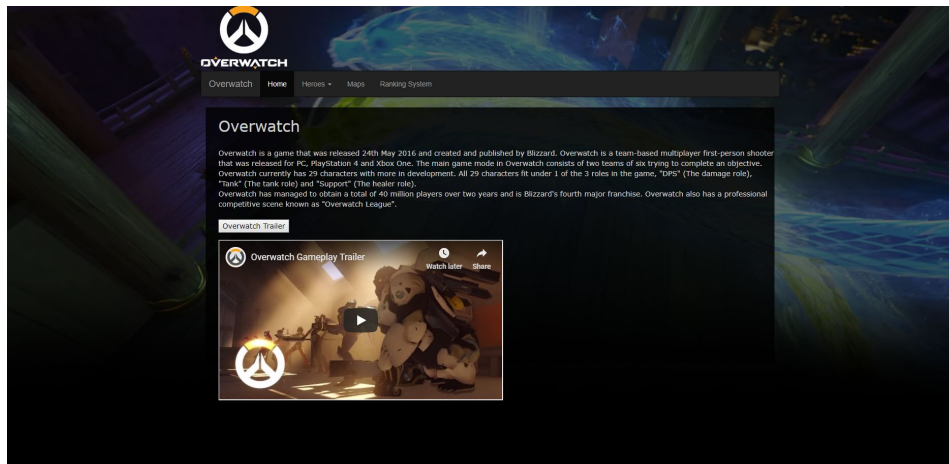
Requirements

The website that I am going to create will be based on the game known as 'Overwatch', a game developed and published by Blizzard Entertainment. With this website I will be providing information on the game such as what the game is, an example of this is mentioning the genre of the game or the characters that are in the game. I plan on creating at least six pages for this website, these pages are the Home page, three pages dedicated to each type of role in 'Overwatch', the maps and game types in Overwatch and finally the competitive ranks and how the ranking system works. The website will also give information on the type of game modes in 'Overwatch' explaining what they are and how they work. The target audience for this website are the people who play the actual game and want more information on certain topics. The target audience could also be for people who do not have the game but are looking for information on it in case they plan on purchasing it. I plan on making the design of the website fairly simple so that users can have an easy time navigating in. Another requirement is to make the information visible by using high contrasts.

