

# Web Technologies - Coursework 1

Andrew McGuire  
40270605@napier.ac.uk  
Edinburgh Napier University - Web Technologies (SET08101)

## 1 Introduction

This document will be documenting in detail along with image previews, the coursework topic website, the coursework has been set and the task is to create a three page website which includes an index page, design page and cipher page.

Documentation will be split into separate sectioned parts, as during development of a website each section is different.

The first stage of this document will be planning the design of the website, documenting colours, fonts positioning of elements such as the navigation bar, images and logos. this will also include preview sketches and a navigational map.

Going onto the second stage , will be development and implementation of coding to the website including screen shots and any changes made during development.

With the third stage will be a critical evaluation of the website comparing your website to the requirements provided along with pointing out what could of been developed better along with how improvements can be implemented in future development.

After critically evaluating the website the fourth stage will be documenting a personal evaluation reflecting on what i have learned, with over coming any coding challenges to succeed in completion, with a general evaluation on how i feel i performed during this development.

Finally all references for any external resources such as music files , images or even snippets of code which were researched and implemented to help in the completion of the website will be referenced, though web development coding and certain other programming languages are classed as open source when using snippets of code from online websites such as stack overflow it is best to reference them as crediting the original author of the code and not classing it as your own.

## 2 Planning

Starting off with the planning of the website coursework all documentation below will be documenting in detail what the website will possibly look like along with information on colours , fonts and elements such as the navigation panel.

Sketches previews of how the website will possibly look like will be provided along with documenting the design chosen

to be implemented and used as the finished project.

### 2.1 Analysis of the coursework brief

From Analyzing the coursework brief, i am tasked to create a 3 or more page website which includes Html, CSS and JavaScript, with the main objective being to create a cipher text crypt ion ,on one or more pages.

### 2.2 What the website will include

The website will include the following elements.

#### Logo

The logo will be positioned at the top of the website , the design is simple and contains green text named "OP-Cipher"

**OP-CIPHER**

#### Horizontal Navigation Bar

The navigation bar included will be horizontal and positioned at the top below the logo, the colour of the navigation bar is yet to be decided, as i will be creating numerous storyboard sketches and choosing one which seems to suit the topic and task at hand better.

#### Background Colour

The background colour of the website is going to be black as the plan for the website is to make it look like a website created by a hacker featured in a stereotypical movie. the font colour used with the black background will match but be suitable for any user to read as with websites requiring accessibility for internet users with visual or physical disabilities, by not inputting any sort of accessibility the website would be breaking the disability discrimination act.

## Font

For the website, the font used will be sized readable for anyone with visual issues along with being a colour not harsh on the eyes and not hard to read, a lot of time and consideration will be put into this.

## Images

Images will be included on the website, preferably on the index page, both the design pages and cipher pages may include images also.

## 2.3 possible elements added to the website

### Audio

A proposed plan of adding audio to the website is in consideration, the audio would be a recorded text to speech voice, welcoming users to the website along with their task to decrypt letters given to them, the text to speech voice will also be edited to sound deeper.

It is a possibility music will be added to add more intrigue to the website but from learning and understanding how music can effect a user along with how it can be classed as severely annoying depending on the music and if it can be started and stopped by the user, generally adding music to a website is classed as bad practice unless you have stop and start buttons in view, preferably letting user the control if the music plays or not as coding the music to auto start is not good practice.

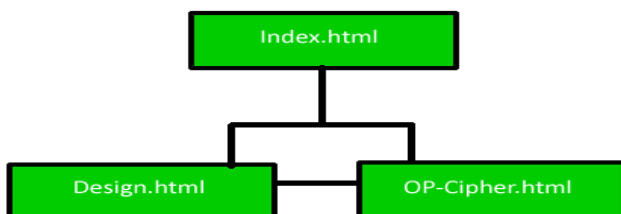
## 2.4 Navigation map ,Wireframe and Storyboard Preview sketches

This subsection will include a navigation map displaying the layout and how the pages connect to each other.

