

Summary of Updates Made After Feedback

In response to the feedback, the following improvements have been implemented to enhance the overall quality and clarity of the assignment:

Code Documentation:

Comprehensive comments have been added throughout the code, particularly in critical sections, to clarify the thought process behind the implementation. This will make it easier for others to understand the code's functionality and purpose.

Lamport Clock Integration:

The Lamport clock algorithm has been integrated into the system, meeting the project requirements. This ensures proper synchronization of events across distributed systems, maintaining their causal relationships.

Testing Enhancements:

Extensive testing has been completed, covering various aspects:

Unit Tests: Each individual component has been thoroughly tested to verify that it functions correctly on its own.

Edge Case Tests: The system has been tested against uncommon or extreme conditions such as network failures or boundary issues.

Integration Tests: Multiple components were tested together to confirm that they interact smoothly and work as intended in combination.

Design and Documentation:

A design sketch has been created and uploaded, which visually represents the architecture and workflow of the distributed system. This provides a clearer understanding of how the system components interact.

The README file has been revised to include:

Step-by-step instructions on how to compile and run the code.

Information on setting up the environment, including any dependencies and configuration steps.

Implementation Clarifications:

Additional details about the implementation have been added to the README, explaining the interactions between different system components and providing further context to the design choices.