

The development and testing document

ZAHRA HASAN.

Changes:

1-The design:

In the planning process I decided to use main and aside elements, but as I went through the design process I changed that to be nav and section elements instead mainly because the design changed as a whole as shown in the **figure1**

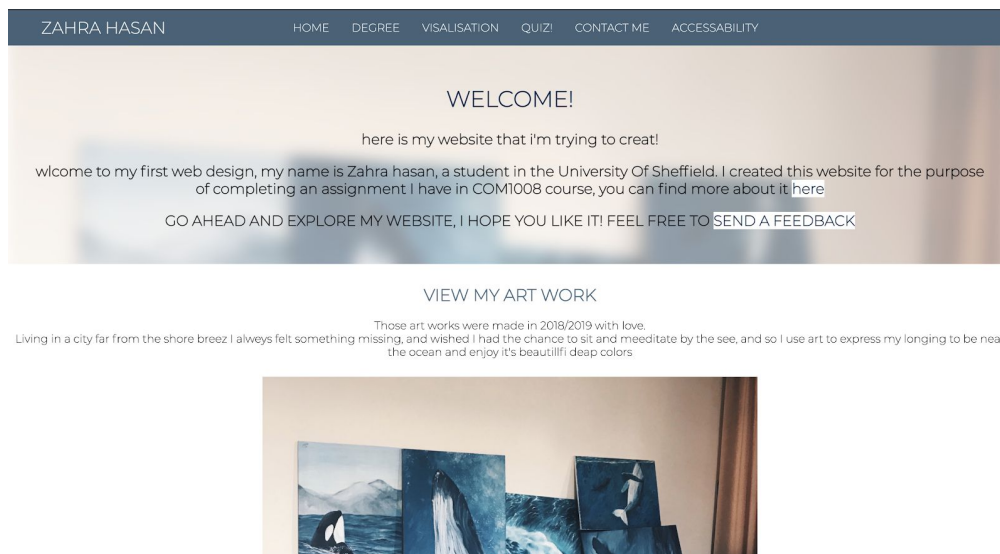


Figure1. the final design-
desktop
version-

The top bar being the nav element and the two sections of the page are the sections elements. I used this design instead of the mockup one because I thought it looked better and was relatively easier to implement and control and also I did not have to use flex to

arrange the bar with the rest of the page but only used the menu system “toggle”. However the mobile screen version still looks quite similar to the mockup design> see **below**

