# Introduction

I have developed a professional website using the using semantic HTML, advanced CSS, web accessibility guidelines and responsive design techniques. I found a simple design will best for a content reading website rather than adding more functionalities which may slow down the reload time.

First, I Planned what important contents to be added and the order how it is placed. I draw wireframe in the beginning then start to develop it, From the beginning of the project I made sure the website is responsive. I added media queries to make it support for phones and tablets. Finally I have done a Web Accessibility check and added more appropriate functions.

I have choose light background color and black color for the texts. Most of the colors used are made sure that it is in 3:1 ratio for more accessibility.

For making the Website Responsive I set the viewport which will fits the devices,



I consider using relative width values, such as width: 100px , to adjust the viewport. For images, I used box sixing: border box attribute to maintain the aspect ratio. I used media quires to make the website responsive for mobile devices and tablets.

@media only screen and (min-device-width : 768px) for Tablets and @media only screen

and (min-device-width : 375px) and (max-device-width : 667px) for phones like Iphone6/7/8.

For Mobile devices, I used a different menu for easy access and responsive.

For the Web accessibility, I used alternative text for the images and website is fully navigable by using only the keyboard.

# Web Accessibility Audit

|  |  |  |  |
| --- | --- | --- | --- |
| WCAG Success Critertion | Level | Evaluation | Comments |
| 1.1.1: Non-text Contents - Provide text alternatives for non-text content | Level A | Pass | 1. All informative Images have alternative texts 2. Alternative text is appropriate |
| 1.3.1 Info and Relationships | Level A | Fail | 1. Semantic markup should be used correctly 2. Headings are correctly marked up 3. Main navigation on the page is marked up as a list 4. Table markup is used for layout purpose |
| 1.3.2 Meaningful Sequence - Present content in a meaningful order | Level A | Pass | 1. Contents are ordered according to the importance 2. Contents are clearly grouped using different article tags. 3. Navigating through pages produces a logical sequence |
| 1.4.1 Use of Colour - Don’t use presentation that relies solely on colour | Level A | Pass | 1. Links with a 3:1 contrast ratio with surrounding text 2. link focus is indistinguishable from the surrounding black text for those with colour-blindness or poor vision. |
| 1.4.2 Audio Control - Don’t play audio automatically | Level A | NA | 1. No Audios are available in website. |
| 2.1.1 Keyboard - Accessible by keyboard only | Level A | Pass | 1. Added link below every Heading to for the keyboard users to navigate through |
| 2.1.2 No Keyboard Trap - Don’t trap keyboard users | Level A | Pass | 1. User can go to top of the page and to the menus from any content using the link using keyboard |
| 2.3.1 Three Flashes or Below - No content flashes more than three times per second | Level A | NA | 1. No Flash Contents Used |
| 2.4.2 Page Titled - Use helpful and clear page titles | Level A | Pass | 1. Page have a title 2. Page title is unique 3. Page title is appropriate |
| 2.4.3 Focus Order - Logical order | Level A | Pass | 1. Tab order is clear , navigating through the contents 2. Highly visible highlighting mechanism for links or controls when they receive keyboard focus |
| 2.4.4 Link Purpose (In Context) - Every link’s purpose is clear from its context | Level A | Pass | 1. Link texts provide correct description of the the purpose of link 2. Avoid hyperlinking text such as “click here”, “read more” |
| 3.1.1 Language of Page - Page has a language assigned | Level A | Pass | 1. Page is marked up with its language |
| 4.1.1 Parsing - No major code errors | Level A | Pass | 1. Correct use of the start and end tags 2. Valid attributes are used |

The main challenge I faced was to make it responsive for the mobile device especially in the navigation bar because the site was first mainly developed for larger screen only then made responsive .

# Reference

• Web Content Accessibility Guidelines (WCAG) Overview

https://www.w3.org/WAI/intro/wcag

• Web Content Accessibility Guidelines 2.1

https://www.w3.org/TR/WCAG21/

• Techniques for WCAG 2.1

https://www.w3.org/WAI/WCAG21/Techniques/