Archival LLD: **Eden Fresh**
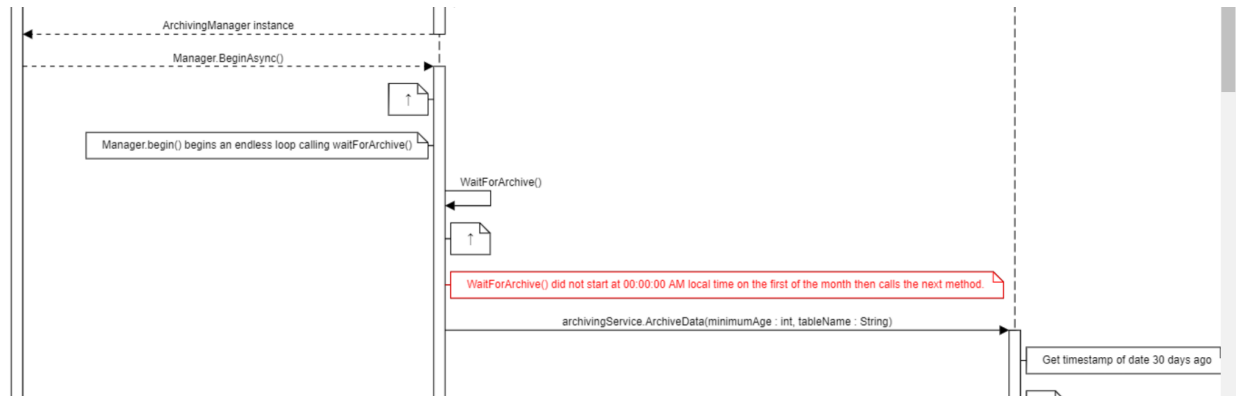
Team Web Crawlers

Alexander Dung

Devarsh Patel

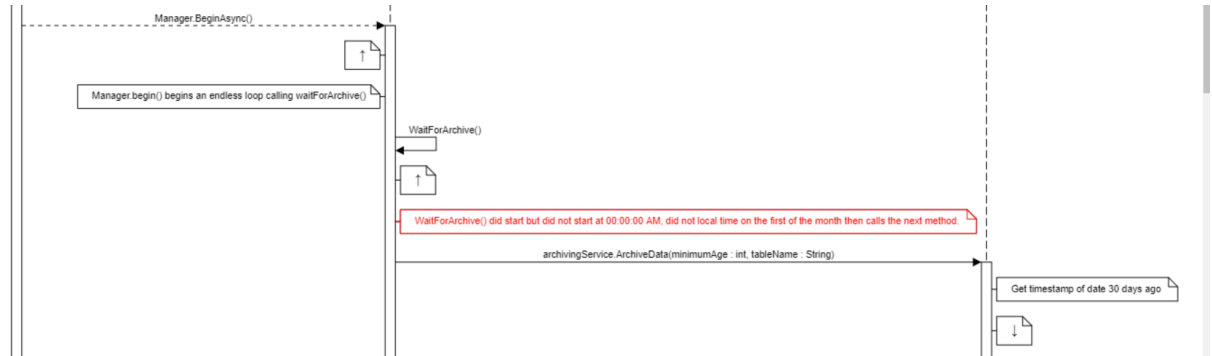Justin Calma (Team Leader)