Also featured on this subsection will be Wireframe designs, along with final sketch previews, from here the websites design will be chosen and then development can officially begin.

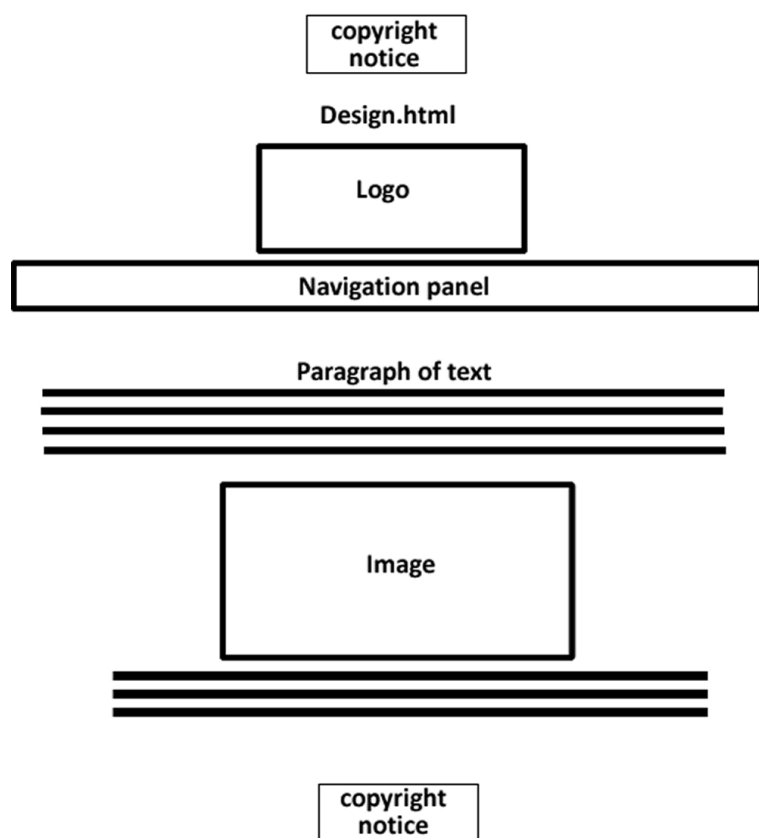
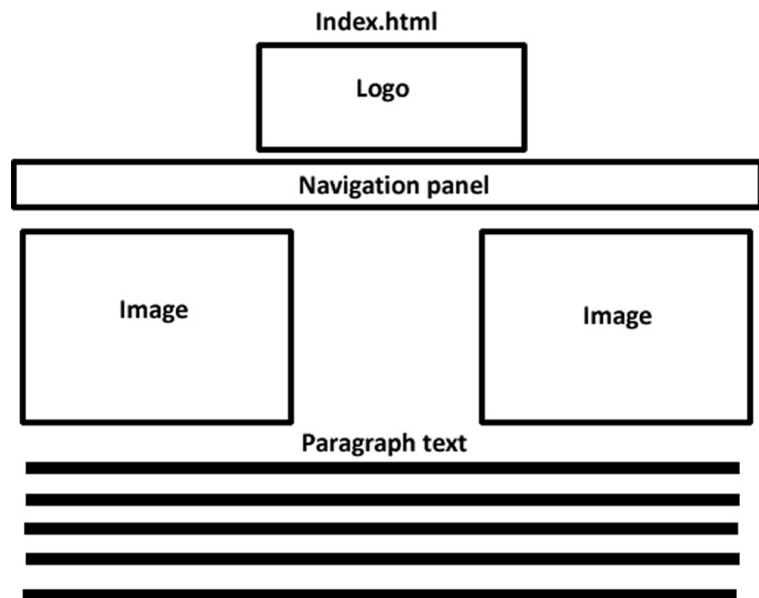
### Navigation map

Below is the navigation map displaying how each three pages connect to each other. map.png map.png

