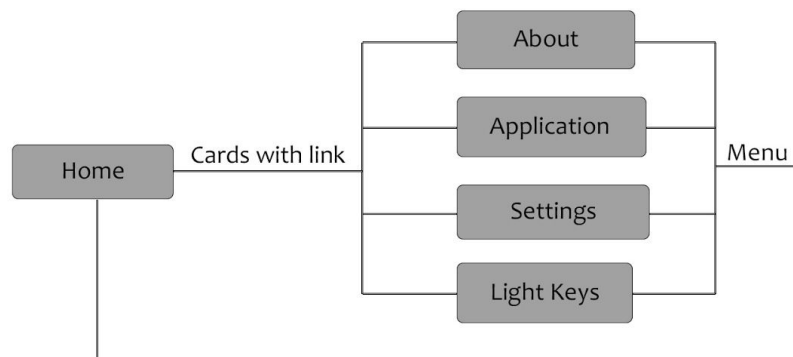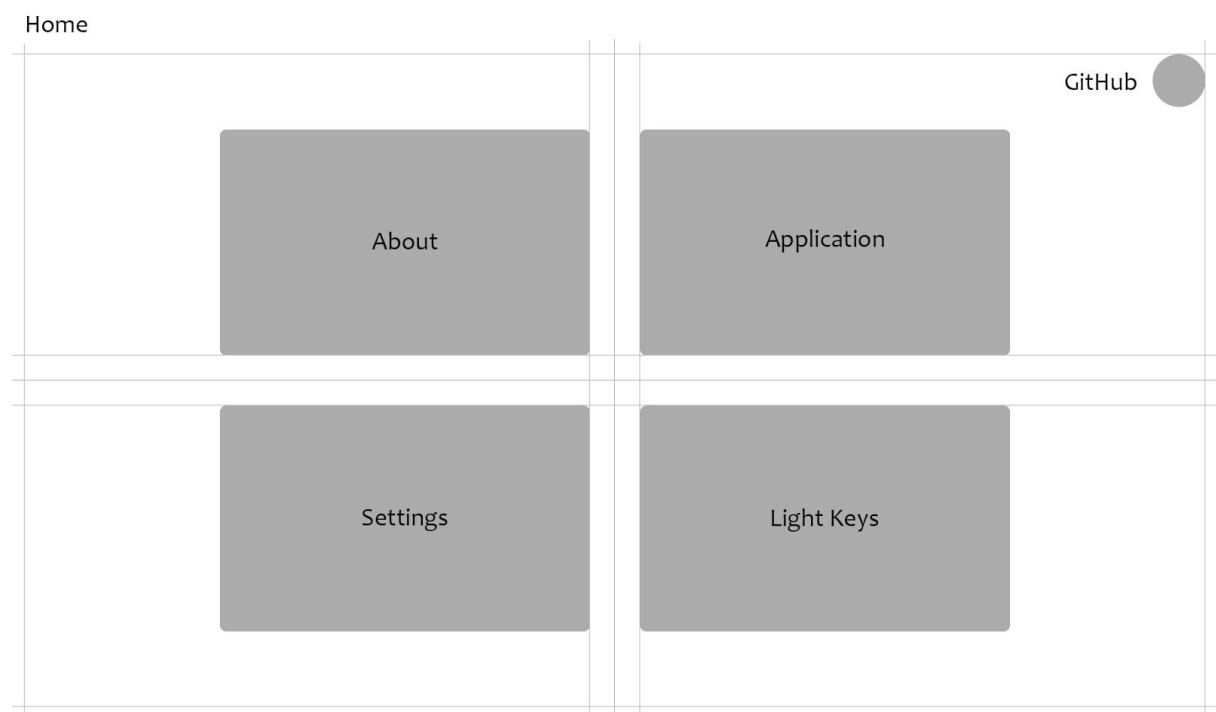# Web Design Document for SOFT166 Practice (P1W1)

Sitemap

While sitemaps are usually just a visual diagram of how the different pages are connected, I included some annotations to point out the element that actually connects the pages, otherwise it'd just be the "Home" page linked to the other four pages.

Wireframes

About, Settings, Light Keys

⬤ Menu   GitHub ⬤

```
┌──────────────────────────────────────────────────┐
│                                                    │
│                     Content                        │
│                                                    │
└──────────────────────────────────────────────────┘

┌──────────────────────────────────────────────────┐
│                     Content                        │
└──────────────────────────────────────────────────┘

┌──────────────────────────────────────────────────┐
│                                                    │
│                     Content                        │
│                                                    │
└──────────────────────────────────────────────────┘
```

⬤ Menu   X   Game Information   O   GitHub ⬤

⬤ Reset

```
┌──────┬──────┬──────┐
│      │      │      │
├──────┼──────┼──────┤
│      │      │      │
├──────┼──────┼──────┤
│      │      │      │
└──────┴──────┴──────┘
```

Settings

The web-app includes a "Settings" page that allows the user to change their API key, the IP address of the bridge that connects to the Hue light bulbs, and the ID of the bulb they wish to interact with and use for the game. The user can also change the color of the interface and choose between a light and dark mode. These settings are saved in the user's browser's local storage using JavaScript.

Images

The following images were used throughout the application:

The first one is used as the menu icon.
The second one is used as the GitHub icon that links to the repo where this project is hosted.
The third, fourth, fifth, and sixth one are used on the "Home" page cards to link to the different pages.
The last one is the site's favicon.

All the images, except the last one, are from Font Awesome. They are royalty free, and can be used freely throughout both commercial and personal software without any copyright issues or licenses. The last one was made by myself in Photoshop, and makes use of the third (the light bulb) icon.

