**2-1 Journal: What Makes a Productive Code Review?**

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**Part 1:**

1. **What is code review?**

Code review is the in-depth assessment of a code to identify any defects, strengthen code quality, and deepen the understanding of the source code (Akinosho, 2022). The code review is performed by someone other than the original programmer, as having a fresh pair of eyes makes it easier to spot errors (Akinosho, 2022).

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

Code review is an important practice because it helps increase the quality of the code (PIO Team, 2023). This practice can also promote teamwork and knowledge sharing and can result in a smoother software development lifecycle (PIO Team, 2023).

1. **What is 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 best practices for code review include limiting the number of lines reviewed at one time to 200-400, limiting the review time to no more than 60 minutes, and not rushing through the review, setting goals and capturing metrics, and creating a process for fixing the identified defects (SmartBear, n.d.). The use of checklists is also beneficial for code review, as they help eliminate frequent errors (SmartBear, n.d.). Checklists are also crucial for identifying omissions, a task that would be difficult without a proper checklist (SmartBear, n.d.).

A code review should take place early on the development process (Udoagwu, 2023). By detecting defects early on can reduce the chance of cascading problems, reduce the costs of correcting the defects, and help maintain the codebase’s stability (Udoagwu, 2023).

**Part 2:**

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

I plan on using Clipchamp to 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.**

To create a script for my code review, I plan to first go over the checklist and then look at the code. This allows me to know what I am looking for before beginning the review process. I plan to write out what I am doing step by step to reduce the chance of losing my place and becoming confused during the recording process. I will also practice my code review before starting the recording. As someone with a terrible fear of public speaking (that includes recordings of myself), I’ve found that being prepared lessens the anxiety and helps me stay focused and on track.

References

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