Kayla Chu

Sze Man Tang

Submission Date: October 6, 2021

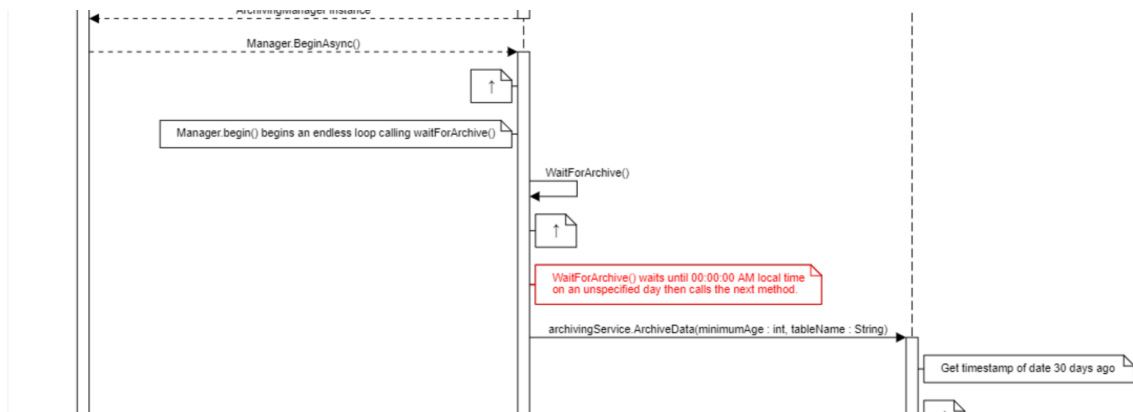# 1. Archiving Fail 1 - Did not execute at midnight

- Archival process did not start at 00:00:00 AM

- The archiving process was debugged, but did not start at a specific time. It did not start any time.

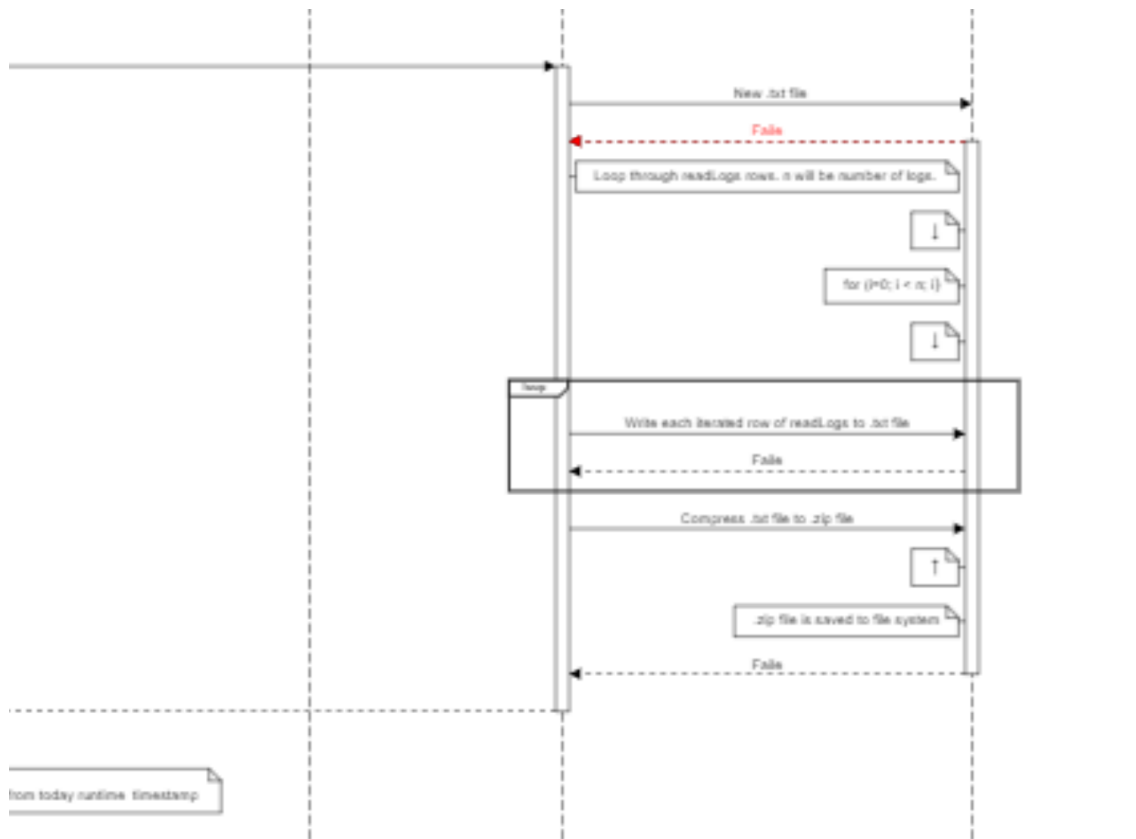# 2. Archiving Fail 2 - Executed at Not Local Midnight

- Archival process started at 00:00:00 AM, but not local time

- The Archival process started but it did not execute at midnight local time. It happened some random time. Archiving did not show any possible output it just executed with success.

