

# WebTech Cipher Assignment

Adam Storey  
40325362@live.napier.ac.uk  
Edinburgh Napier University - Web Technologies

## 1 Introduction

In this report I will be writing about my expected plan for my design and development of the Caesar Ciphers website in which i have created, and the way I approached it in the end. I will also be writing about the implementation of my project, describing in a short description as well as this I will also then be speaking about the critical evaluation of my implementation, including a comparison against the requirements set out for my project of Caesar Ciphers and also including possible improvements to my project that could be made. I will also then be adding in a personal evaluation from myself too, reflecting on what i have learned in this project by creating the Caesar Ciphers website, what I could take on board, the challenges that I have needed to face, methods of on how I overcome these challenges and how I think I have performed in this Caesar Ciphers project. References will also be included.

## 2 Software Design

The way in which I am going to approach my implementation, is that I am going to firstly going to take the approach of deciding on the two ciphers in which I will be speak about in this project and have the website based on both of them. ROT-13 Caesar cipher, which is a basic simply cipher which replaces and rotates letter by 13 places, for an explanation N becomes A O becomes B and many more where as for Caesar also known as a shift cipher is one of the one basic cipher is known as a encryption techniques. This Caesar cipher replaces plain text by a letter in some fixed down within the alphabet, for an explanation D would be replaced with A E would be replaced by A. I then wen onto design the website, by using a navigation diagram to also organise the layout of the website and in relation of each other. Secondly I will then choose I will then also decide on what software I will also be using to code the website and the requirements in which is needed, after this i will then start to develop the website with all has been requested within in. After developing the website I will then go on to test the website to make sure that the website is working correctly.

The requirements in which we were requested and which will be used for the website is listed below.

Hardware(non functional)

Computer Desktop Monitor Keyboard Mouse Coding Software

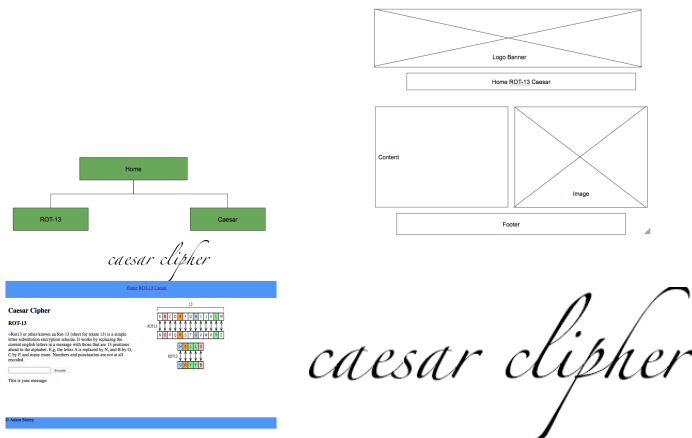
Software(non-functional)

Web browser Index Page Cipher pages(two Chiphers) Colour Scheme Navigation Diagram Design Page

## 2.1 Implementation

The implantation was firstly planned by creating an idea of the website, I then went onto create an navigation diagram and a wireframe, in which I have added screenshots of below, after doing this I then went on to decide on what software I was using and started coding the website in which I have created, after creating the website I went onto testing to make sure everything in each page was working in the way it should be.

The colour scheme in which I have with is White, Blue and Black. The reason within why I have went with this colour scheme is due to the fact it looks clean, smart and draws to the user eye to it.



## 2.2 Critical Evaluation

- A comparison against the requirements set out in this document.

In the comparison against my requirements I feel that I met all of the requirements in which i was requested and also been asked to carry out during the project of creating a website based on two Caesar Ciphers, for an example navigation diagram and etc. I am quite pleased with the outcome of the project and of the website.

- Possible improvements to your application, for example, what did you miss out? The possible improvements in which I could improve on in this project is my timescale, as I could of started sooner than I did. Another possible improvement which I could improve on the design abstract to the project of Ceasar Cipher as the design side was not my strong point within this project. I would also change my JavaScript coding so that non capitals letter would work also within my JavaScript. I will take these three things into considernation for my next project. The things in which I also missed out on in this project was audio which I could of possible included.

## 2.3 Personal Evaluation

In this project about Caesar cipher where I designed and developed an website which I based and spoke about ROT-13 cipher and Caesar, in the site I created a decoder on both of pages, ROT-13 Caesar where it did the work for me as well as having some useful and interesting content about both of the ciphers.

Reflecting back on my time on this project I have felt that I have learned more about my coding skills, how I could improve in the design section of a web development project, I have also learned about ShareLatex as well as learning about how to use GitHub. The method that I used to overcome these challenges was to take my time, not rush and get used to using to both of them, after making a few mistakes on ShareLatex and GitHub I finally got the hang of both of them.

### 3 Conclusion

In this project I firstly needed to decide on what Caesar Ciphers I was going to speaking about, secondly I then went onto design the project, I did this by creating an navigation diagram, I decided to use an navigation diagram as it was laid out properly and I knew I was doing at each stage during development stage after doing this I then onto to do the requirements for the website, such as functional requirements and non functional requirements which was needed. After completing this continue on the project by commencing onto the stage which was the development stage where I started to develop the website after the completing of the website I then went onto do the essay.

We were instructed to use GitHub and ShareLatex, which I never used before I therefore had to learn more about it and how to use, after adjusting after a while I then found it familiar to use.

I found this project quite interesting and informative though I have throughly enjoyed during this project which I feel like I have learned a lot on.

## References

<https://en.wikipedia.org/wiki/ROT13> [https://en.wikipedia.org/wiki/Julius\\_Caesar](https://en.wikipedia.org/wiki/Julius_Caesar)