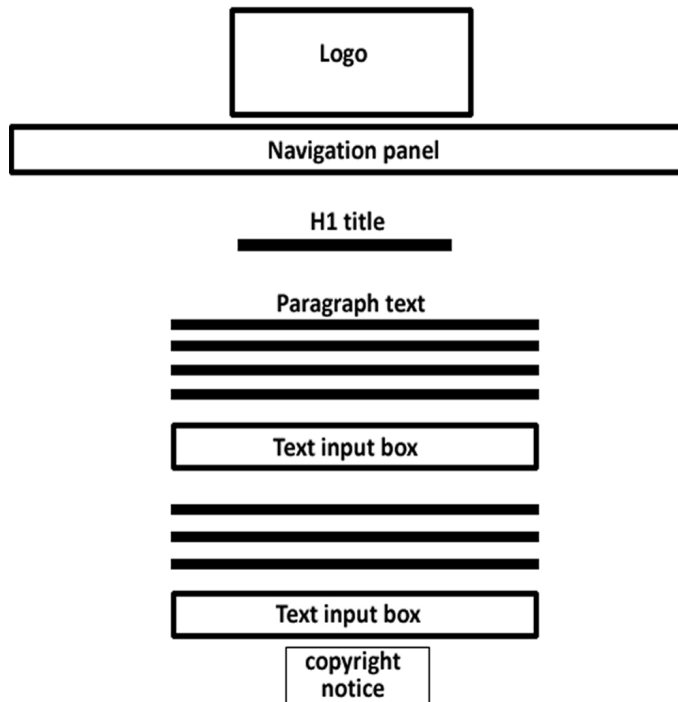


## Wireframe

The Wireframe images below display in what can be best described as a scaffolding sketch on what elements the website may contain and what elements are positioned at certain places, the wireframe will give a brief description of elements on the website but not include colour or actual images, that part of the design is the storyboard sketch preview.



## Wireframe continued part 2



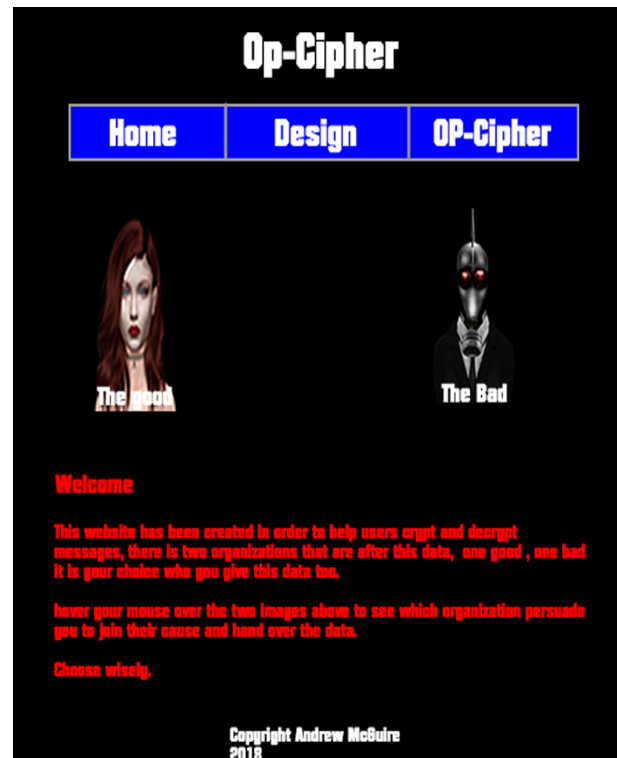
## Storyboard preview Sketches

The sketches below are the first coloured previews of what the website may look like along with images, text colour, after three sketches have been designed one will be picked and turned into the developed product.