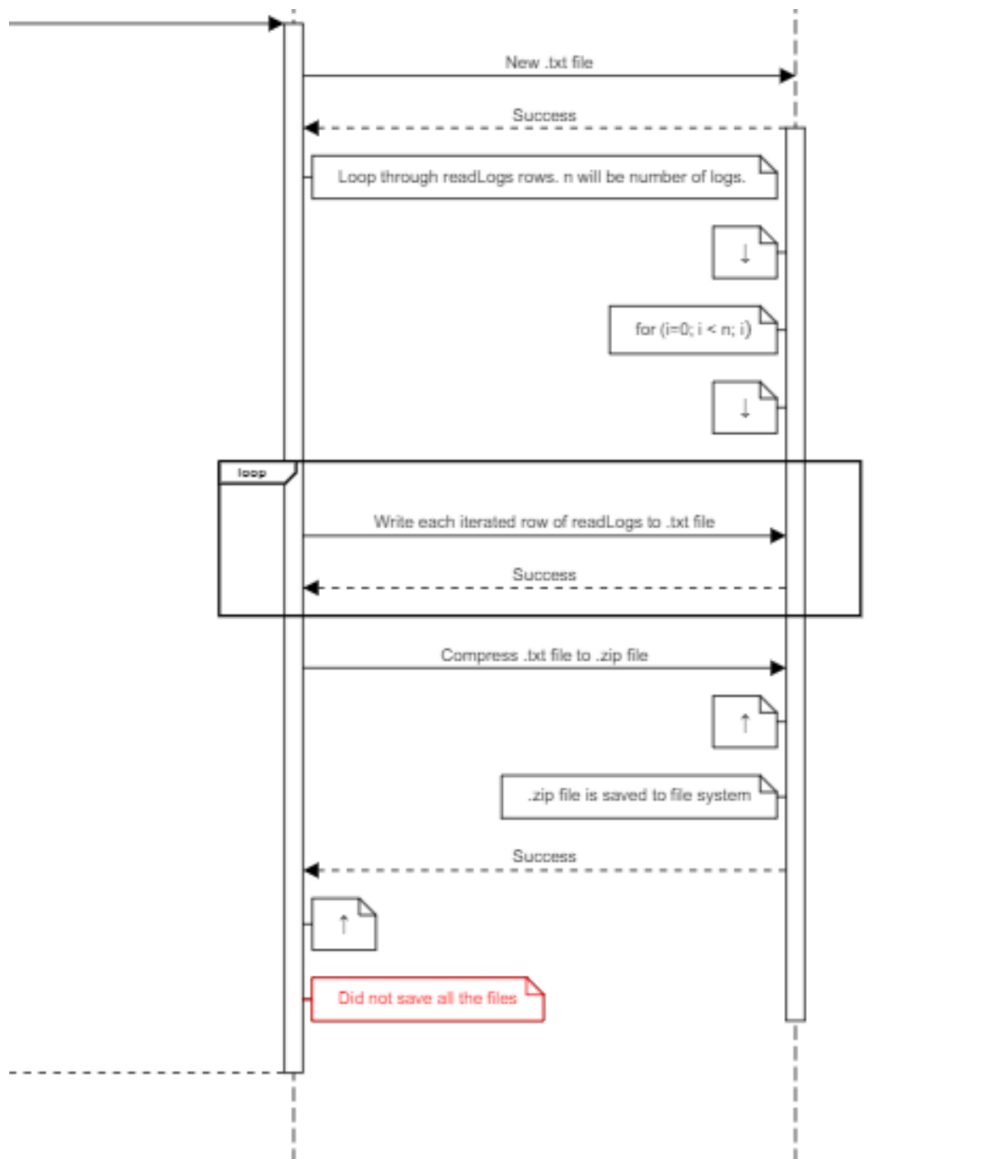# 3. Archiving Fail 3 - Execute On wrong Day

- Archival process started at 00:00:00AM (local time), but not on the 1st of the month
- The Archiving process started, but did not start exactly after 30 day. It happended some other day. This situation takes place and the archiving runs successfully on the wrong day.

