

Individual Reflection

Our team was tasked with doing penetration testing in order to discover and analyse security risks and vulnerabilities on a website for the Network and Information Security Management module. The Design Document and the Executive Summary were the two components of the project. Marzio, Sebastian, Shoumik, and I were the members of our team.

However, we interacted with each other over WhatsApp as usual because we had already worked together. Since Shoumik is in a different time zone, we planned to maintain the meetings at a specific time so that we could be on the same page and review the project's tasks and progress on a regular base. We shared our knowledge and technological talents with Shoumik to become friends, and we concluded the contract agreement at our first Google Meet meeting.

Further to our introductory meeting, all team participant was given an assigned tasks to examine the various suggested websites as from the project, as well as their related business objective. As a result, we were able to agree on the *"e-health site that provides registrants with medical and fitness information and guidance, provided by medical professionals"* as our assignment's chosen website. Our system's role and goal are to save personal information about the registrant's health and to provide medical experts with information.

Additionally, after the website was picked, we each had our own section of the Design Proposal Report to complete, and my task was to create a background summary of our eHealth website as well as design the project schedule Gantt chart. Accordingly, I considered it relevant to engage in the first collaborative conversation, which was focused on "Compromising a Medical Mannequin," in order to discover more about the project background for our chosen eHealth website. So, I initiated a post about the challenges faced by the Food and Drug Administration in identifying medical device failures from deliberate or malicious activities in order to get my peers' perceptions. This has definitely helped me write the project background for the Design Document. The e-Portfolio contains a summary of the [collaborative discussion](#). As a consequence, I looked at the existing host system, databases, and development platform, as well as any other needs that existing eHealth

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websites had. My contributions to the [Design Document](#) may be accessed on the e-Portfolio (Kalina Mohonee e-Portfolio, 2021a).

Following the submission of the Design Document, we launched the penetration testing using the tools indicated in our Design Document, as per the project timeline. Similarly, the penetration testing phase was distributed among the team members, with Shoumik and myself assigned to NMap, Nikto, Skipfish, and ZAP. The [penetration tests](#) carried out on each of the above-mentioned tools, as well as their interpretations may be accessed on the e-Portfolio (Kalina Mohonee e-Portfolio, 2021b).

In the meantime, we began working on the executive summary for our project and kept track of its development. My job for the executive summary piece was to write about GDPR directives and show how GDPR rules were implemented to our eHealth website. This task gave me the opportunity to put my analytical thinking abilities to use in a collaborative setting. Because I finished my allocated work ahead of schedule, I was able to contribute even more to the project by taking on the responsibility of writing the analysis of the DREAD technique for threat assessment. I could picture myself honing my entrepreneurial abilities by taking charge of this. My contribution to the [Executive Summary](#) document may be accessed on the e-Portfolio (Kalina Mohonee e-Portfolio, 2021c).

Consequently, participating in both the Design Document and the Executive Summary report has been really beneficial to me since it has allowed me to put some of the skills, I have learned in prior units to use. For instance, during discussions on the design document, I might take the initiative and lead the project by specifying the stages to be taken. In addition, I was able to comprehend the process of demonstrating several key security concepts including vulnerability assessments, penetration testing, forensic analysis, and breach management, which include:

- Finding and assessing security risks and vulnerabilities in IT network systems and considering the best approaches, tools, and strategies for managing and resolving them.
- Creating solutions to assist manage, audit risk and security concerns by designing and critically evaluating computer programs and systems.
- Obtaining and combining data from a variety of sources to help in the methodical study of security breaches and problems.

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- Defining the legal, social, ethical, and professional problems that information security practitioners must deal with.

Now I would want to focus on our team's strengths, which include being extremely communicative, well-organized, and considerate of each other's personal and professional obligations. And we completed our given work on schedule, demonstrating each individual's dedication to the project's success. Moreover, the positive feedback we received for the Design Document, which described it as “excellent demonstration of knowledge application and excellent presentation, well structured,” encouraged our team to strive for greater heights and indicated that we had finally grasped the module's objectives. On the other side, the main problem in the own team's report was that it was presented in an unstructured manner, as indicated by prior report comments that some parts were misplaced in the report, was finally cleared (Network Security for University, 2020).

Eventually, I will undoubtedly utilize the same organized method for future team development projects, which will allow me and the other members to keep a better eye on the project's development. This module has also helped me completely grasp the fundamental concepts of Network and Information Security Management methods, such as providing crucial justifications for particular actions or results to a varied audience. After completing this lesson, I am confident in my abilities to use the security vulnerability and assessment tools at my business. Rather, I will be able to help my co-workers by putting the abilities I have learned in this subject to use.

References

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