Part 3: The development and testing document

Changes:

- There was a change in the plan when I made the webpage, because I wanted to put the quiz answers in the guidance, which would make it easier for readers to find the answers and make the layout more concise.

- I also try to change font size and the min-size of the website, because of the bad layout.

Organization:

- The reason why we need to create templates for HTML and CSS is that every page has something in common, so that we should create original HTML and CSS. Creating the templates is a really convenient way for us to start new HTML, CSS and edit them.
- Normalize vs Reset: This website uses normalize.css for several reasons. First, normalize uses a wider field than reset, and normalize can also correct some errors. Second, normalize.css is more ordered, because one of its modules can be divided into many small, ordered modules, and the ordered modules make it easier for people to delete it. Third, normalize is better for people to read, so that they can quickly figure out what the code is doing when they are modifying or deleting it or reviewing it (Nicolas Gallagher, February 28, 2012).
- Menu: the website only uses HTML and CSS for creating menu. The website creates two kinds of menu, one is on the top which is clear and reader can notice it first, one is on the right which is something like a guidance, and if hover over the text, it will appear the sub-menu.

Optimisation:

- To improve user satisfaction, for those who are blind, try to optimize the voice function, and the user can control the speed of the voice.
- Increasing the speed of web pages. Part of the reason for the slow speed of web pages is the size of the images. We can compress images before loading them on your site.
- Improve the speed of the web page we would better use CSS style design, and try to improve the capacity of the web page, remove redundant multimedia elements.

Security:

- Permission verification needs to be established to strictly authenticate users and ensure that users cannot access non-authenticated or low-privileged resource information that does not belong to them.
- After designing the website, people should test whether the security of the website was perfect
- Web applications need to properly store passwords, user names, ID card, etc., and submit error messages to users when problems appear.

Debugging:

- The debug system can find basis errors of the website, in elements tag, can be used to view, modify, restore, see The CSS style. In audits the tag, the system can help us to analyze the performance of the page, and we can optimize the front page. In the network request tag, we can see all resource requests, image resources, HTML, CSS. Request items can also be filtered based on requirements. Inside the console, there are commands for printing and printing.

Testing:

- The website is tested by three browsers: safari, google, and firefox.