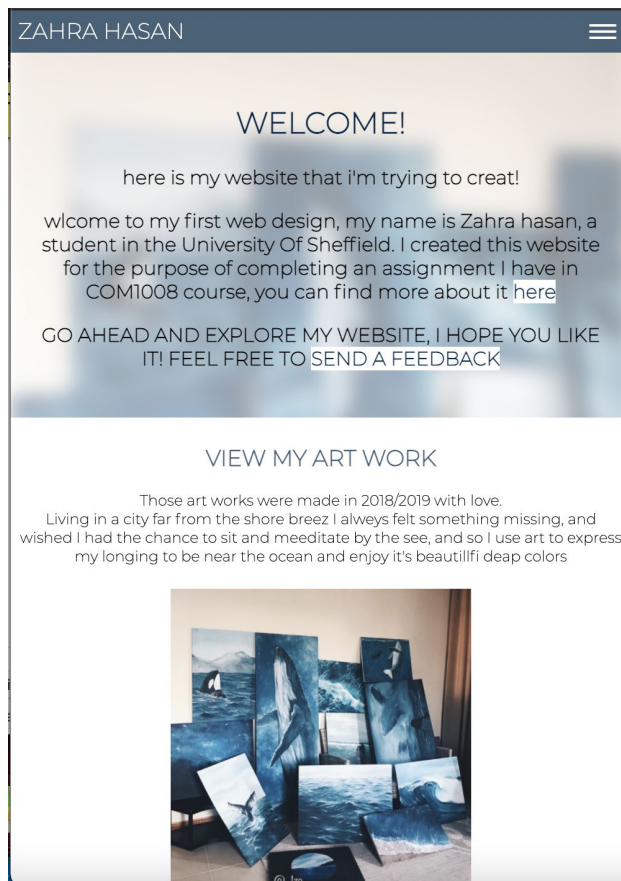


figure 2. The final design-mobile version-

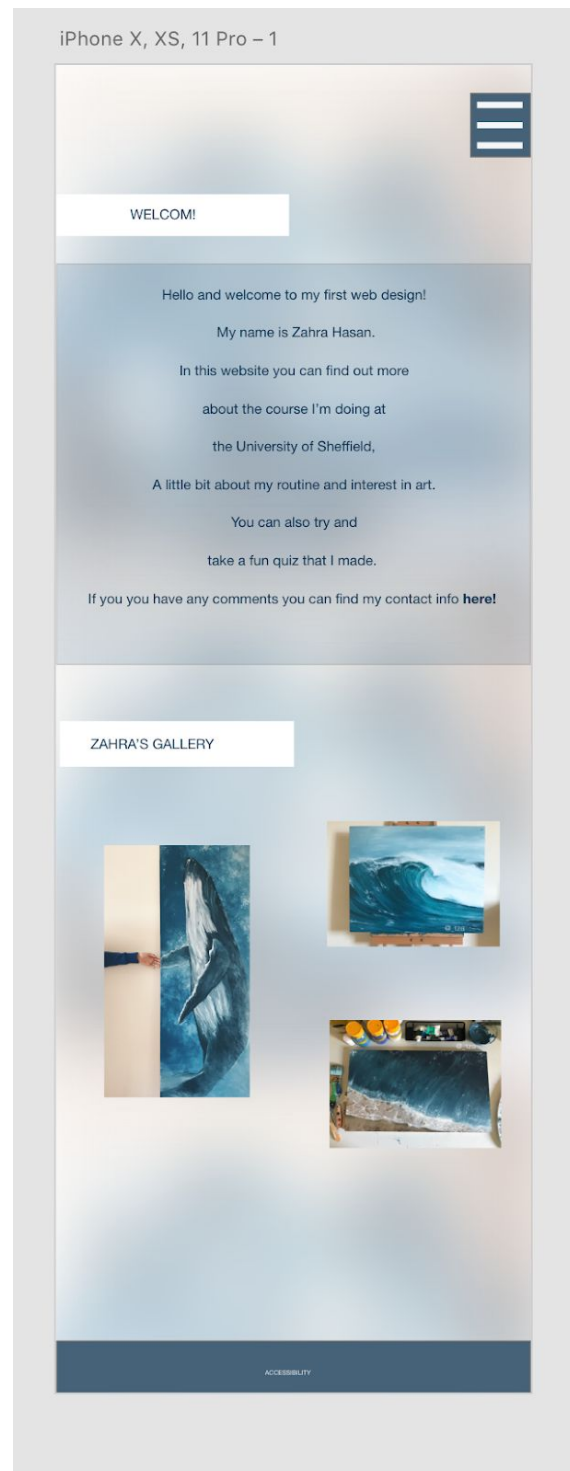


figure 3. The mockup design-mobile version-

2-the logo: I was planning to design a special logo that represents me but as I was running in time I decided to leave that and use only my name instead unfortunately.

Organization:

1-No ready full template were used to implement the website neither in HTML or CSS file , however I did use a trick I found on here

<https://css-tricks.com/snippets/css/transparent-background-images/>

To reach the desired result for the background to be blurry and transparent as there is no such method to that directly using CSS. **Figure4.**

```
14
15
16  /*make background image transparent*/
17
18  body::after {
19      content: "";
20      background: url(../images/background.JPG);
21      background-size: cover;
22      opacity: 0.5;
23      top: 0;
24      left: 0;
25      bottom: 0;
26      right: 0;
27      position: absolute;
28      z-index: -1;
29      filter: blur(10px);
30      background-repeat: repeat;
31
32
33
34  }
35
```

Figure4. A
trick to
make
background
transparent

2-the file structure was organized as seen on many youtube videos and the downloadable tutorial in COM1008:

Main folder contains:

html pages and four subfolders, one for the images, one for the CSS files and one for the JS files and final one for documentation which contains the planning and developing pdf's. Note. all files and (almost all) images were given meaningful names.

3-Menu implementation: I used the toggle menu as planned. The idea behind it is using simple javascript to activate a certain class on a click event (on menu hamburger), which is hidden until a breakpoint is reached at 767px min-width.

Note. I did not use ready svg files for the menu hamburger instead I used three span elements together inside a <div> and manipulated the style to make it look like three horizontal bars. look **figure5**.

