Task 2 Answers

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1. Approach to Discovered Issues:

To address the issues mentioned, I would suggest the following approach:

• Test Driven Development: We will implement test-driven development (TDD) in the team. TDD helps in catching the bugs early in the development cycle, ensuring that the code is functional and adheres to the specifications, thus saving time and improving code quality.

• Continuous Testing: We will incorporate continuous testing in our development cycle to ensure that our tests run with every code commit, preventing bugs from creeping into the codebase.

• Agile Development: We will adhere to agile development methodologies and follow the Scrum framework to ensure that our tasks are adequately defined and prioritized, and our goals are well-defined. This would reduce the ambiguity in the definition of done and help the team to stay focused on the goals.

• Code Reviews: We will perform regular code reviews to ensure that the code adheres to coding standards and is of high quality. Code reviews will also help in identifying potential bugs and ensure that the developers do not have to rework the code frequently.

• Performance Testing: We will conduct performance testing to identify bottlenecks in the system and address them proactively. This would ensure that the application performs well and remains fast even as we add new features to it.

2. Summary to Convince the Team:

I believe that implementing the suggested approach would help us improve the overall quality of our code and address the issues we are facing. By adopting test-driven development, we can catch bugs early in the development cycle, which would help us save time and effort. Additionally, implementing continuous testing would prevent the codebase from getting cluttered with bugs, leading to a more stable application. Adhering to agile methodologies would help us stay focused on our goals, reducing the ambiguity around what constitutes a "done" task. Regular code reviews would ensure that we are adhering to coding standards and that the code is of high quality. Finally, performance testing would ensure that our application remains fast and responsive even as we add new features. I believe that adopting this approach would lead to better development speed, higher code quality, and improved user satisfaction.

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