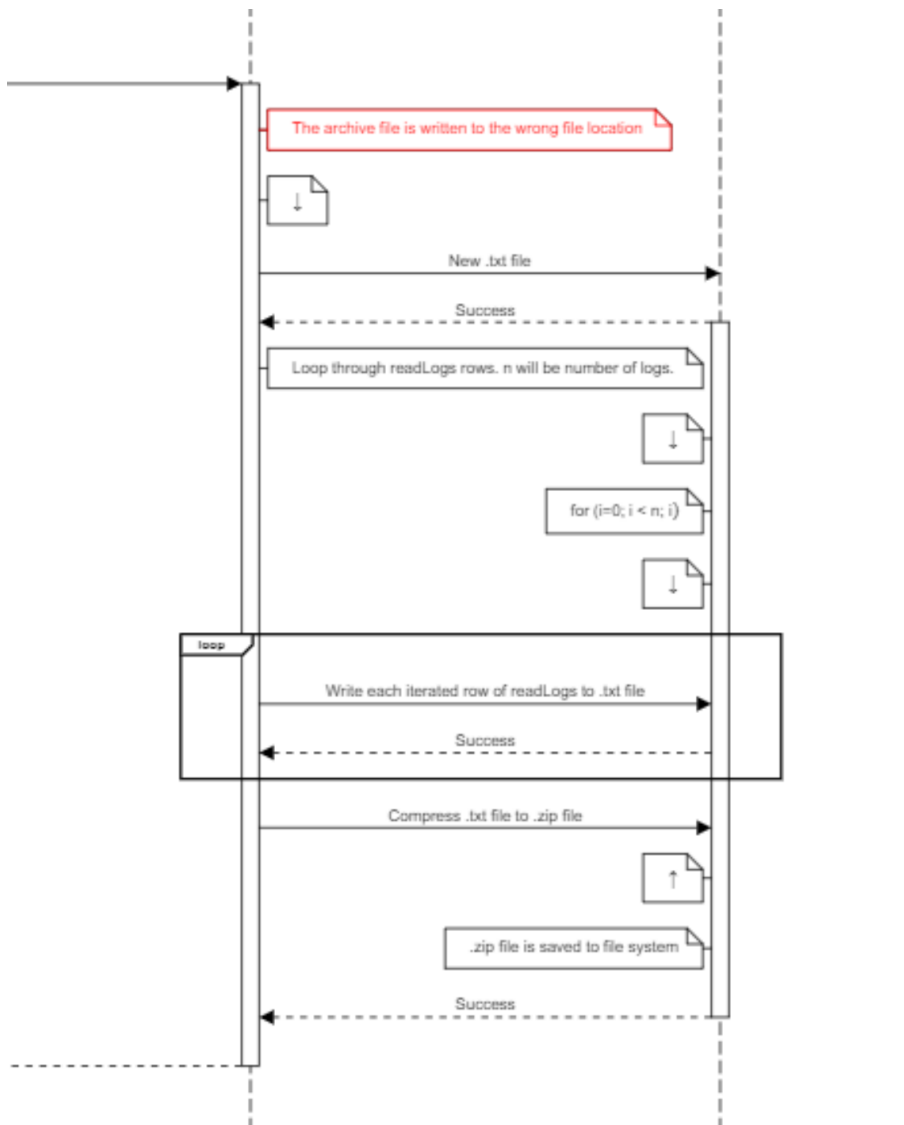## 4. Archiving Fail 4 - Did not archive any entiers

- Archival process started at 00:00:00AM (local time) on the 1st of the month, but did not archive any log entries even though there are logs older than 30 days
- Archiving takes place on local time and day. It runs perfectly but does not execute the 30 days older files entiers in the archiving process.

5. Archiving Fail 5 - Did not archive all valid entries

New .txt file

Success

Loop through readLogs rows. n will be number of logs.