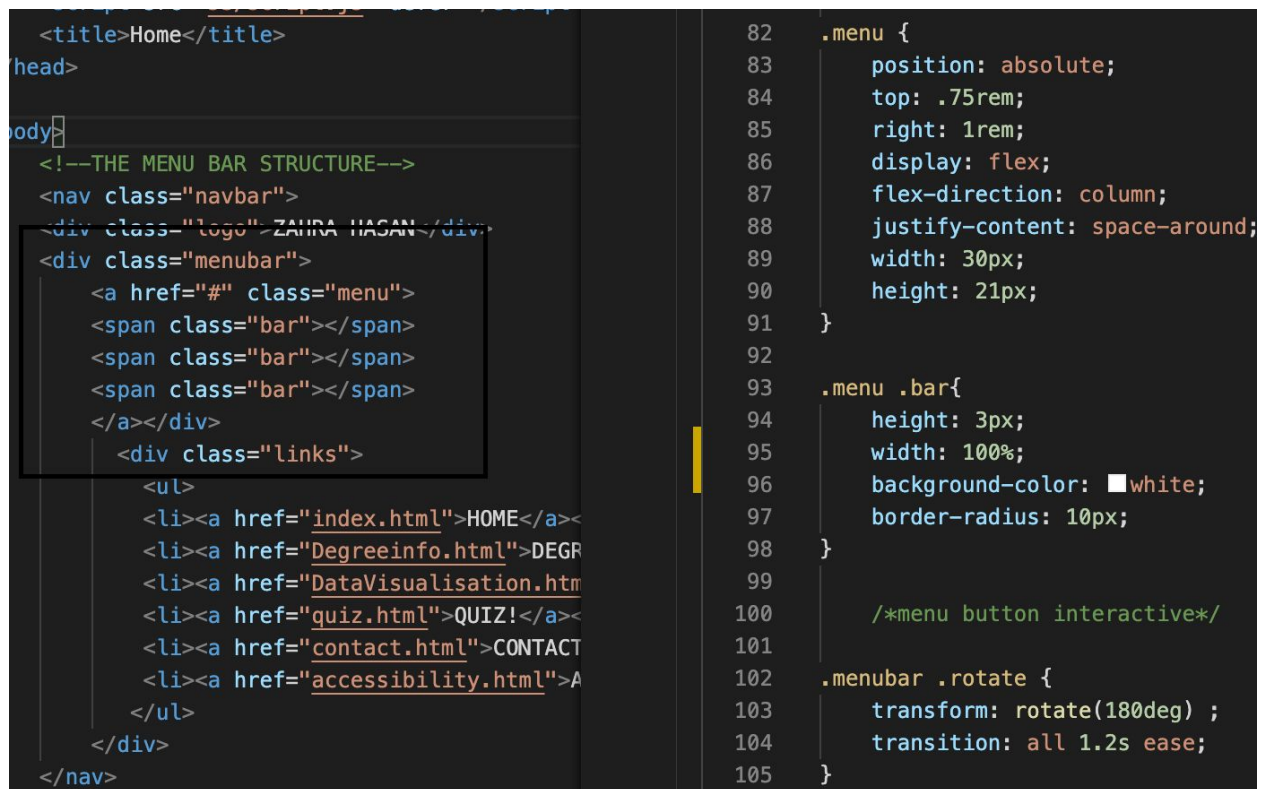


Figure5.menu button implementation

4-javascript: three files:

1-the main js file: simple javascript using (getElementByClassName) and (toggle) to create an interactive navigation bar.

2-the visuals file: I dedicated most of the time developing this file because it required using multiple (for loops) and functions which could be tricky. I could not meet the requirement of creating three visuals, however I added an extra interactive feature which loops through the days of the week instead of just presenting the total result. I also made sure the buttons to be reseted once another button was clicked using InnerHTML.. **Figure6.**

