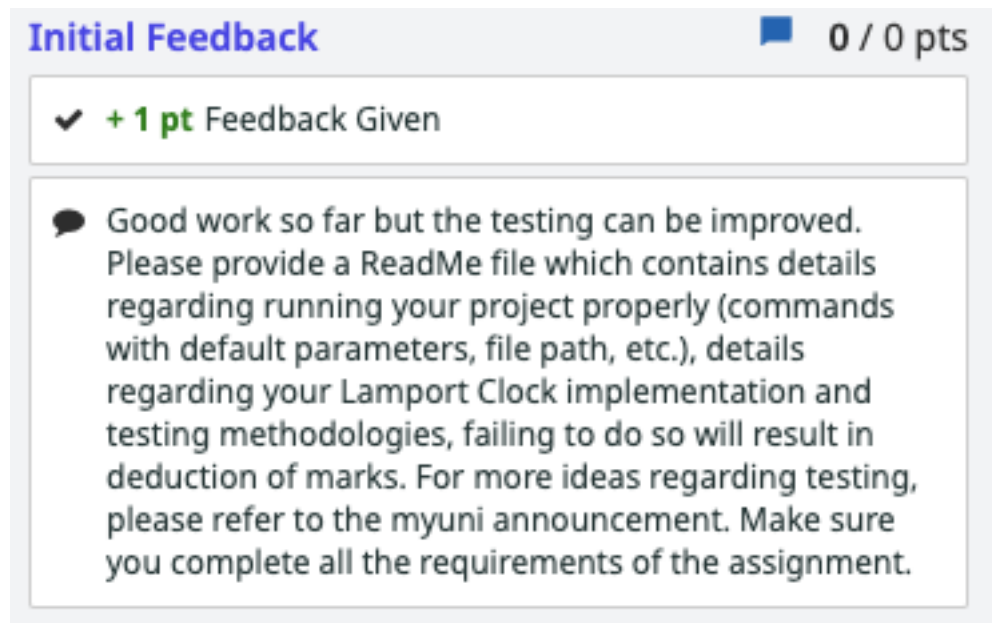# DISCUSSION OF THE FEEDBACK OF ASSIGNMENT 2

Nghia Hoang – a1814303

I. Introduction:

The feedback received after the second submission pointed out areas of improvement, particularly focusing on enhancing the testing methodology and providing a comprehensive ReadMe file. This document outlines the changes made in the project to address the feedback.

II. Discussion:

1. **Lamport Clock Synchronization:**

   Post feedback, the Lamport Clock implementation has been revised to ensure synchronized interactions between the Aggregation Server, Content Server, and GET Client. This synchronization now guarantees correct ordering of events and consistency across all components of the system.

2. **Socket Improvements in Network Handler:**

   The network handler's socket implementation has been improved to ensure robust and reliable communication between different components of the system. This improvement contributes to better error handling and fault tolerance in network communications.

3. **Enhanced Testing:**

   In response to the feedback, the testing methodology has been significantly expanded. Now the project includes 56 tests covering unit tests and integration tests. These tests ensure the correct functionality of individual components and their interactions, providing a solid validation of the system's reliability and correctness.

4. **ReadMe File Update:**

A detailed ReadMe file has been created to provide comprehensive information regarding the project setup and execution. The ReadMe includes:
- Folder structure of the project explaining the organization of different components and resources.
- Detailed explanations of all components within the system.
- Instructions on how to execute the Makefile for the Aggregation Server, Content Server, and GET Client.
- Instructions for executing the tests.
- Default parameters (host, port, input files, etc.) for running the system, along with instructions on how to specify different host and port through command line arguments.

III. Conclusion:

All the changes made post-feedback aim to improve the project's clarity, correctness, and completeness. The enhanced Lamport Clock synchronization, improved socket implementation, expanded testing methodology, and the detailed ReadMe file now provide a well-rounded and thoroughly documented project, ready for the final submission.
This revision has ensured that the project not only complies with the requirements but also adheres to good software engineering practices. The expanded testing, in particular, provides a solid foundation for verifying the system's functionality and robustness. The detailed ReadMe file ensures that the setup and execution of the project are well-documented and easily understandable.