↓

for (i=0; i < n; i)

↓

loop

Write each iterated row of readLogs to .txt file

Success

Compress .txt file to .zip file

↑

.zip file is saved to file system
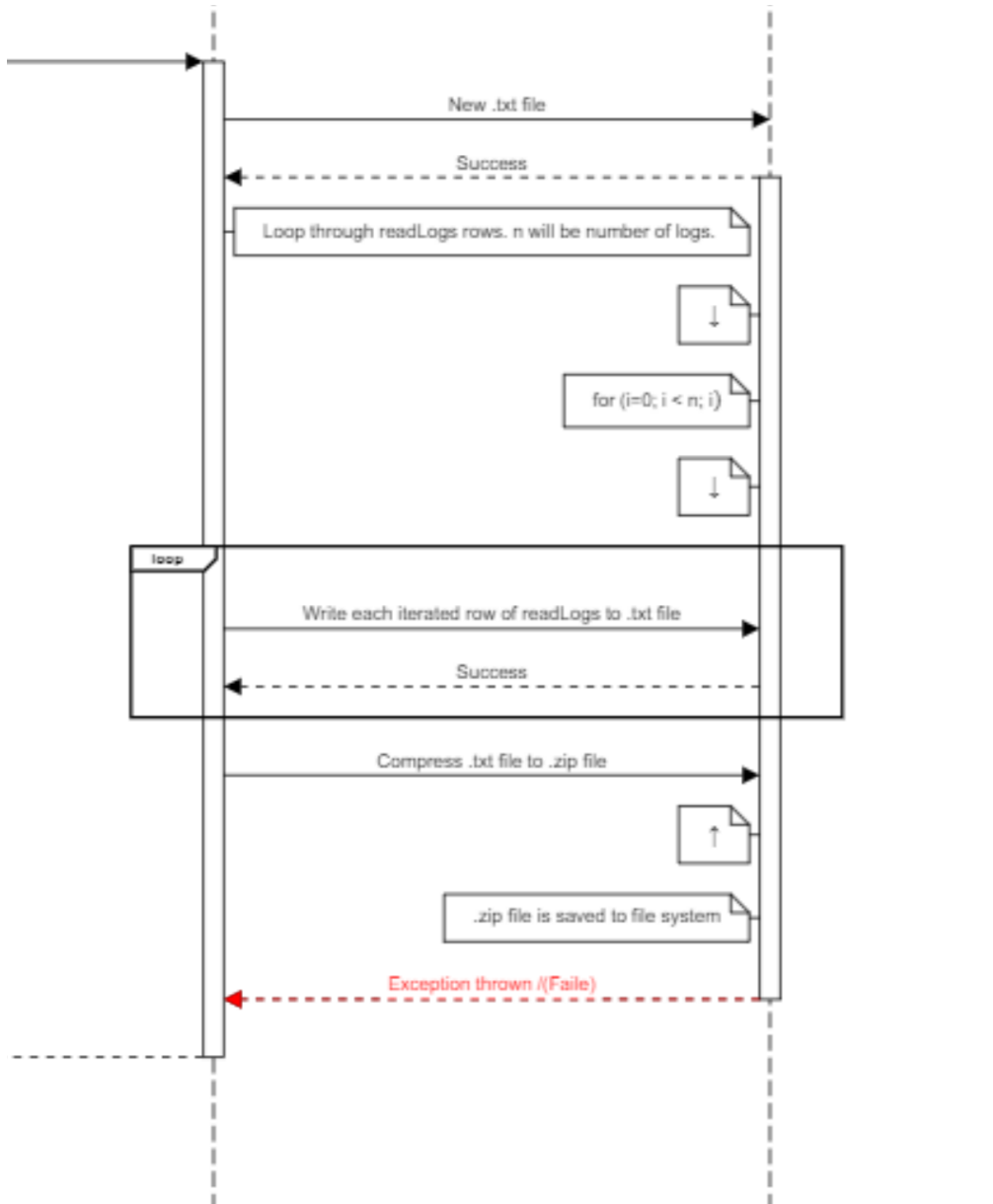
Success

↑

Did not save all the files

- Archival process started at 00:00:00AM (local time) on the 1st of the month, but did not archive all log entries older than 30 days
- Archiving takes place on local time and day. It runs perfectly but does not execute all the entries successfully. Some entries do not take place in this process. Which means few entries save successfully.