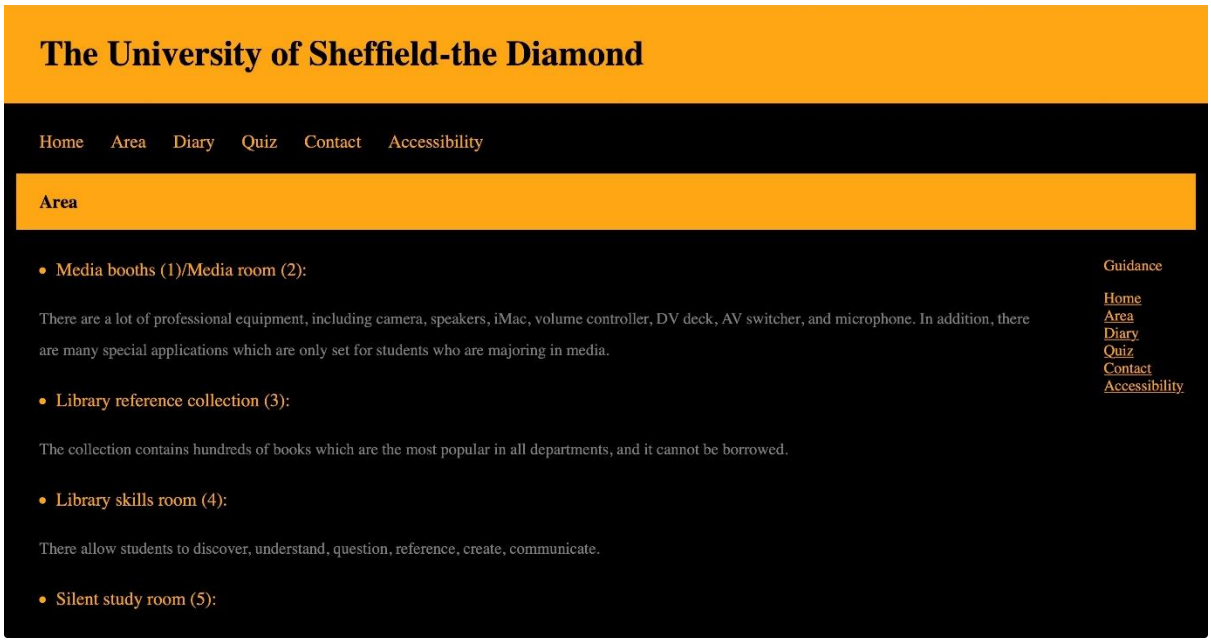

Figure4: safari-normal

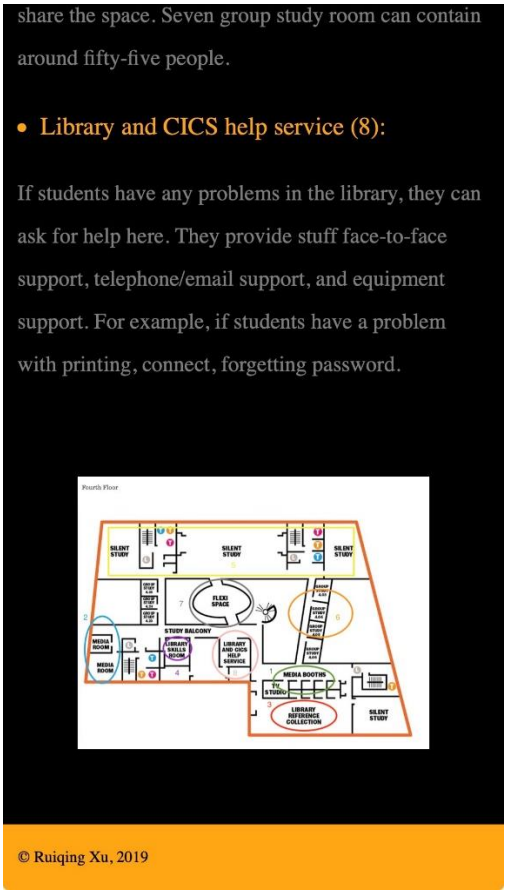

Figure5: safari-narrow

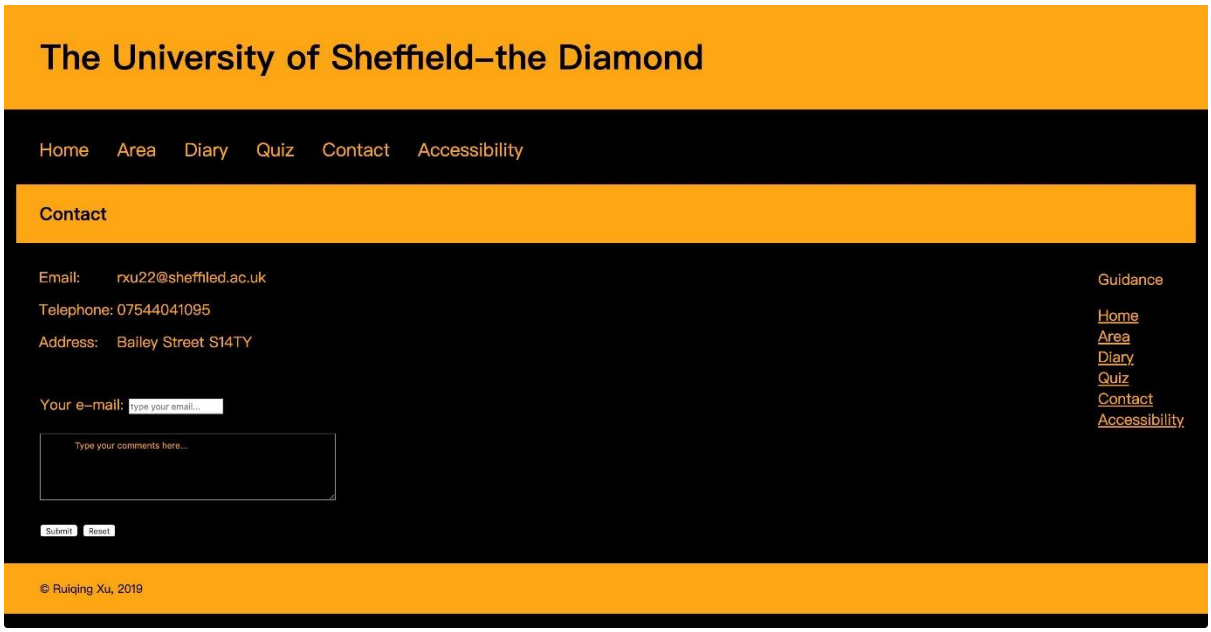

Figure6: Google Browser-normal

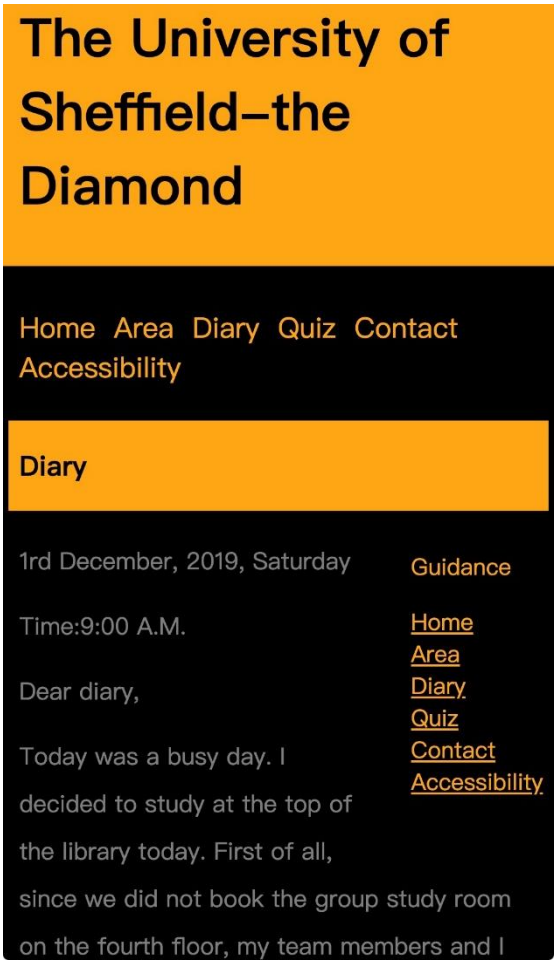

Figure7: Google Browser-narrow

