

Change Log

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Changes

Based on the feedbacks given, I completed the remaining functional requirements of the assignment and optimized the test scripts. Detailed changes are as follows:

- Added Lamport clock on aggregation server, content server and GET client. It is incremented upon successful PUT or GET requests (LamportClock.java)
- Optimised multi-threaded implementation to allow concurrent processing of requests (RequestHandler.java)
- Added persistent connection between aggregation server and content server
- Added heartbeat mechanism on aggregation server that expires after 12 seconds
- Added feed backup and restore on failure on aggregation server
- Added single client test (test_single_client.sh)
- Updated multiple client test for concurrent access of feed (test_multiple_client.sh)
- Changed directory structure and placed expected results into ./tests/expected/

Feedback

1. Does the client communicate with the Aggregation Server?

Yes

2. Does the Content Server communicate with the Aggregation Server?

Yes

3. Does the basic control flow work?

Yes

4. Does the aggregation server order requests?

No

5. Feedback

6. Is XML parsing implemented?

Yes

7. Feedback

8. Is the Aggregation Server persistent?

No

10. Feedback

11. Is restore on failure implemented?

No

12. Feedback

13. Are Lamport clocks implemented?

No

14. Feedback

No

15. Is the heartbeat implemented on the Aggregation Server?

16. Is the heartbeat implemented on the Content Server?

Almost

17. Feedback

18. Is the system fault tolerant?

Yes

19. Improvements

Almost

20. Is testing present?

Your test for multiple clients does not test concurrent connections. If you change your run_test.sh and you launch each

GETClient in the background (like: java -cp "" :./lib/*"" ds.assignment2.GETClient > output2.txt &) you'll see your

tests failing. So try to put & to send the clients in the background to see what happens.

21. Is testing comprehensive?

Yes

22. Feedback

23. Does the code follow the code checklist?

Yes

25. Is the design of good quality?

26. What improvements need to be done to improve the design quality?

You are on the right track. Make sure you fix the issues and also to add the missing requirements and document them and their usage.