



Nottingham Trent
University

Department of Computer Science

Year 2 - Term 1

SOFT20181: Internet Application Programming

Documentation

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Internet Application Programming

Supporting Documentation

N0123456



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I hereby declare that I am the sole author of this report and that all third-party items including code have been adequately acknowledge and referenced.

Signature

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Table of Content

1. Introduction

1.1 Success Criteria

2. Design Process

2.1 Initial Research

2.2. Initial Design (Justification)

2.2.1 Site Map

2.2.2 Wireframe

2.2.3 Moodboard

2.2.4 etc.

3. Implementation

3.1 Features Developed, Implementation Processes and Challenges Encountered

4. Summary and Conclusion

Sources and Reference

Appendix



Link to Site on the UDON Server :- <https://udon.ads.ntu.ac.uk/staff/cmp3aladet/website-1/web-1/>

1.0 Introduction

This is the supporting documentation for the ecommerce application created for SOFT20181 Internet Application Programming.

This ecommerce application is intended to promote xyz. It consists of 6 pages built using a mobile first approach, the website has been tested on a number of devices including xyz. The Application has been written in HTML5 and is rendered using CSS level 3. Client-side interaction is achieved using JavaScript and jQuery.

The website has been designed to be fully media responsive for optimal display on all sizes of device. Furthermore, all images have been pre-processed via optimisation and compression to reduce loading times and all code has been validated and contains no errors.

In addition, the website has been tested on devices with alternate resolutions and the faults discovered have been removed

1.1 Success Criteria

Everything on the website functions as intended with the exception of a couple of parts which will be discussed in the appropriate sections. There are some known display issues on the website currently. These will also be mentioned in the relevant sections below.

| Success Criteria Point | Priority | Implemented? |
|-----------------------------------|----------|--|
| Website Navigation | Required | Yes , a horizontal navigation bar across the top of the page which links to all internal pages |
| Customised Presentation | Required | Yes , background colour and font size of header elements across all pages can be controlled using JS and user preference stored using local storage API |
| Registration Form | Required | Yes , ... |
| Product Price in other Currencies | Optional | Yes... |
| ... | | |

Sources and references for all material used can be found on the last page of the report.



2.0 Design Process

2.1 Initial Research

Discuss research into similar ecommerce application and any inspirations taken from existing applications.

The design of this web page is aimed for adult audiences ...

Include justifications for your design approach

- The navigation bar at the top of the page to make it easy to find... (user experience considerations)
- Like on many e-commerce websites the menu page are built in a way that allows the user to see all the product types [\[references\]](#)...
- A background video is a standard feature on most ecommerce sites [\[references\]](#), ...
- etc.

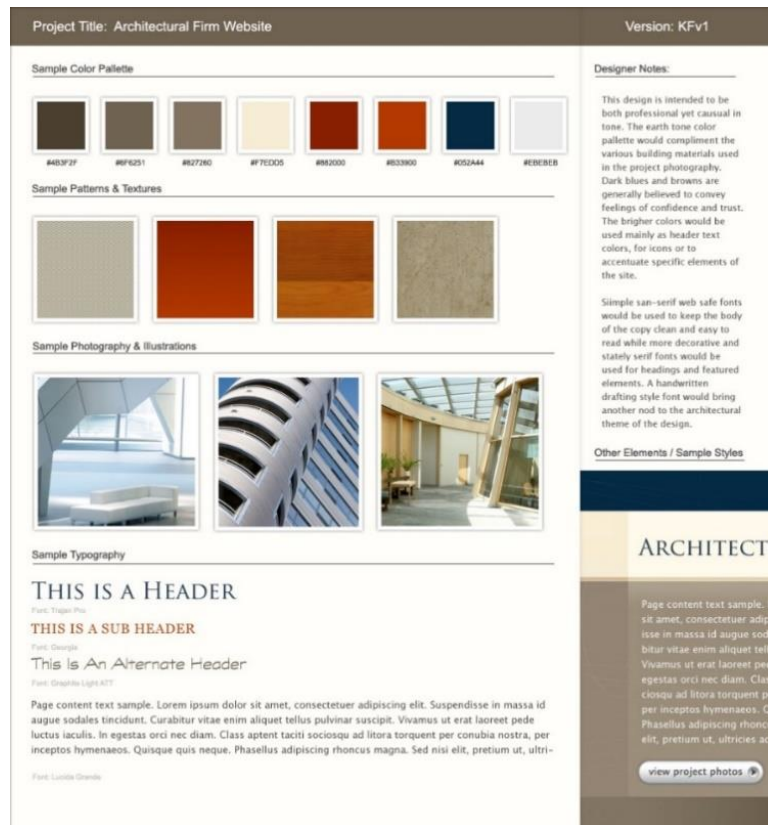
2.2 Initial Design

Put together your sitemap, wireframes, as well as a moodboard to illustrate your visual ideas of the website i.e. colour pallet, imagery style, typography etc. (as shown in the example below) and add design notes around it.

Site Map

WireFrame

MoodBoard



3.0 Implementation

3.1 Features Developed, Implementation Processes and Challenges Encountered

Section 1: Home Page

The home page (index.html) is divided into sections using the <section> element. Short product descriptions are specified using <article> This article includes images. There is an article with an image describing each product:

- red-dragon.html
- dragon-escarlet.html
- red-weapon.html



The articles were contained within an `<article>` tag and paragraphs in a `<p>` tag. Images were included using a `` tag.

...

Section 5: Animated Thumbnails

The product page of the website contains animated product thumbnails that can be expanded when clicked on. As specified in the brief, this incorporates the `setInterval()` and `clearInterval()` methods and is written using JavaScript.

The image thumbnails are selected by class using `document.getElementsByClassName()`. This selects all elements by a particular and puts them into an array. This means that each element can be selected without selecting each by a unique ID.

```
var pic = document.getElementsByClassName('product-image');  
  
pic[2].addEventListener // Select the third image in the array
```

...

The most relevant functions that have been created here are the `imageIncrease()` and `imageDecrease()` functions. Each of these functions specify how the images should respond and when they should stop, and are invoked when the interval has been set. When each image reaches its target size, it is stopped using the `clearInterval()` method:

```
if (width >= 100)  
{  
    clearInterval(interval);  
}
```

Challenges Encountered: The JavaScript for this section is admittedly less than elegant, and some of the functionality can suffer in certain consequences. The thumbnails can act erratically if selected before the previous animation has completed. When resizing images to their default, white space is left beneath.

...

Summary and Conclusion

...



Sources and References

Located using CreativeCommons.org search:

https://upload.wikimedia.org/wikipedia/commons/1/19/Benny_Greb-Unterfahrt_2011-08-30-005.jpg

https://upload.wikimedia.org/wikipedia/commons/f/fc/Benny_greb_photo_wiki.JPG

Audio:

<https://www.youtube.com/watch?v=xyz>

Video:

<https://www.youtube.com/watch?v=xzy> /

<http://meinlcymbals.com/>

Individual product descriptions located on the products page of the site are official product descriptions found at:

<http://meinlcymbals.com/>

Social media icons:

<http://enfuzed.com/free-flat-social-media-icons/>

Home page and additional images located at:

<http://bennygreb.de>