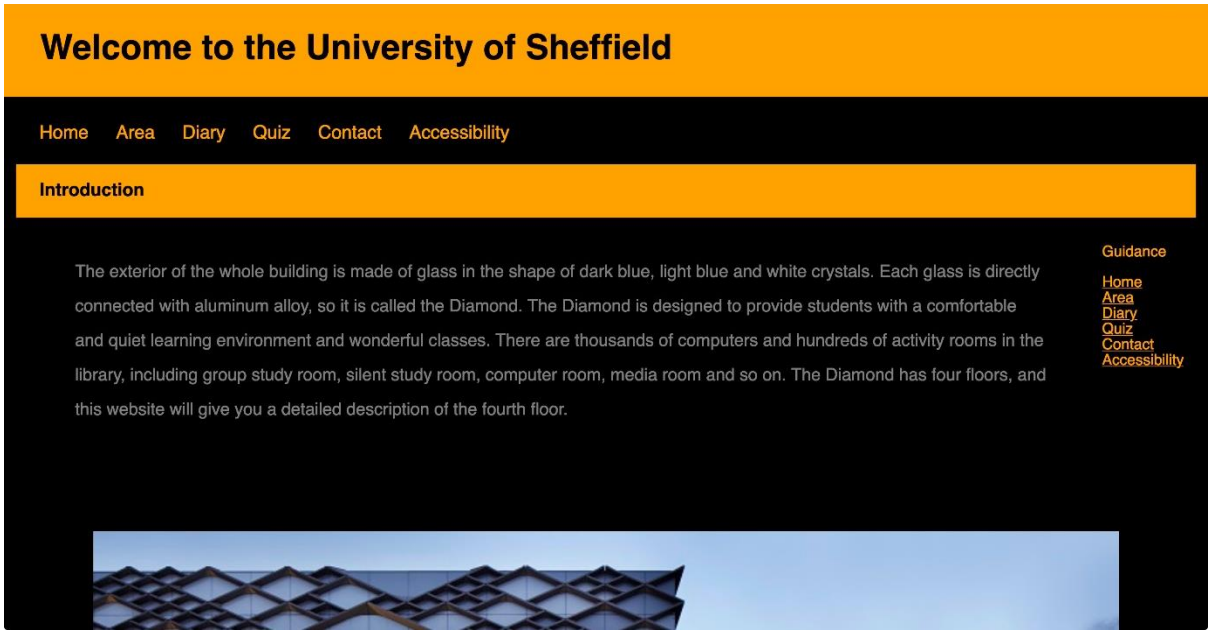

Figure8: Firefox Browser-normal

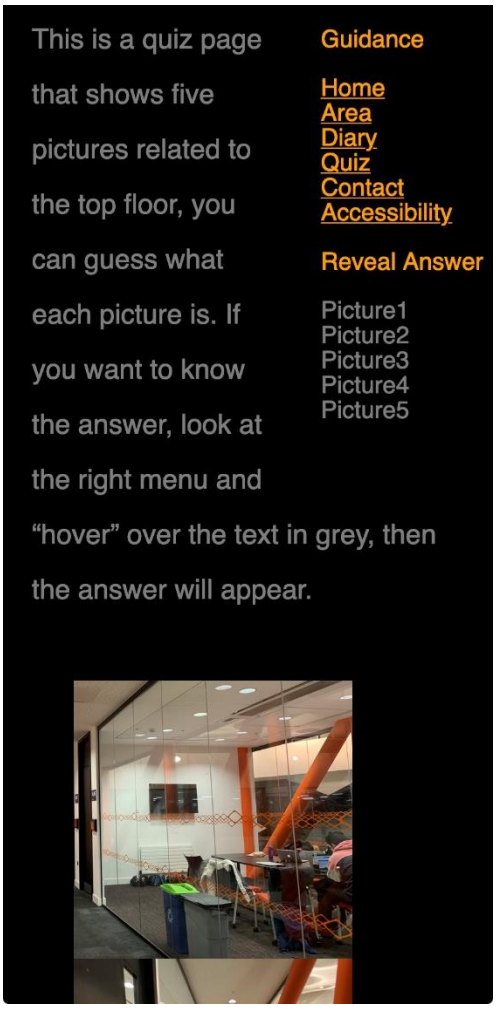

Figure9: Firefox Browser-normal

Reference:

1. Nicolas Gallagher, February 28, 2012, about normalize.css, viewed December 3, 2019,< http://nicolasgallagher.com/about-normalize-css/>