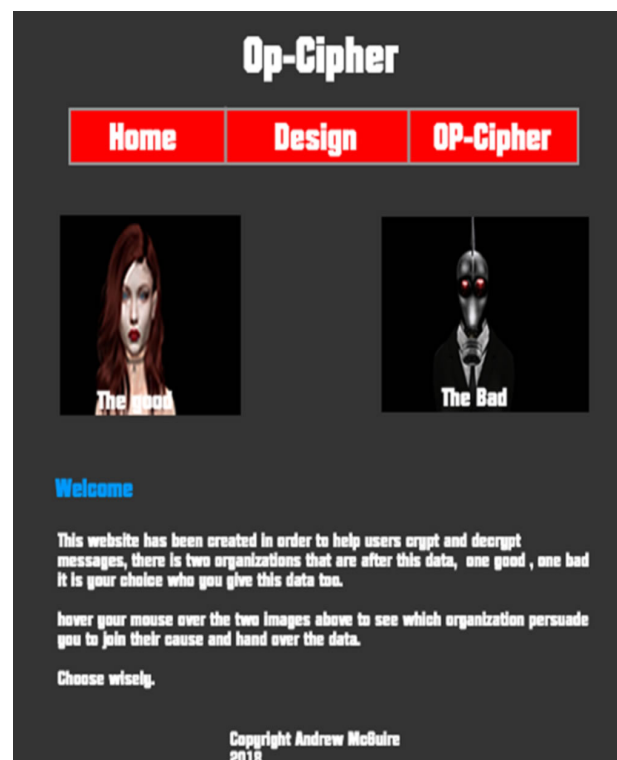
### Sketch Preview 1



## Sketch Preview 2



## Sketch Preview 3



## 3 Development

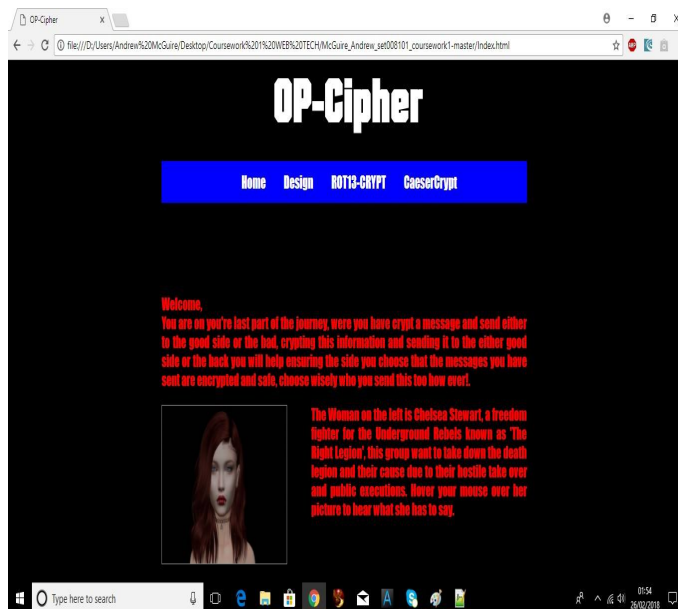
The Development section of this document will document colours , fonts , font size , font styles , image file extent ions and any changes made to the website.

After designing three different website sketches and thinking thoroughly over which sketch to use i have decided to use Sketch preview number two as i personally feel both sketches number one and three would generally not suit the genre along with too many colours clashing on the website making it look non intriguing and a possible eye sore for any site visitors.