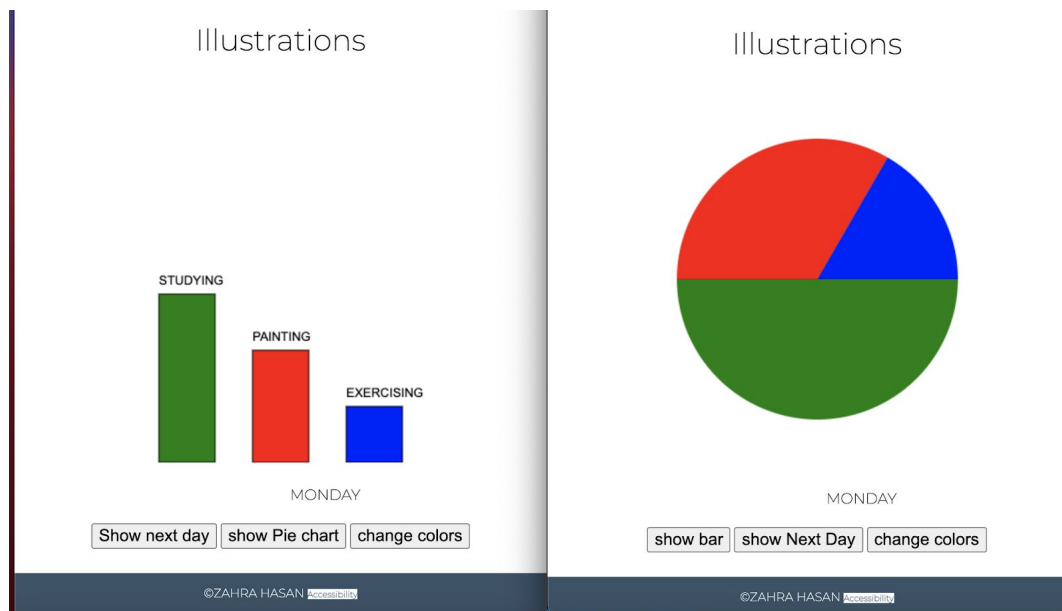


Figure6.
Changing
buttons
context
when
clicked.

Moreover, I created functions that generate new colors and assign them as new values to the main colors array. This function works only after hitting the change colors button and you can only see the result after hitting one of the other buttons to view charts. I tried to make it work inside the charts (for loops) but could not achieve that.

3- the quiz javascript file: used `getElemntByld` and `value` attribute to target elements. Used `innedHtml` to change result `<p>` context depending on the score value. Used `(alert)` feature to alert the user when a question was not answered.

Security:

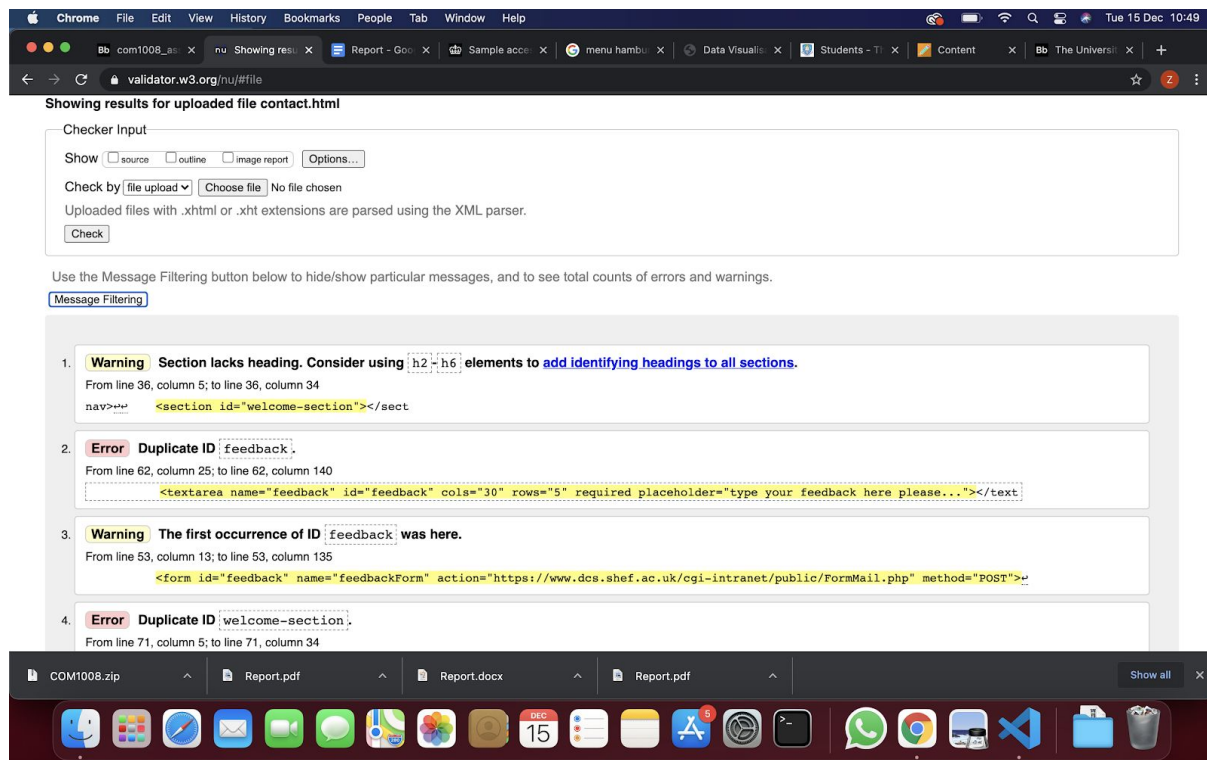
As taught in lectures, there is no innerHTML to change context directly from a user input.