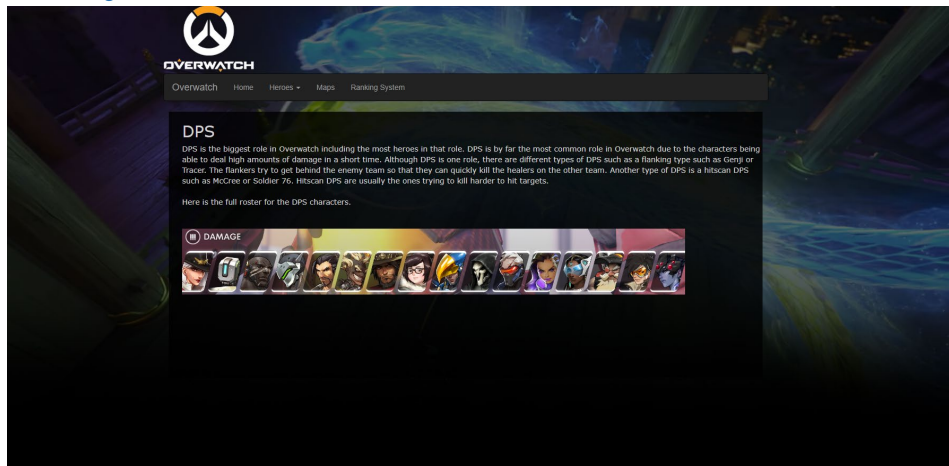
Implementation

Screenshots of Website

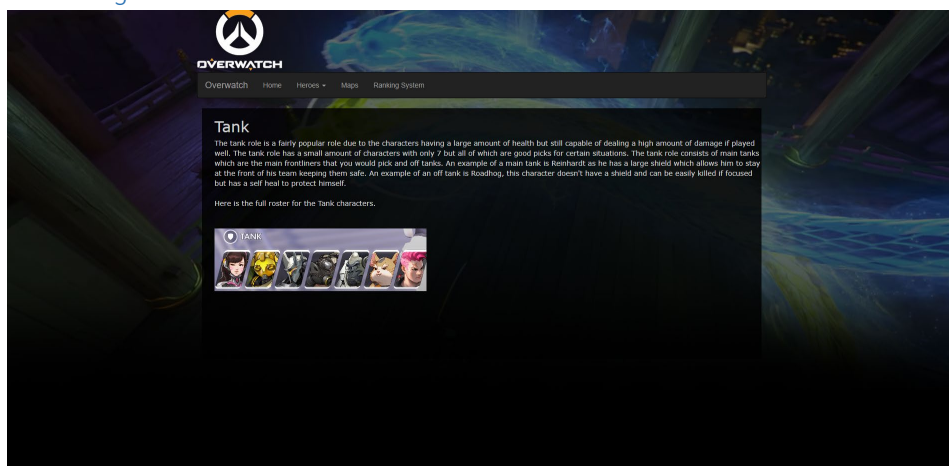
Home Page



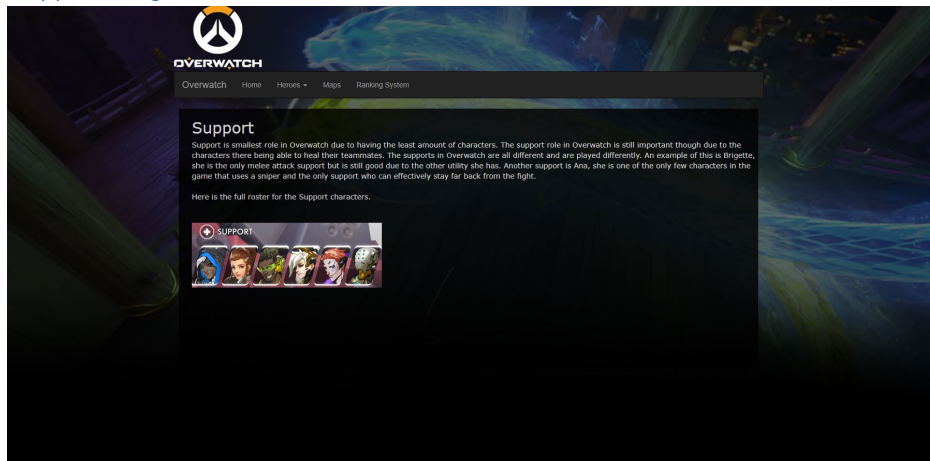
'DPS' Page



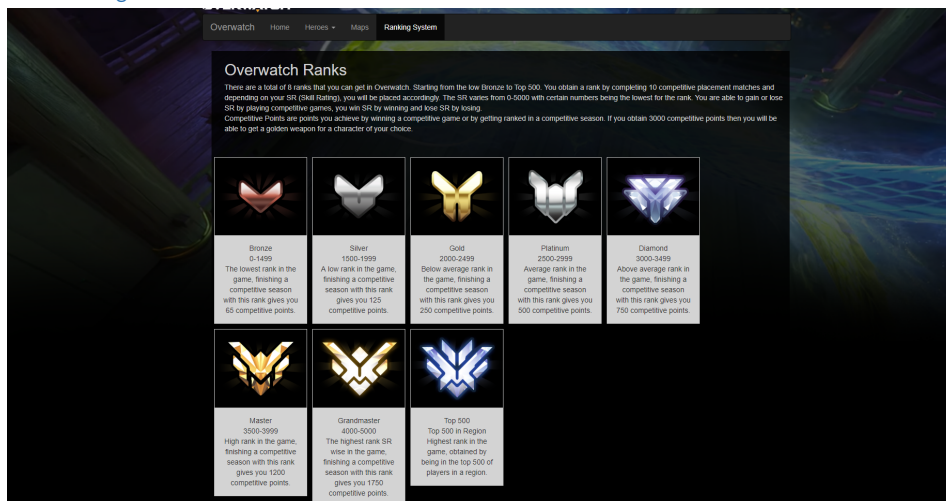
'Tank' Page



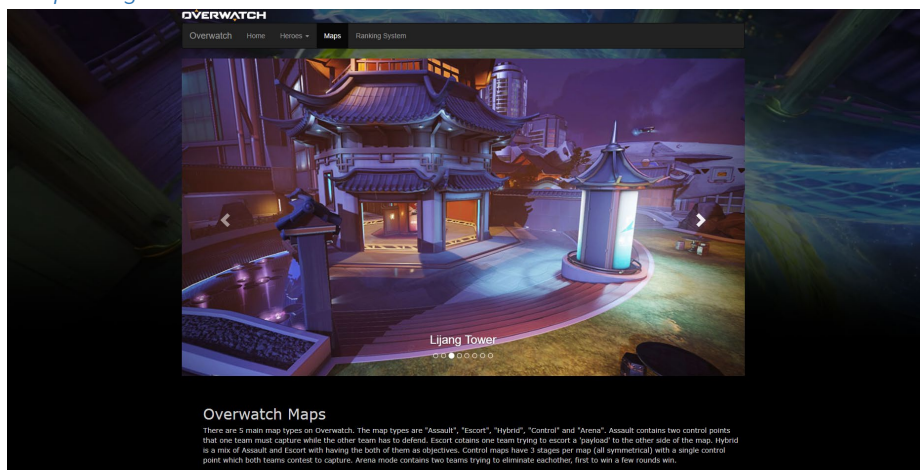
'Support' Page



'Rank' Page



'Maps' Page



Validation

Webpage Validation

1. **Error CSS:** `font-color`: Property `font-color` doesn't exist.

[From line 11, column 14: to line 11, column 18](#)

```
nt-color: white; bac
```

This is the first error that appeared on my website. It claims that 'font-color' doesn't exist so I fixed this just by changing it to 'color' instead.

2. **Error CSS: Parse Error.**

[At line 22, column 13](#)

```
e; left: 25px; </style><head>
```

This error occurred because I didn't close 'iframe' which I had in my styles section.

```
iframe {
    position: absolute;
    left: 25px;
</style>
```

This solution was an easy fix as all I had to do was close it.

- Error Element** `p` not allowed as child of element `h2` in this context. (Suppressing further errors from this subtree.)

[From line 69, column 3: to line 69, column 62](#)

```
> <h2> <p style="color:LightGrey; position:absolute; left: 25px;" >Overwa
```

Contexts in which element `p` may be used:

Where [flow content](#) is expected.

This was another error that I received when validating. This occurred because I had a `<p>` tag open inside of a `<h2>` tag.

```
<h2>
    <p style="color:LightGrey; position:absolute; left: 25px;" >Overwatch</p>
</h2>
```

This was fixed by moving the inline style code that was inside the `<p>` tag into the `<h2>`, after that I then removed the `<p>` tag as it wasn't needed.

- Error** An `img` element must have an `alt` attribute, except under certain conditions. For details, consult [guidance on providing text alternatives for images](#).

[From line 44, column 1: to line 44, column 51](#)

```
ntainer"></img>
```

This error occurred because I didn't add an alt attribute so this was easily fixed by adding one inside the `<img>` tag. [1]

CSS Validation

Congratulations! No Error Found.

