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Secure Coding 22EW3

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Reflection

**Adoption of a secure coding standard, and not leaving security to the end**

Throughout this course is has become apparent that adopting a secure coding standard and not leaving security until the end is important. Secure coding standards assist in maintaining security and solving issues before data leaks occur. Saving security until the end leaves a company open to attacks. This vulnerability could be dangerous and can be avoided if security is implemented in the design as the code is being developed.

**Evaluation and assessment of risk and cost benefit of mitigation**

Understanding the risk and cost benefit of mitigation is important when analyzing issues. Some coding issues the mitigation cost is not as severe as others. If the user understands the potential mitigation cost and the severity of an attack then they can address the issue more efficiently. The developer will also have a deeper understanding of how well they are handling risk management and what steps they should take in order to improve it.

**Zero trust**

This policy takes the cautious approach of trusting no one. The pros to this are the fact the developers will likely have to deal with less vulnerability and potential attacks. This is because more security measures are put in place such as permissions and limited access to files. Ultimately this helps increase data protection and the overall protection of the database. The cons to this set up are the fact it takes time to set up and managing users can be difficult to keep up with depending on the number of users in a database.

**Implementation and recommendations of security policies**

Implementing security policies can be daunting at first. It is best to identify the risks in your database and/or system. What are the potential risks that could occur? How can you prevent them? Understand the level of security that would need to be implemented in order to prevent an attack from occurring or limit its impact on the company and users. These security policies are recommended in order to maintain a stable database and secure the data within in.

**References**

Tucker, K. K. (2021, July 22). *Pros and cons of the Zero trust model*. Infused Innovations. Retrieved February 25, 2022, from https://www.infusedinnovations.com/blog/secure-intelligent-workplace/pros-and-cons-of-the-zero-trust-model