### 3.1 Finished Developed website

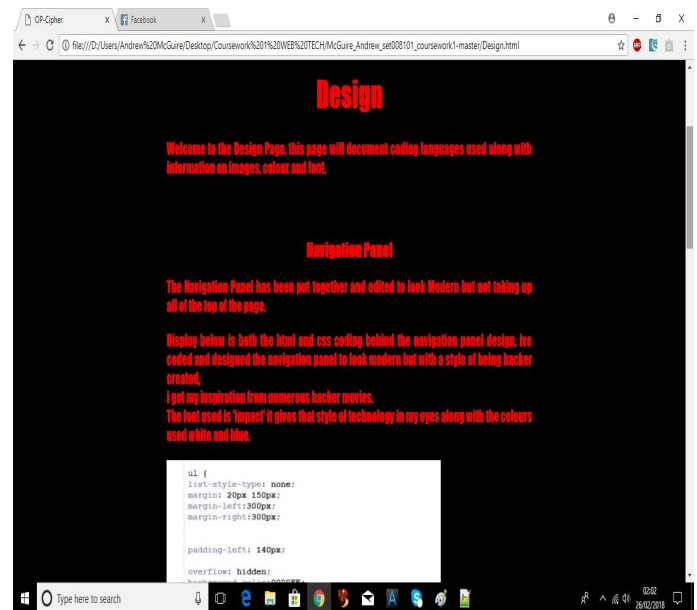
With Development completed but with numerous changes to the original design screen shots along with information will be provided below.

#### index.html



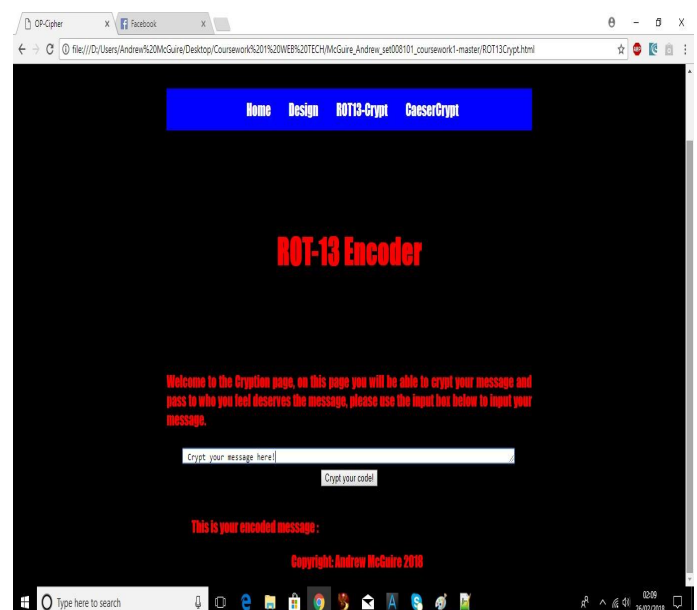
As seen above the index page has taken a small change with images positioning and text alignment, this was due to issues with the image alignment and trying to position them beside each other which became a delayed issue, To prevent any more time being consumed, i decided to position the images one below the other with text wrapped around them, the images them self have a hover which when the mouse is put over them brightens up unfortunately no audio was added.

#### Design.html



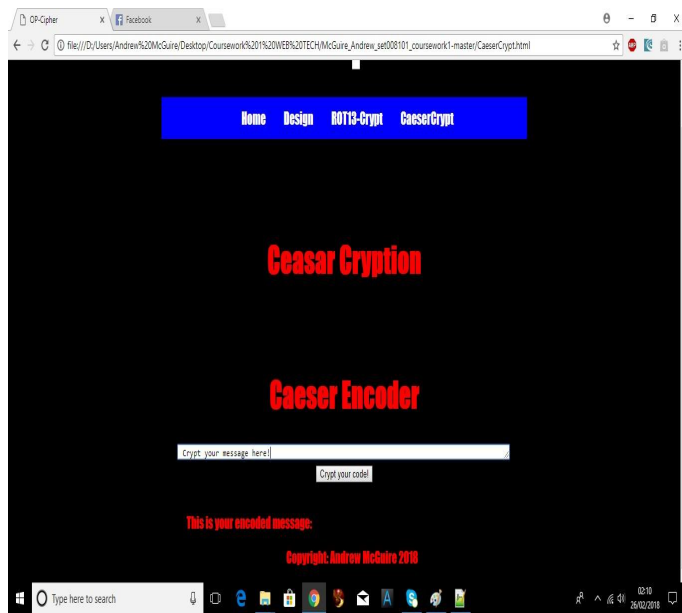
The Design Page also took a small change from the original sketch plan but not a major change, the effected element was the images, as having them as a smaller height and width caused the image content to become blurred by having them at a bigger width and height the image was clearer along with in being aligned and not pushing over the margin.