The form uses the (action="<https://www.dcs.shef.ac.uk/cgi-intranet/public/FormMail.php>") attribute as told in lecture to be a safe server for sending emails.

Debugging:

<https://validator.w3.org/> was used at the final stage to make the last changes, here are some examples to the results:

Figure7. Debugging for contact.html page



1- As seen in **figure7** I had an Id which was duplicated and was not even used so I got rid of it as well as an empty section I had for design purposes which I replaced with a margin css property.

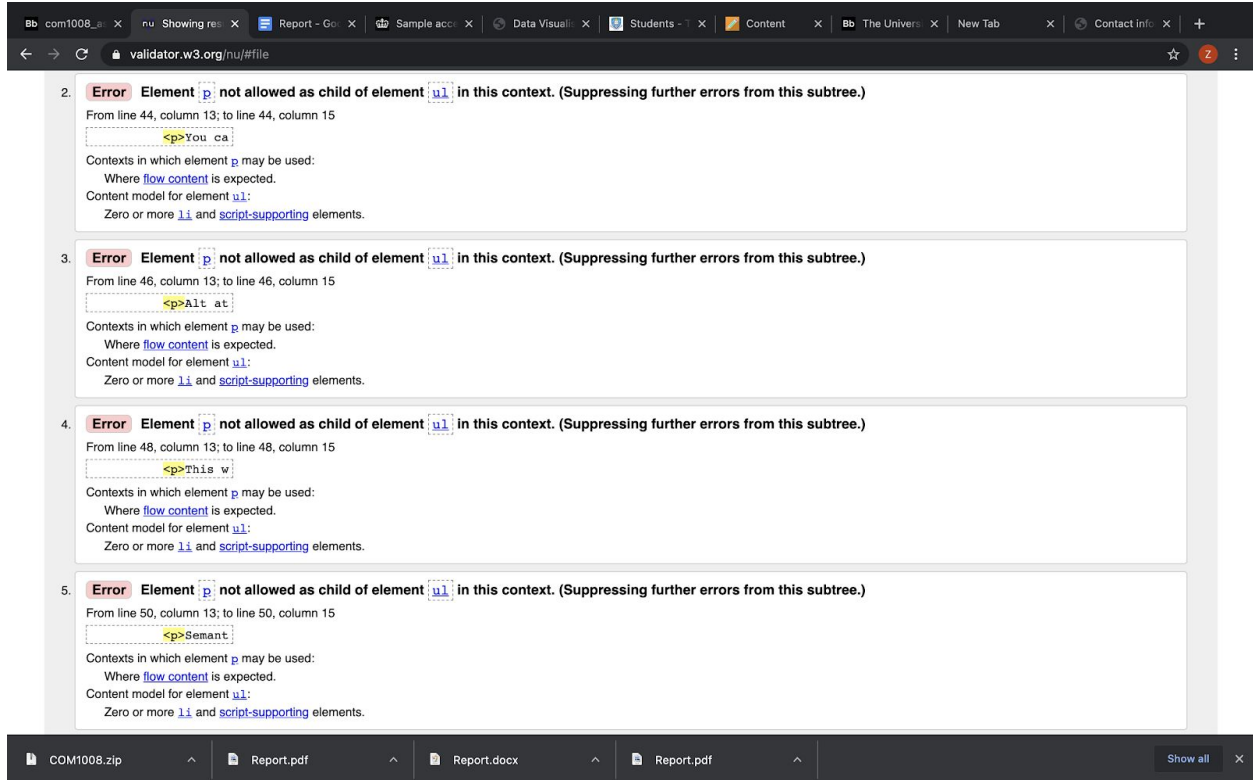
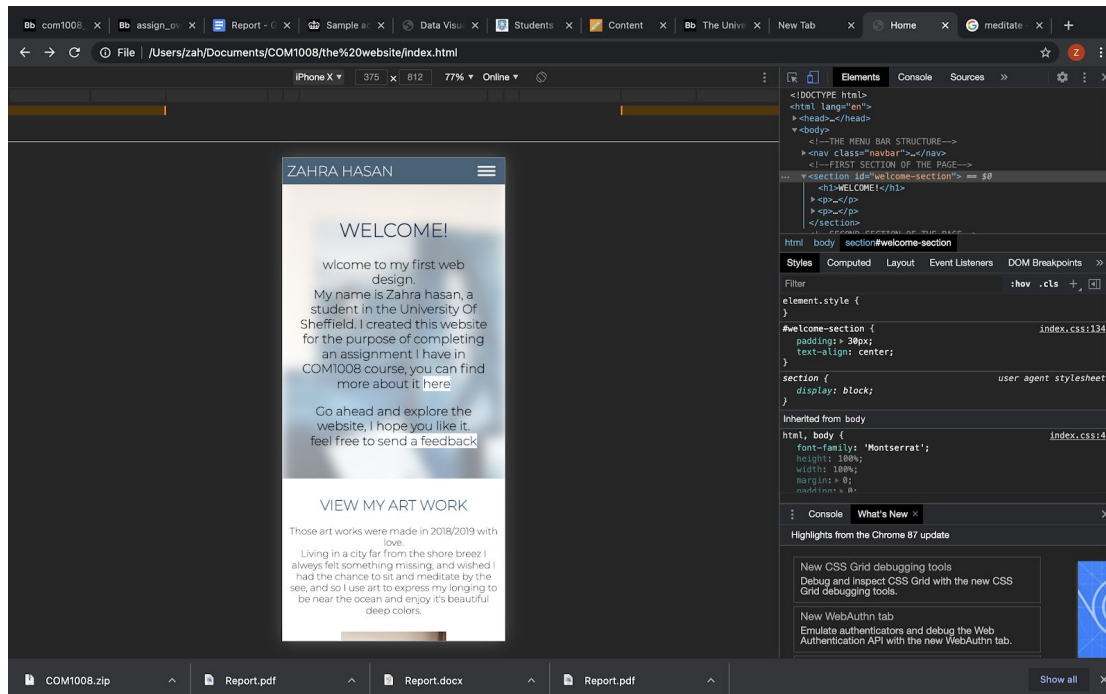
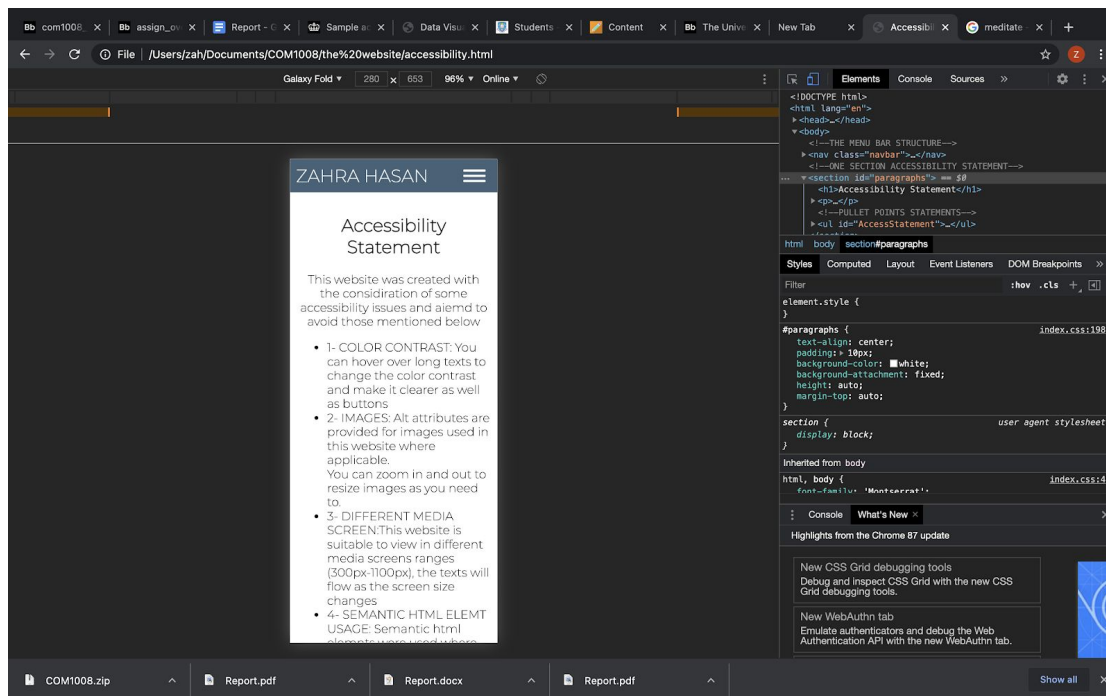
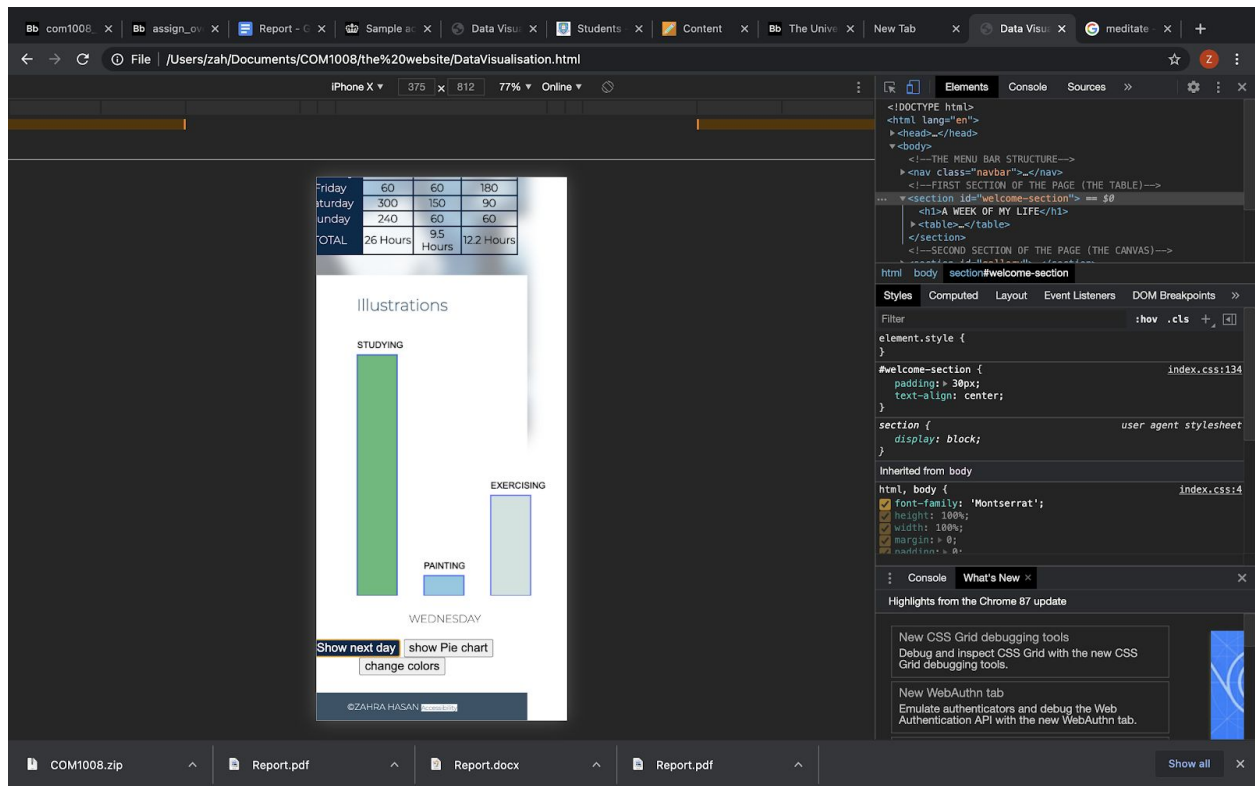


