Southern New Hampshire University

CS 405 Secure Coding

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**Explain what the following statement means as a best practice in secure coding: “Don’t leave security to the end.”**

Don’t leave security to the end means to not put off the development of security measures when coding to the end of a project. By putting off security measures, you create the possibility of running into issues with the project and its protection that is caused by unreliable code written. Another issue could take place depending on the safety set of code. Those areas may not be compatible with one another and could potentially cause a development team to have to start the project over to accommodate any sections of security that may be needed.

**Describe the steps you can take to prevent threats**

There are a few steps one could take in preventing threats, such as:

1. Use a multi-layer security system! This ensures a program does not just rely on a single set of defenses.
2. Request for the use of ethical hacking events. This helps give up to date problems with development and prevents returning to a project when an attack takes place.
3. Getting peer reviews! Peer reviews before the submission of the code helps identify any problems in that set of code and allows you to correct those issues before submitting them to the main project.
4. Multiple automated testing! Tests like JUnit testing should be performed.

**Provide one example that you can include in your Project Two presentation of how you plan to ensure that security is addressed intrinsically and not left until an issue is discovered.**

For this, I’ll include unit testing in my project. I have done JUnit testing in a few of my previous courses and feel very confident in doing them. In this class I have learned to use other tests to be able to pinpoint warnings and errors that had not been caught by the IDE when creating the projects, such as CppCheck which we used for this class. When you use both CppCheck and JUnit testing it can help find issues or mistakes that were missed due to human error or missed by other tests or programs.