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Module 2-1 Journal

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**What is code review?**

Code review is the process of finding and fixing mistakes in code that are missed during the initial development phase. Code review is something that can also be done as a team. It helps to ensure quality, improve maintainability, as well as identify any bugs in the source code.

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

Code review is an important practice for computer science professionals not only for identifying mistakes in code but also for quality assurance. Code review is also essential for code security. It can help to identify any potential security vulnerabilities early in the development process. Code review is also helpful for knowledge sharing. A team can use code review to share knowledge and different prospectives on the code being reviewed.

**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 code review best practices include reviewing fewer than 400 lines of code at a time. This practice stood out to me because it makes sense that trying to review any more lines of code can definitely lead to mental fatigue and defeat the purpose of code review. Another practice that really stood out to me was the use of checklists. This practice stood out to me because of the great checklist we were given as a resource for this milestone. Code review should occur at all times in the development phase because bugs and security vulnerabilities can be caught early on and later in the development phase.

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

The software I have chosen to record my code review is my Samsung camera app.

**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 a script for my code review is to first go by each category and make sure I have answered the questions listed for each category. For category one I plan to focus on the code’s functionality clearing explaining the purpose of the code. Next, I will use the checklist given to us to review the code critically explaining weaknesses in the code in the script. Finally, I will summarize my plan for the enhancement of the code. For category two I will do the same but focusing on the data structures and algorithms and finally for category three the focus will be on the databases.