***CI453 Group project***

Within this report, it will discuss and review detailing how the assessment brief has been met, the initial task was to create a website, using sources such as the National Cyber Security Centre’s website, etc, detailing on the understanding of security mechanisms that can protect information systems, a resilient information security program aids in protecting organisation’s technology assets, physical or virtual, from malicious attacks outside or within the organisation.

The website also aims to deepen the understanding of the issues around privacy in business information systems because information regarding business relations is usually sensitive information.

The created website also enables the students to understand, use, and develop the techniques for mitigating privacy threats through appropriate security measures as these tools will be essential to remaining safe and secure on the internet while dealing with information systems.

Before beginning the creation and development of the website, the group first came together, discussed ideas and how the website can be laid out, where information can be set and what other things can be potentially included, like quizzes, glossary, etc. The group then developed a rough idea of the site’s wireframe which was later confirmed to contain three - four columns each splitting into different sectors of information, this is a suitable wireframe because it is a clean and formal way of presenting information on a website, including interactives such as clickables, will keep students engaged and allow our group to feature a few highlighting bits of information in a condensed space, the three column wireframe of ours also was beneficial as it allowed editing and adding information much easier, another physical benefit to this sort of layout is that it will reduce eye strain as most of the page and its information will be split into 3 columns.

Another benefit to having 3 separate columns is that the website will be accessed on a variety of devices, from desktops to phones, and the 3 column layout will have a fixed width, offer great design control, and ease of build, so this will allow for appropriate GUI behaviour, viewing glitches should be a minimal, and because the three column layout is easy to program, this means it should keep the code at a comfortable amount and should not overboard with code, and it should allow for page elements to position easier.

The first section was on cyber security where information regarding how to avoid cyber-attacks, such as trojan horses, viruses, etc is discussed, this is vital information for younger students because a large majority will use the internet to do several things, such as browsing, communicating and learning. Additionally, internet access within the 21st century has grown substantially in recent years, which subsequently means more users on the internet, and more opportunity for malicious attacks on users. The site will offer insight and information on negating these at the best of the user’s abilities.

\*TALK ABOUT INFO SEC\*

The last section is regarding network security and the fundamentals of it, this section of the website discusses how network security is an extensive topic, how a collection of configurations that use both hardware and software can maintain and help protect networks and related data. This meets the assignment brief of techniques for mitigating and avoiding privacy threats through appropriate controls because the website offers insight on four differing network managers that students will learn upon visiting the site, the four network managers are encryption, and discusses how encryption works, what tools are required, such as a decryption key, etc, and how it keeps sensitive / private data secure, by turning sensitive data into an unreadable format. Firewalls and how they’re an essential piece of software that can protect against malicious viruses, etc. authentication and MAC address filtering. Discussing authentication and MAC filtering both meet the assessment criteria as it further discusses how students can mitigate threats using these managers.

\*CONCLUSION WORKED ON TOGTHR\*