Figure8. Debugging for Accessibility.html page

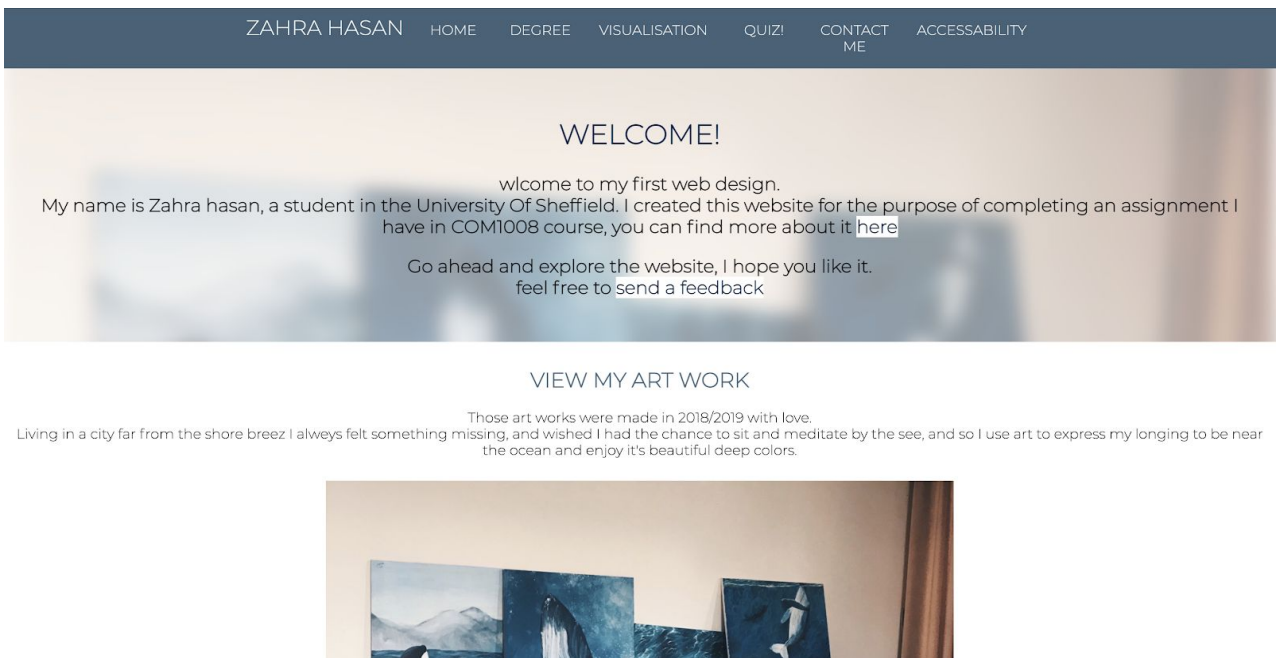
2- For Accessibility page I was using <p> elements inside a which as shown in **figure8** must not be done, and so I changed it to be normal elements.

