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CS-499 Computer Science Capstone

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**Journal Entry: Module 2 What makes a Productive Code Review?**

**Part 1:**

1. **What is code review?**

A code review is a visual inspection of code by another fellow developer that helps to ensure that what has been written is correct, that it meets coding standards, that it is easy to understand and follow, that it is efficient, that it is consistent with the project outline, and that it catches any bugs or security-related issues. In other words, does the code work and function as it should? Is it documented properly with comments for other developers to understand? Are there any security vulnerabilities, and does the code perform at its optimal rate? (**Place, L. (2025, March 8). *8 Essential Code Review Best Practices*. )**

1. **Why is it an important practice for computer science professionals?**

It is an important practice for computer science professionals because it helps to catch bugs and any security issues before a code is activated to go live. It helps to promote constructive criticism and fosters learning and growth within the development team. It helps to hold everyone accountable to the same standards of coding.

1. **What are some code review best practices that you read about in the resources that are crucial to include in a code review? Include when a code review should occur in the development process with a rationale as to why.**

Some of the best practices that I read about in the resources are crucial in my opinion are:

* 1. Review fewer than 400 lines of code.
  2. Do not review for more than 60 minutes at a time.
  3. Set goals and capture metrics
  4. Use checklists

A code review should occur in the development process during the milestones. For example, let's say that multiple developers are working on different parts of code. Then you would want to do a code review before taking all those parts of code and putting them together.

(**SMARTBEAR. (n.d.). *Best Practices for CodeReview*.Smartbear.com.)**

**Part 2:**

1. **What software have you chosen to use to record your code review?**

I have chosen to use ScreenPal to video-record my code review.

1. **Describe your approach to creating an outline or writing a script for your code review for each of the three categories that you will be reviewing based on the rubric as well as the code review checklist.**

My approach to creating an outline or writing a script for my code review for each of the three categories are :

* 1. Describe what the functionality of the code is.
  2. Describe what the requirements of the code are.
  3. Describe any part of the code that doesn’t function as intended.
  4. Briefly summarize any issues with the quality of the code
  5. Briefly summarize any security vulnerabilities

**References**

**Place, L. (2025, March 8). *8 Essential Code Review Best Practices*. Wiz.io; Wiz.io.** [**https://www.wiz.io/academy/code-review-best-practices**](https://www.wiz.io/academy/code-review-best-practices)

**SMARTBEAR. (n.d.). *Best Practices for Code Review*. Smartbear.com. https://smartbear.com/learn/code-review/best-practices-for-peer-code-review/**

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