SET09103 Advanced Web Technologies Coursework 2 Report

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Keywords – SET09103, Edinburgh, Napier, Advanced, Web, Technologies, Green, Leaf, report

1 Introduction

Overview The purpose of my web app was to build a website for the eco-friendly cleaning company, Green Leaf Cleaning Company. This is because one of the current owners felt that the Facebook page wasn't enough and they needed a independent website to spread their business.

The Web Pages All of the web pages in the web app follow the same design style. It is the information that is plugged into these pages that makes them unique, a good example of this type of page is the "Services" page. The Services page makes use of both embedded assests and HTML ones. It shares the same centred design as the rest of the other web pages, as to maintain uniformity between the pages.
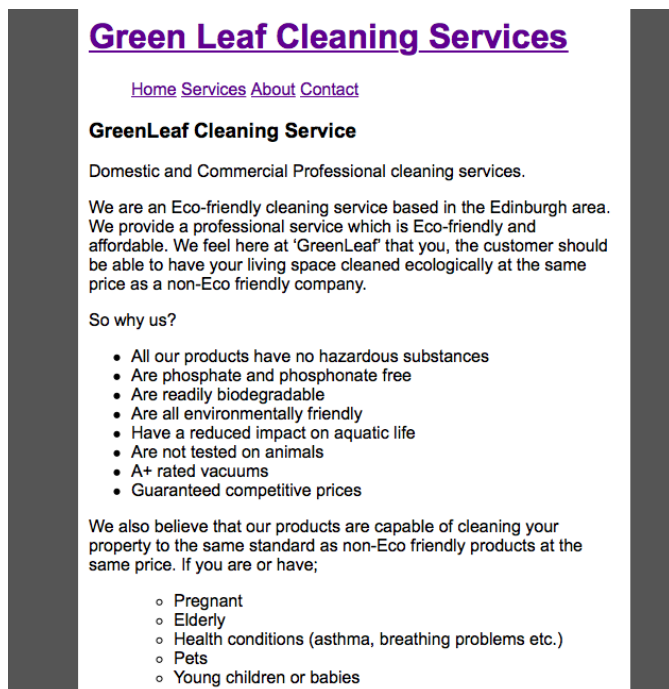

Figure 1: **The About Page** - A screenshot of the about page

2 Design

2.1 Homepage

The homepage was the first page designed, and as such, it's design influenced that of all the other pages in the Web App. The design of the homepage is rather minimalist, with it only having a header which links back to itself and a list of links to the other web pages. This was done as to draw attention towards the embedded features of the pages, in this case, the most recent Facebook posts made by the Green Leaf Cleaning Service Admins. I chose to use a grey colour as the background colour as I felt it drew attention to the main section, what was colored white. However it is also regarded as a depressing, dark colour. During the design process Arial was chosen as the font of choice. A sans-serif font was chosen because the strokes are a near uniform width, keeping the font readable when reduced in resolution or reduced in font size.

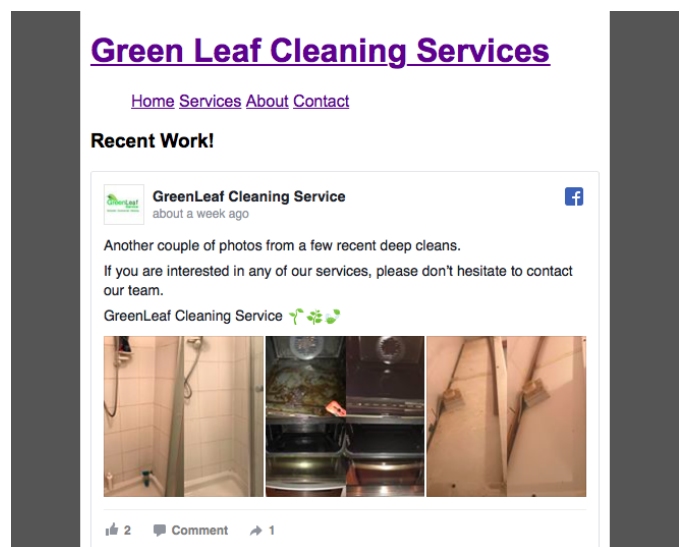Figure 2: **The Homepage Page** - A screenshot of the homepage page

2.2 The Services Page

The Services page gives the user a brief description of the cleaning services offered by the company and it also features an embedded video showing the eco-friendly cleaning products that they use. It shares the same centred design as the rest of the other web pages, as to maintain uniformity between the pages.