Web Accessibility Initiative Testing
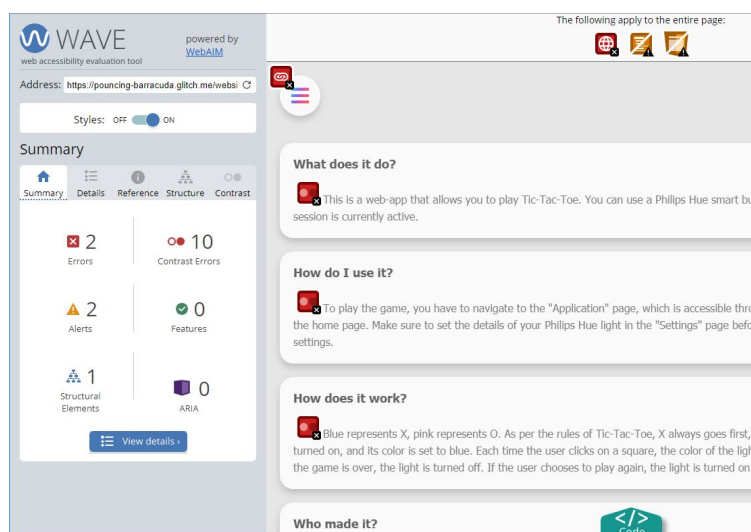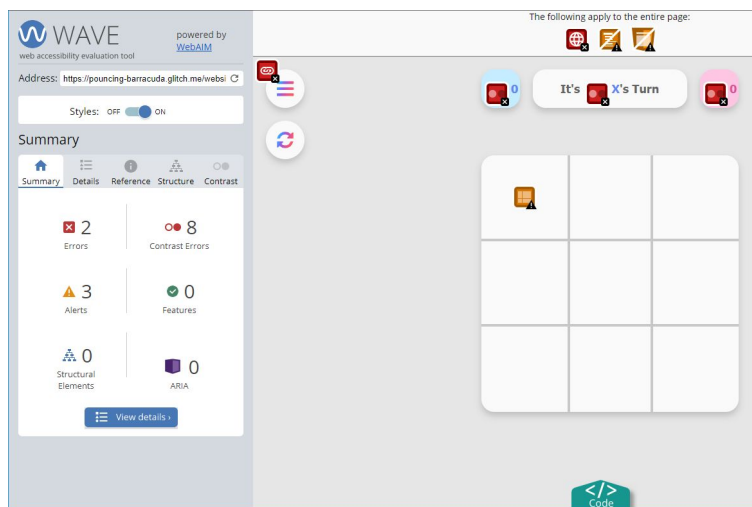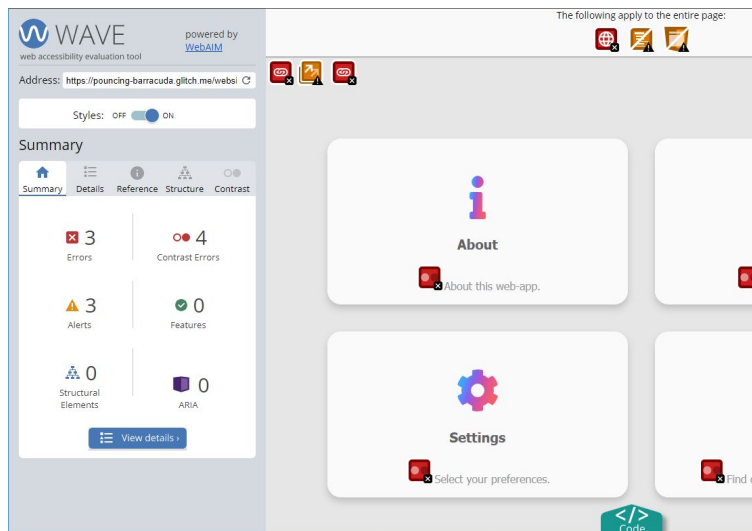
The images above (higher quality versions are available on the Trello project board that is linked at the end of this document) show the Web Accessibility Initiative testing I did. The two errors were for two links that didn't have an "href" attribute, which isn't actually accurate because all the "a" tags have said attribute. The other errors were all related to a lack of contrast between the text and the background. In the future, I'll pay more attention to that fact, as on my screen the text was very legible, but I didn't consider the fact that visually impaired people might struggle, or that different screens with different contrast settings might render the text illegible to some degree.

Feedback from Wireframe Demo Session

Steph said:

- That's so cool, I like it.
- Very user friendly.
- No negative comments to be given.
- Section sizes are different. I'm sure there's a reason.
- Very well formatted.
- Very accessible and easy to look at.
- Very user friendly.
- Basic layout, yet looks professional.

Lewis said:

- User friendly layout.
- Make it clearer whose score is whose.

Shaun said:

- User friendly across different screen sizes.
- Buttons are big and easy to interact with.

Feedback from Implementation Demo Session

- Professionally laid out.
- Very easy for users to navigate, and user friendly.
- High level of functionality; website can be used on any hue lights, not just the ones in the uni, can use any of the 6 lights that the users wants. There is also a "reset" button available and a "play again" button.
- Colour scheme is very appealing to anyone who'd like to play. theme can be changed, very good for user functionality.
- Game board is easy to use, minimalistic and easy on the eyes for users.

Trello Board

https://trello.com/b/RTbY8O4O/soft166-practice

GitHub Repo

The project is hosted on a **private** repo. Shirley Atkinson is a collaborator, and has access to it. The source code can be found inside the /website/ directory. The

/extras/ directory simply contains the fact sheet (which is also linked to on the "readme" and hosted on Trello) and images.

https://github.com/Xtrendence/SOFT166-Practice