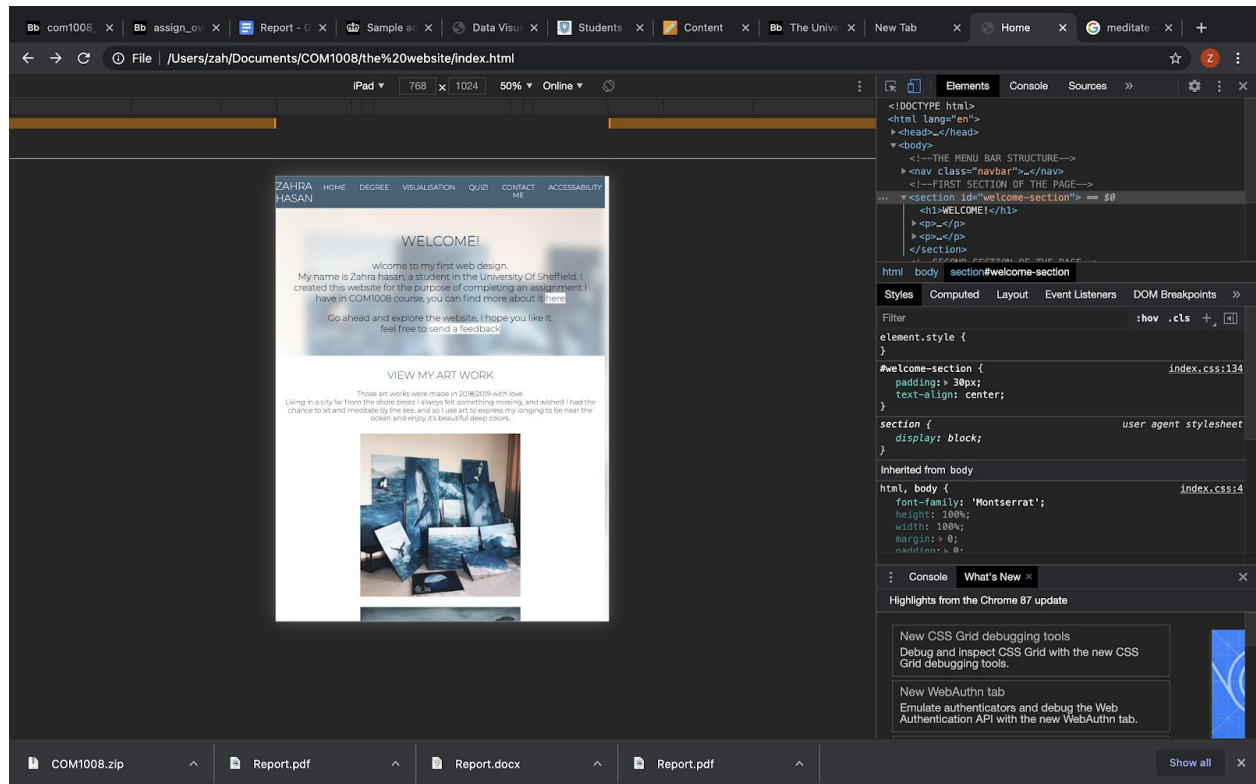
Testing:





iPhone X -distorted visuals-





IPad