Figure 3: **Services** - A screenshot of the Services page, highlighting the embedded video

2.3 The Contact Page

The Contact page gives the user all the possible ways that they could get in contact with the staff at the cleaning company. Like all the other pages in the web app, the contact page shares the same centred design. The contact page, makes use of an embedded Facebook post and HTML code.

As shown previously, the About page has the same design as the other pages. The about page gives the user a brief description of the company and the why the user should chose them to do any cleaning jobs they require. Unlike the other pages, this is the only one to not feature any embedded Facebook posts.

2.4 Python

The .py files are where the routing and error handling is carried out. The templates are also loaded within the home.py file. The template files are named very similarly as the actual routes themselves. The IP collection is also carried out within the home.py file.

2.5 HTML Templates

The reason why I opted to use HTML templates is that it can be rather difficult and annoying to write HTML directly into python. During the development, I opted to create a template for every page. This was done because some pages required some specific embedded CSS, for use with lists and embedded Facebook posts.

2.6 Code Listing

A segment of code taken from the home.html file, showing how I used iframes to embedded Facebook posts.

Listing 1: home in HTML

Figure 4: **Contact** - A screenshot of the Contact page, highlighting the embedded post included in the page

```
1 <iframe src="https://www.facebook.com/plugins/post.php?href↩
      =https%3A%2F%2Fwww.facebook.com%2↩
      FGreenLeafEcoCleaningService%2Fposts%2↩
      F1766064830131223&width=500" width="500" height="↩
      379" style="border:none;overflow:hidden" scrolling="no" ↩
      frameborder="0" allowTransparency="true"></iframe>
```

2.7 CSS

CSS was used in the design of my website as made it easier to modify the aesthetics of the website, getting it to a state that was more pleasing to the eye. Some examples of how CSS was used were changing the background colour to light blue and changing the font to Arial. A sample of the CSS used is documented below.

3 Enhancements

3.1 Python

If I had more time I would have liked to implement more varied python. For example a system that logs the amount of times a specific page is visited. Another potential feature I would have liked to implement is a forum, a place where CSGO players could discuss the game types in detail.

3.2 HTML Templates

I would have liked to implement if I had more time, would have been to use a generic "Game Type" template for all the game type pages and then have python input all the specific text and images, based on whatever the routing was. This would make it easier to roll out website wide changes as I would only need to change one page. Another feature I would like to have implemented was more web pages, documenting more aspects of CSGO, for example the maps and the weapons.

3.3 CSS

CSS was used in the design of my website as using it to change the aesthetics of the HTML pages was rather easy and fast, allowing me to get it to a state that was more pleasing to the eye. Some examples of how CSS was used were changing the background colour to a dark gray, and changing the font to Arial. Most of the CSS that was used was embedded directly into the HTML files, and as such there is only a couple of lines of code in the style.css file.

4 Critical Evaluation

4.1 HTML Templates

During the development of the coursework, the use of templates was very effective as it allowed me to quickly update the web pages. However, there is a definite possibility that they could have been implemented more effectively, for example the use of a "master" HTML Template could have been better than making templates for each page. I would have also liked to have implemented Facebook's page plugin, rather than having to use iframes to embed posts individually.

4.2 Python

Overall, the use of python was rather effective, as all the routing worked as intended and error handling for broken incorrect URLs was also in-place. I would have liked to implement more varied python and included a few additional features.

4.3 CSS

The use of CSS has definitely improved from coursework 1. As now the website layout has now changed away from that of a default HTML file and is fully functional and working as intended and makes use of both embedded CSS and a standalone style.css file.

5 Personal Evaluation

During the development of this web app, I definitely feel like my grasp on Python, HTML and CSS has gotten stronger and has definitely improved from the first coursework. During the course of this web app's development, like learning how to add pages from Facebook to my own website or learning how to adapt my knowledge from the labs and lectures to my own work. Overall, I feel like I have performed well on this project, and that my time management skills have also improved greatly from the first coursework.