Planning and Design

General Ethos and Initial Design Plan

The final product will be a responsive mobile first website aimed at Computer Science students and should be designed in such a way that it serves as a guide to the building. We have chosen a fairly simple design so information is quickly provided which is its main purpose. Also we will make us of clear headings, short paragraphs and visual aids. We will start by designing and implementing for a mobile platform then adapting it to function on a desktop browser. The website will use one consistent design in terms of colours and page structure.The colour scheme will be bright and modern which should appeal to the students using the page. It is not a corporate page so more fun effects can be used.

Menu System:

Required pages:
- Home.
- A week in the life of a CS student.
- Eating options.
- Contact us.
- Accessibility.

Additional pages:
- Where to find us.
- social (bar one, the foundry etc).

We will have a banner and a horizontal navigation bar at the top of each page on mobile and desktop versions. The tabs displayed will be 'Home', 'A Week in the Life', 'Where to Eat', 'Contact Us', 'Accessibility', and 'Social'. In the banner we will have a heading and our logo. We will have a footer at the bottom of each page. In the footer we will have links to 'Contact Us', and our accessibility statement. The user can find the 'Where To Find Us' page through the 'Contact Us ' page.

On mobile this will appear as a hamburger menu. When considering the different approaches we decided this was best for mobile first design due to it being simple and the most space efficient approach. Researching many professionals opinions it was expressed as 'easily recognizable' and 'frees up plenty of space' (Frost, 2012).

On larger devices the menu switches back to an inline top navigation which is the clearest approach.

Site Map:

The structure of the website is shallow due to the limited number of pages. Finding relevant information is therefore easier. We are aiming for a website where the user can find any information within three clicks.

Links:

If we were to put this website online these would be the page titles:
uosunionguide.com/week_in_the_life
uosunionguide.com/food_and_drink
uosunionguide.com/contact_us
uosunionguide.com/accessibility
uosunionguide.com/social
uosunionguide.com/find_us
These names will not alter over time and are clear indications of which pages they represent. This is beneficial for not only the users but also during website creation and maintenance.

Accessibility:
To follow the W3C's guidelines on accessibility there are many aspects of the website we must consider:

● We will give each page an appropriate page heading with the title elements in the header.

● When the links are clicked, they will become underlined so that colour blind users can also detect the change.

● Important images will have an alt attribute which can be read by a screen reader.

● We will select a colour scheme that is suitable for users with vision defects like colour blindness so different aspects of the website can still be differentiated.

● To make the website more operable we will include the following access keys.
● We will include no flashing content on any of the pages.

- We will make the website as robust as possible so that it can operate on different browsers.

- We will also accommodate for mobile users by making links easier to click for example.

Legal Issues

-We will exclusively use images taken by ourselves and in a public area. Any portraits will have explicit consent received before publishing the website.

-The website will be accessible for all people in accordance with the Equality Act.

-We will use free fonts under the Creative Commons: BebasNeue (headings), Arial (content). The benefit of these fonts is they are proven compatible on all relevant browsers and versions.

-Icons we use will come from Font Awesome and will be free to use.

-The normalize sheet will have an MIT License allowing it be freely used.

Breakpoints

The website is first designed for a mobile. We will then use two break points after this.

At **650px** , the content will be adapted to suit a tablet or larger monitor. This means the addition of margins and moving of pictures from outside the traditional vertical column for the mobile design.

At **1120px**, the monitor is much larger so there is more space on the screen. Images will be given flex attributes to fit with the text. Most objects properties will be in proportion to the screen and viewpoints so will scale up with the website.

Technical Details

The main browsers in mind when designing this website will be Google Chrome, Internet Explorer and Safari (the main browsers especially on phones). The website will be compatible with the last two versions of these browsers. The content of the website should be able to be viewed without the stylesheets in effect. When looking at phones it is important to consider whether the displays are in landscape or portrait mode.

