Student Name: Zhengquan Jared Koh
Supervisor Name: Andrew Coles
7 October 2015

Progress Report 1
The Evil Url Shortener

In Today's society , we are too trusting. We trust the technology of web applications , websites , mobile applications etc etc because it automates our daily activities, it improves our productivity and it helps us to cut corners. Nonetheless , it makes our lives easier to live. From having keychain in Mac OSX to save your passwords in iCloud , to trusting bit.ly one of the most popular url shorteners around , we as normal users dont really see the danger of using these services.
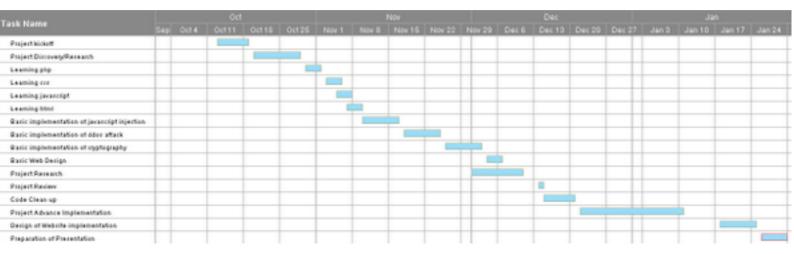
As for my final year project , I am going to embark on a project that would allow us to see how dangerous a certain service could be if it was developed by someone who cant be trusted. The project is offered by Mr Andrew Coles : An Evil Url Shortener. In this project i am going to explore what an evil url shortener could do behind the scenes without affecting the front end thus users like us would be tricked into the "nothing bad is happening" mindset. I will explore and will be implementing the concepts of phishing , DDOS attacks , javascript injection etc etc. By doing this , i would be able to get sensitive information of the user without the user knowing , crashing a server etc etc. The aim and objectives of the project is to show how an url shortening service could be used for bad purposes if it is not developed with good intentions. The underlying objective is to also identify with web technologies to see how powerful a language can be, and learn how they work together. Upon doing so , i would be able to find exploits along the way to see how i could make use of them for evil purposes.

I will be getting free hosting from hostinger, in which i will test my code on. I will be using html , css , javascript , php , sql , jQuery , Ajax, bootstrap. I may also use external APIs , and scripts. I am working on a 13 inch Macbook pro Mid 2012 running on El Capitan.

Explaining Figure 1.1 : I am now understanding how web technologies work together and also learning the languages that i require to build this website as i go along. After this i will start building a basic implementation of the website and its features, I expect that would take about a month. and after that i will be having a review on my work to see that if it is feasible to add more features or improve on the existing ones that i have already. I will move on to Code clean up after that to settle it for the basic requirement for the project to make it presentable and having efficient and properly documented code. I will then proceed to have to add additional features/make more sophisticated features in my project to take things further. Upon closing to the submission date , i will then design my website to make it look professional and something that someone would use. I would then prepare for my presentation and check on my work. All the gaps in the timeline are catered for buffer time. As i have ended my timeline a bit earlier. I have also catered more time for buffer as in project management it is always good to have some buffer time in case any unforeseen circumstances comes along the way.

Figure 1.1