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CS – 405 Secure Coding

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Module 8 Reflection

* Adoption of a secure coding standard, and not leaving security to the end
  + By adopting a secure standard, it gives the developers a base to reflect their code by using best practices. By using best practices that are clearly defined in the secure coding standard. By following the standard, it should decrease the risk of vulnerabilities. This also keeps the developers responsible. As the supervisors are responsible for their actions.
  + By not leaving security to the end, it helps to ensure that securing the code is a priority. If left for the end it may not be able to reach the time constraint of the project. Allowing for the application to not be as secure as it should be. This could allow for too many vulnerabilities that is not able to be addressed in the manner that they should.
* Evaluation and assessment of risk and cost benefit of mitigation
  + When evaluating the application some vulnerabilities are not simple fixes and not be fixed prior to the implementation of the application. However, an assessment needs to be completed to determine how much time and cost it will be to find the fix for that vulnerability. As well as what is the risk for that vulnerability to be found. As this could be damaging to the company depending on the amount of data that can be accessed and if this bypasses other security layers to help protect this information.
* Zero trust
  + This is not trusting anyone by default. Not allow access and maintain control of who has access to which information. As we never truly know any intent of the user. Not trusting them allows for the developer to secure the application in the best ways possible to work to protect the data from all angles.
* Implementation and recommendations of security policies
  + This is important to securing the code, as well as any changes made to the code. As there could be a change to the system that would cause new vulnerabilities. Any recommendations for changes should be taken into any account. If this is the best way for a solution then it woud be recommended to implement this