

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.

The University of Sheffield-the Diamond

Home Area Diary Quiz Contact Accessibility

Area

- Media booths (1)/Media room (2):
There are a lot of professional equipment, including camera, speakers, iMac, volume controller, DV deck, AV switcher, and microphone. In addition, there are many special applications which are only set for students who are majoring in media.
- Library reference collection (3):
The collection contains hundreds of books which are the most popular in all departments, and it cannot be borrowed.
- Library skills room (4):
There allow students to discover, understand, question, reference, create, communicate.
- Silent study room (5):

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Figure4: safari-normal

share the space. Seven group study room can contain around fifty-five people.

- Library and CICS help service (8):

If students have any problems in the library, they can ask for help here. They provide stuff face-to-face support, telephone/email support, and equipment support. For example, if students have a problem with printing, connect, forgetting password.

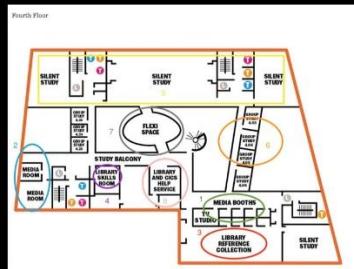


Figure5: safari-narrow

The screenshot shows a mobile-optimized version of the website. At the top is a yellow header bar with the text 'The University of Sheffield-the Diamond'. Below it is a black navigation bar with links for Home, Area, Diary, Quiz, Contact, and Accessibility. The main content area has a yellow background and contains a 'Contact' section. It includes fields for Email (rxu22@sheffhled.ac.uk), Telephone (07544041095), and Address (Bailey Street S14TY). There is also a text input field for 'Your e-mail:' and a larger text area for 'Type your comments here...'. On the right side of the contact form, there is a vertical sidebar with links for Guidance, Home, Area, Diary, Quiz, Contact, and Accessibility. At the bottom of the page is a yellow footer bar with the copyright notice '© Ruiqing Xu, 2019'.

Figure6: Google Browser-normal

The screenshot shows a desktop version of the website. The top section features a large yellow header with the text 'The University of Sheffield-the Diamond' in a bold, black, sans-serif font. Below the header is a black navigation bar with links for Home, Area, Diary, Quiz, Contact, and Accessibility. The main content area has a yellow background and displays a 'Diary' section. It shows a post for '1rd December, 2019, Saturday' with the time 'Time:9:00 A.M.'. The diary entry begins with 'Dear diary,' and continues with 'Today was a busy day. I decided to study at the top of the library today. First of all, since we did not book the group study room on the fourth floor, my team members and I'. To the right of the diary entry, there is a vertical sidebar with links for Guidance, Home, Area, Diary, Quiz, Contact, and Accessibility.

Figure7: Google Browser-narrow

Welcome to the University of Sheffield

[Home](#) [Area](#) [Diary](#) [Quiz](#) [Contact](#) [Accessibility](#)

Introduction

The exterior of the whole building is made of glass in the shape of dark blue, light blue and white crystals. Each glass is directly connected with aluminum alloy, so it is called the Diamond. The Diamond is designed to provide students with a comfortable and quiet learning environment and wonderful classes. There are thousands of computers and hundreds of activity rooms in the library, including group study room, silent study room, computer room, media room and so on. The Diamond has four floors, and this website will give you a detailed description of the fourth floor.

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Figure8: Firefox Browser-normal

This is a quiz page that shows five pictures related to the top floor, you can guess what each picture is. If you want to know the answer, look at the right menu and “hover” over the text in grey, then the answer will appear.	Guidance Home Area Diary Quiz Contact Accessibility Reveal Answer Picture1 Picture2 Picture3 Picture4 Picture5
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Figure9: Firefox Browser-normal

Reference:

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