6. Archiving Fail 6 - Did not consolidate

The archive file is written to the wrong file location

New .txt file

Success

Loop through readLogs rows. n will be number of logs.

for (i=0; i < n; i)

loop

Write each iterated row of readLogs to .txt file

Success

Compress .txt file to .zip file
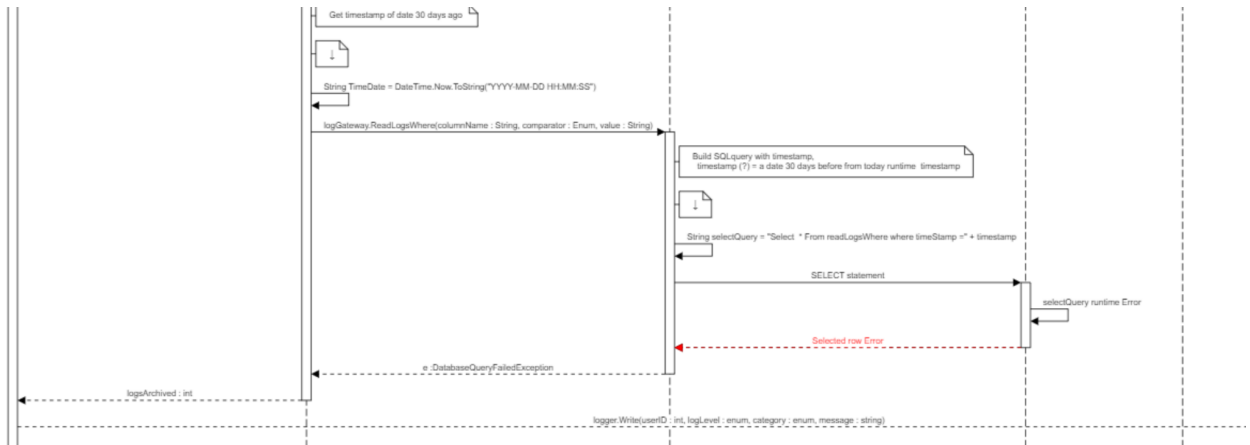
.zip file is saved to file system

Success

- Archival process started at 00:00:00AM (local time) on the 1st of the month. All log entries older than 30 days are not consolidated.
- Archiving takes place on local time and day. It runs fine but when it comes to save files it consolidates to different locations which is not described in arching code. Randomly written to wrong locations.
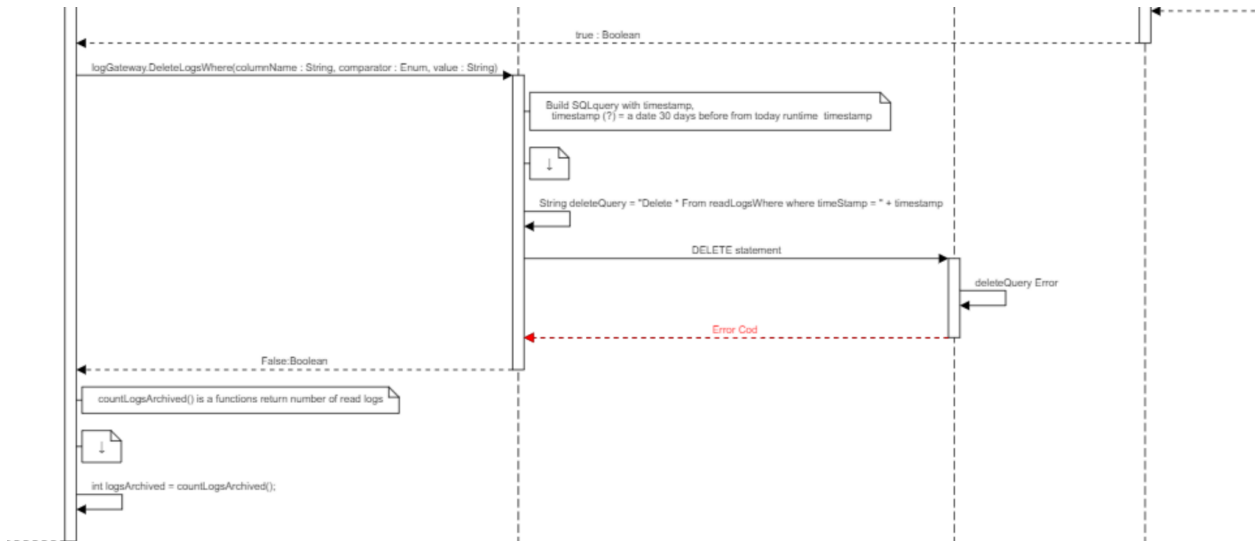
7. Archiving Fail 7 - Did not compress

