CS 405 Module 8 Journal

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The concept of adopting a secure coding standard is to provide standardized procedures in the creation and maintenance of products. An outline that is proven to be effective in production and security purposes allows for clear, consistent, and repeatable production practices. Instead of leaving security to the end, where all the items must be caught at once, and depending on where the problem was the team may need to start over, we can implement security in each step of the development process. It can be tested and verified at each phase, and if found corrected directly in that phase instead of editing everything again at the end.

When looking at the concept of mitigation regarding secure coding practices and standards, there are certainly pros and cons regarding the cost and benefit of the concept. The cons are the time and money it will cost to not only implement the plan but to maintain and update it as needed, as well as the additional training and/or experienced personnel to handle the standards. The pros, however, heavily outweigh the cons as it provides a clear, concise, consistent product free and clear of errors. The prevention of a potential attack or security breach can save the company tenfold of the cost to implement the plan. The standard will also help reduce time in troubleshooting and creation of product.

Zero trust is the concept of everyone involved, is a potential security threat and should be prohibited access unless proper authorization and authentication is performed. It removes the risk of potentially compromised equipment and/or user access within the system and allows for compartmentalization of the various components to discourage attacks as each component would have to be broken into.