#### ROT13Crypt.html



Originally named "OP-Cipher.html", The ROT13 page was changed just to implement the ROT13 Cipher, due to when trying to have both the Rot13 and Caesar Ciphers on this page clashed and produced the output text in the same place or didn't work.

## CaesarCrypt.html



The CaesarCrypt.html page was created due to both Ciphers clashing on the originally named page "OP-Cipher.html" so it was decided to create two separate pages for both the Cyphers as the output text caused them both to clash and not work.

### Colours , text , and image extent ions information

Font used: Impact Font size: 20px (Paragraph text)

Font size: 45px (H1 title text) Font-colors used: Red (Hex code: ff0000), White (Hex code: FFFFFFFF), Green (Output text from Cipher) (Hex code: 008000).

Website Background colour: Black (Hex code: 000000) Navigation Background color: Blue (Hex code: 0000FF) Navigation font size: 1.3em

Image extensions used: JPG and PNG file formats.

## 4 Critical evaluation

The website its self was a challenge but successfully completed. viewing the brief once more and comparing my website to it, all brief items have been successfully met.

### 4.1 Index page:

An index page for visitors to land on provided with images, navigation panel with fully functional links and copyright notice in the footer.

### 4.2 Design page:

The Design Page includes information on design elements such as the hover over brightness element , which involves a print screen of the CSS coding used along with information on the navigation panel such as the CSS and html used for that also.

Colours are mentioned but no hex codes provided along with what font family is used which is impact.

### 4.3 Cipher page 1 ROT13:

Functioning Cipher Encryption page, turns normal message via input box into jumbled letters, space below input box displays generated text in green font.

### 4.4 Cipher page 2 Caesar

Functioning Cipher Encryption page, again turns normal message via input box into jumbled letters space below outputs generated text in green font in the Caesar cipher.

### 4.5 What could of been improved

In my opinion, allot could of been improved, starting off with Time management and breaks, time management can be a struggle personally with my self along with not taking longer breaks and over working on the website.

More time learning coding languages needed in this case understanding Javascript better and trying harder with CSS to improve the website elements positioning.

Taking more time to practice designing sketches and planning the website layout better with having pre made backup plans if something went wrong or couldn't be fixed.

Using computers more screen appropriate than my big monitor which can display a website wrongly.

## 5 Personal evaluation

In Overall i feel the website was a complete success but at the same time i need to re-learn alot and look into more tutorials, especially coding and positioning elements on a page.

This is the first website i personally feel looks modern and designed to a certain extent, previous websites i created did not look as modern as this one did.

There was various challenges including positioning of the navigation bar and images and text, to over come and fix this i had to input numerous padding and margin coding in the main CSS file, along with some in the html above paragraphs.

Using my main computer at home was an issue that i discovered after viewing the website on my laptop, the website was completely different and not positioned how i wanted it so to over come this issue i re positioned each element accordingly using my laptop as this would be the machine used for demonstration. When coding the first Cipher page and implementing the javascript, when pressing the button to generate the crypt ed text, nothing happened so by looking up Google Chromes inspect option, it displayed numerous errors which i looked over and researched, some errors though were not displaying the actual issue, so slowly i looked through the Javascript and noticed numerous spaces which COULD cause an issue along with fixing two html elements that ended up fixing the whole code. I have now learned Javascript is severely picky with spaces.

## References

### **Mouse Over Brighten effect tutorial**

Mouse over to brighten image effect - Author Joshua Johnson

<https://designshack.net/articles/css/joshuajohnson-2/>

### **Step by Step Cipher tutorial**

Javascript coding used for Cipher coding with minor edits - Author Simon wells

Location Moodle lab05 pdf.