Gantt Chart

	Week 1	Week 2	Week 3	Week 4	Week 5

Planning					
Development					
Testing and Evaluation					

There is a restricted amount of time to develop the project and this is the time plan we will follow. It is a linear process however when testing begins, we will reflect upon the tests and continue to improve our product. Development is the most important part of the project so takes up the most time.
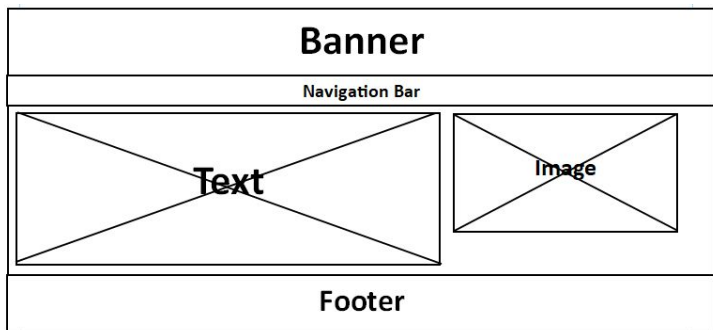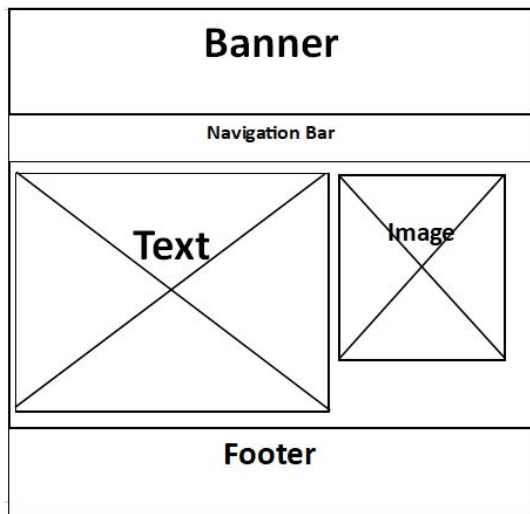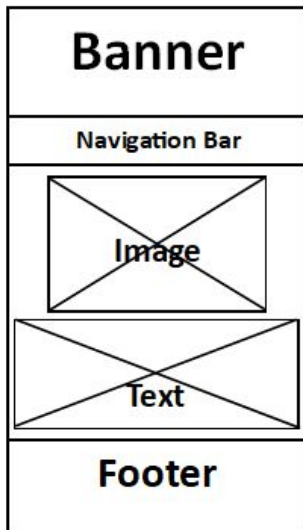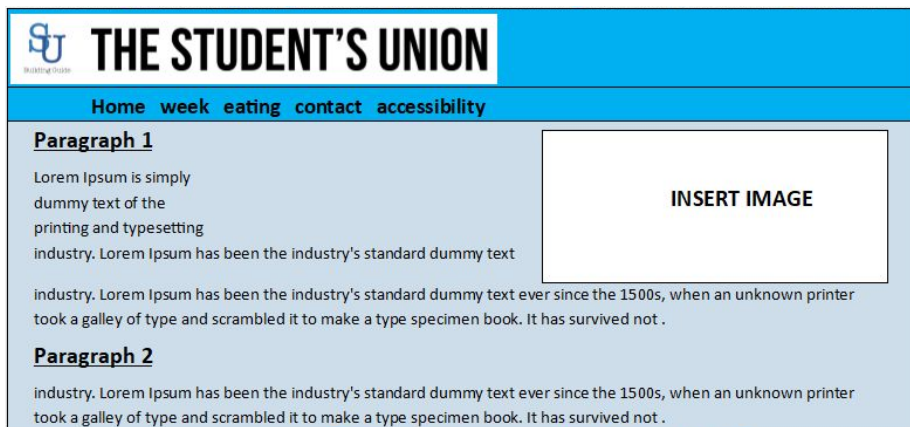
Wireframes