My main CSS file contained no errors. [2]

Evaluation

Accessibility Evaluation

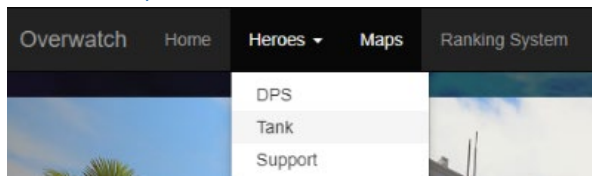
The website that I have created is perceivable, which is the first principle of accessibility [3]. This is because all information on the website is either text or images. The background for the website is very dark with a light grey colour used as text, this means that the contrast for the website is suitable for any user [4] to read including colour blind users. There is also a video on the website which has sound but isn't required. This means that users shouldn't have a problem getting information from my website. The next principle was operable [3]. I believe that the website that I have created is operable because it only requires a mouse to use the navigation bar and one button on the website. The website has no inputs so users wouldn't have to worry about not being able to perform an interaction that they cannot. This website is also understandable, due to the text being large enough for anyone to read and the website being easy to use and navigate. Finally I believe that the website is robust, as technology advanced people shouldn't have a problem using this website and all content will remain accessible.

Personal Evaluation

Design

The overall design for my website is fairly simplistic. The background that I chose for this website was a dark one which I combined with a light grey decent sized text to allow for good contrast. This provides an easy reading experience for anyone including colour blind people. Due to the font size being fairly big, users with eye sight problems shouldn't have a hard time reading through the information. The font size isn't too big as that could lead to an unpleasant reading experience. The navigation bar also sticks with a dark colour with light text as I believe it looks clean. The drop down menu on the navigation bar has inverted colours as I believe it looks better that way because it allows it to stick out.

Functionality



The navigation bar on the website has a drop down section for the web pages of similar categories. I feel that this adds more interaction for the user but is still an easy task for people to use. I have also included a button on the website which I created by using JavaScript. Adding a button to the website also adds more interaction for the user. This buttons purpose is to show a YouTube video but also has the functionality to hide it again just by clicking the button again.

Information

In my requirements I mentioned that I will be creating at least six pages all with information on 'Overwatch'. On the website I created I managed to create all six pages that I planned to do and also provided a decent amount of information on the game as a whole. The website also has external information as it includes the game trailer. The website provides a lot of images with at least one for every page excluding the home page.

Improvements

Although I have provided a decent amount of information on the game 'Overwatch' I still feel I could've added more. Another improvement I could've made was perhaps including a contact page which allows users to ask any more questions that I didn't already answer, this would also provide

more functionality and interaction for anyone who goes onto it. Another thing I could've added which would've improved usability is a two buttons that can make the text either bigger or smaller depending on which ever the current user preferred. This would allow people with bad eye sight to have no problems at all when using the webpages.

Search Engine Optimisation

Search Engine Optimisation is trying to make your website engine friendly to allow your website to get higher up on a search engine such as Google or Bing.

When creating the website I took into account what some companies recommend to do to ensure higher results on the search engine. An example of this is using as many accurate keywords that would suit my website as possible. One thing Google recommended was to make the pages primarily for users instead of the search engine. This is to prevent deceiving users by presenting different content to the search engine. I ensured that all information on my website is relevant and can't possibly deceive users. Another thing Google recommended was to accurately describe the content on my website by using tags such as <title> with descriptive and accurate text. Microsoft recommends that content isn't buried inside of rich media such as Flash Player or JavaScript. I made sure I didn't do this often to make sure that links wouldn't be hidden from crawlers.

References

- [1] "Validator," [Online]. Available: <http://validator.w3.org/>. [Accessed 15 01 2019].
- [2] "CSS Validator," [Online]. Available: <http://jigsaw.w3.org/css-validator/>. [Accessed 15 01 2019].
- [3] "Introduction to Understanding WCAG 2.0," w3, [Online]. Available: <https://www.w3.org/TR/UNDERSTANDING-WCAG20/intro.html>. [Accessed 15 01 2019].
- [4] "Contrast Checker," [Online]. Available: <https://contrastchecker.com/>. [Accessed 16 01 2019].