- Archival process started at 00:00:00AM (local time) on the 1st of the month. All log entries older than 30 days are consolidated, but are not compressed.
- Archiving takes place on local time and day. It successfully selects the all file pass into the right location but it does not compress at the locations.
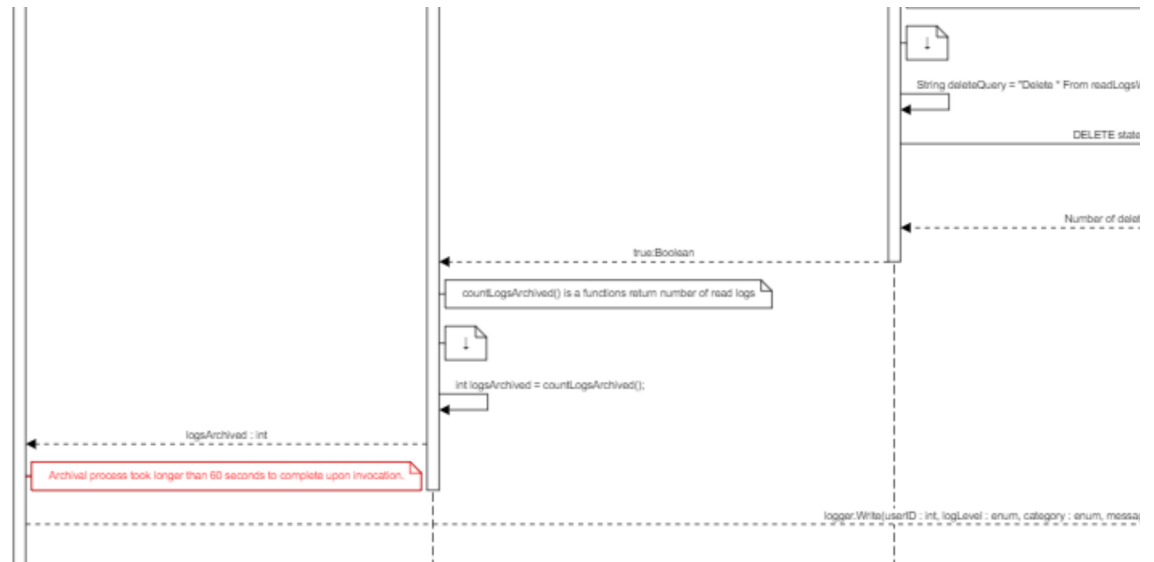
8. Archiving Fail 8 - Did not relocate

- Archival process started at 00:00:00AM (local time) on the 1st of the month. All

  log entries older than 30 days are consolidated and compressed, but is not

  relocated to another location

- Archiving takes place on local time and day. It successfully selected all the files

  When it comes to relocating and saving it did not execute and relocated at

  different locations.

9. Archiving Fail 9 - Archived logs not removed

- Archival process started at 00:00:00AM (local time) on the 1st of the month. All

  log entries older than 30 days are consolidated, compressed and are relocated to

  another location, but archived logs are not removed from the system.

- Archiving takes place on local time and day. It successfully selected all the files

  and compressed all the files. When it comes to relocating and saving it did

  execute and relocated at different locations. After relocating, it is supposed to

  delete the files from the storage it selected.

10. Archiving Fail 10 - Timeout

- Archival process took longer than 60 seconds to complete upon invocation.

- Archiving takes place on local time and day. It successfully selected all the files and compressed all the files. When it comes to relocating and saving it did execute and relocated at different locations. After relocating, it is supposed to delete the files it did. Archiving did not stop the process in limited time so it timeout. Limited time is 60 second to run.