2-1 Journal

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Part 1:

1. What is code review?

A code review is where one or more people check code to mitigate mistakes. Typically, this process is done to reveal bugs, to improve overall code quality, and to adhere to best practices.

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

Code reviews are an important practice for computer science professionals because of the value they add to code. Code reviews enhance collaboration and helps teams work together to ensure high-quality code is delivered (BrowserStack, 2023). Enhancing the code quality reduces bugs reaching production and facilitates knowledge sharing among team members.

3. 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.

After reading the resources some code review best practices I found to be crucial to include in a code review are to set goals and capture metrics, authors should annotate source code before the review, use checklists, establish a process for fixing defects founds, and foster a positive code review culture. According to SmartBear's article on best practices for code review (https://smartbear.com/learn/code-review/best-practices-for-peer-code-review/), these practices are effective for code reviews. Code reviews should occur throughout different stages in the

development process. Approaching code review this way will ensure that any issues are addressed, and quality is maintained throughout the SDLC.

Part 2:

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

The software I have chosen to use to record my code review was QuickTime player. This is an application that is used on MacOS to screen record. I will then use an application that converts the .mov file to a .mp4 file which was required.

5. 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.

In creating my outline for my code review, I will ensure to discuss the three categories while following the rubric and code review checklist closely. Writing a script that breaks down each section of existing code, explaining its functionality while also highlighting weaknesses throughout. Approaching my outline this way will allow me to explain each category in depth while maintaining clarity throughout.

References

Best practices for code review. smartbear.com. (n.d.). https://smartbear.com/learn/code-review/best-practices-for-peer-code-review/

Benefits of code review: Every team must know. BrowserStack. (2023, April 28).

https://www.browserstack.com/guide/code-review-benefits