Figure 1 large screen wireframe

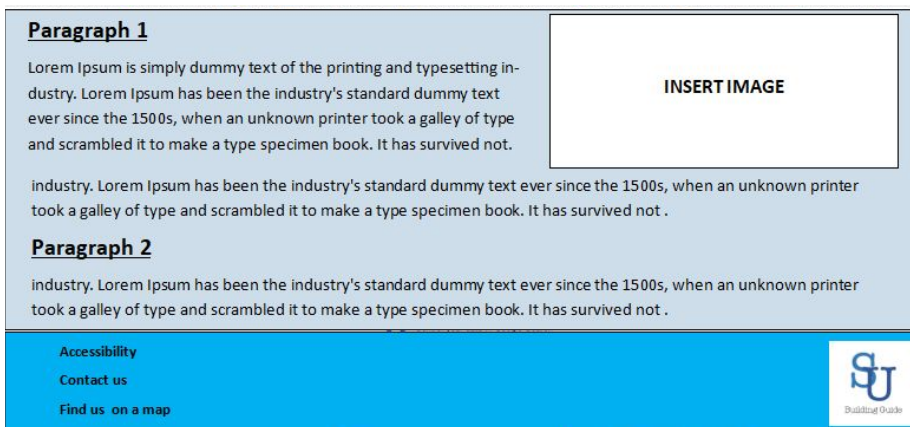**Figure 2** medium screen wireframe

Figure 3, mobile screen wireframe

Mockups

Figure 4, large screen mockup

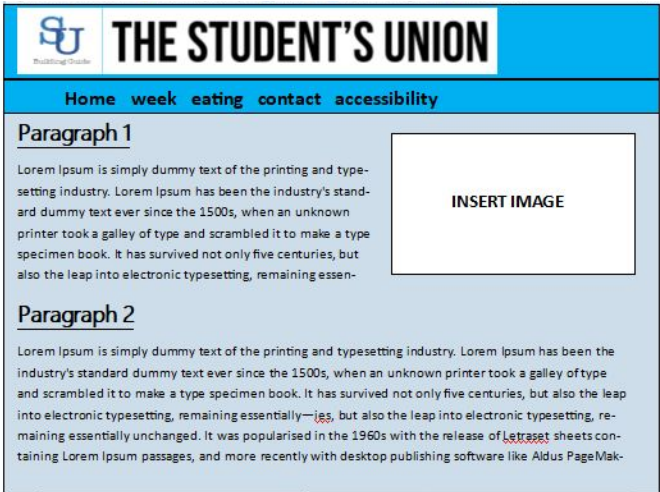**Figure 5,** large screen mockup continued
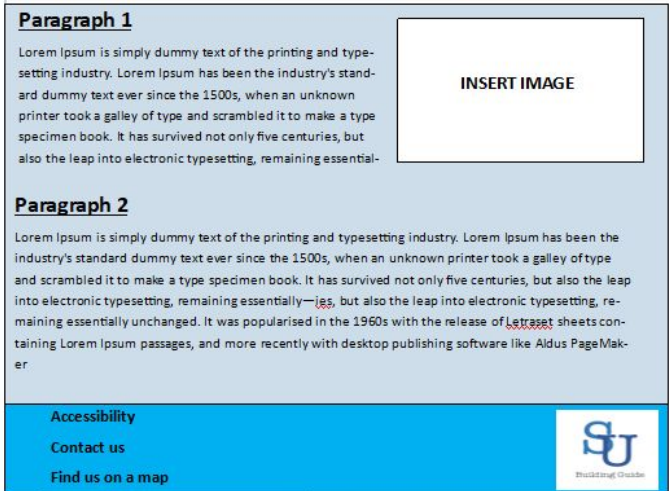
Figure 6, medium screen mockup

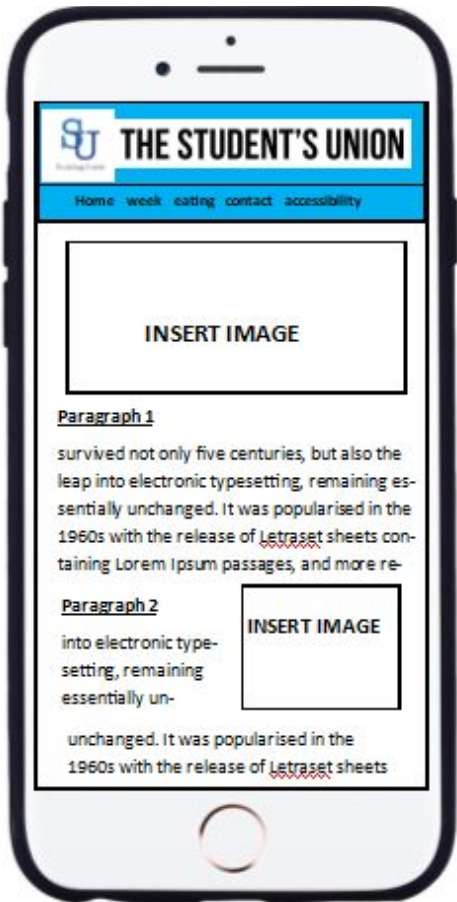

Figure 7, medium screen mockup continued
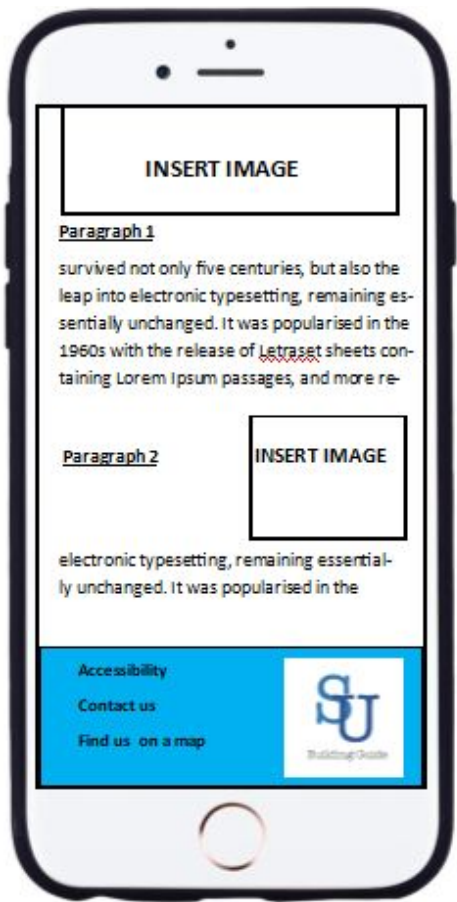

Figure 8, mobile mockup

Figure 9, mobile mockup continued

Logo (Figure 10)

This design uses the university colours which is important to create a sense of cohesion. It also features the words building guide which makes it more informative and specific to the site.

Bibliography

Frost, B., 2012. *Responsive Navigation Patterns.* [Online]
Available at: http://bradfrost.com/blog/post/responsive-nav-patterns/