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Before running the application

Solution as a tool is available at,

https://github.com/AKS-Code-Git/CS-TestDataGenerator/tree/master/TestDataGenerator/CS

There are three folders at above location,

1. https://github.com/AKS-Code-Git/CS-TestDataGenerator/tree/master/TestDataGenerator/CS/LA
   - This is main application which reads the log file, stores in database and update the alert flag as per difference between FINISHED and STARTED log segment.
   - This application can be run through run.bat file. Before running we need to update values of 'task.properties'. There are three properties needs to understand rest all are self-explanatory,
     a. JSON_FILE -> Location of log file which may be dynamic in log update.
     b. ALERT_THRESHOLD -> milliseconds (difference of timestamp between FINISHED and STARTED log) to decide if alert need to be flagged.
     c. PAUSE -> wait time between two reads of log file. Application will pick the change if occurred during this time.
   - Once all the properties are set as per need, we can run the application through command prompt by running run.bat file. Few points to be noted before running run.bat,
     o Java.exe must be reachable at 'LA' directory
     o Jdk-11.0.10 (JavaSE-1.8), so expected to have same JRE on machine.
2. https://github.com/AKS-Code-Git/CS-TestDataGenerator/tree/master/TestDataGenerator/CS/TDG
   - This is test data generator as per configuration. This application can be executed through run.bat file available within the folder.
   - Before running this application we need to set values of properties in 'test.properties' . Explanation of properties is as below,
     a. JSON_FILE -> data file which will be used by main application.
     b. PAUSE -> duration after which data file will be appended with new data.
     c. LOOP -> number of log segments to be generated.
3. https://github.com/AKS-Code-Git/CS-TestDataGenerator/tree/master/TestDataGenerator/CS/temp
   - This folder contains sample log file which will be consumed by main application.

Running the application

a. Download 'https://github.com/AKS-Code-Git/CS-TestDataGenerator/tree/master/TestDataGenerator/CS' on your machine.
b. Keep same value of JSON_FILE for both the application i.e. main application and data generator application.
c. Open command prompt and go to respective applications.
d. Run 'run.bat' of both the applications i.e. data generator and main application.
e. Main application will read log data dynamically even if log file is continuously changing.

After running the application

- 'logs_<time in ms>.csv' contains updated log with alert status. 'alert' is updated for 'STARTED' and 'FINISHED' log segment. There will be many such files, each file is generated after finding new log segments in log file.
- 'track.properties' contains value of last line read by application from log file.
  o Initially value of **lastread** must be -1 for new file.

- o If you want to stop main application, make **lastread**=-2 and save the file. Application will stop by its own.
- 'Task_yyyymmdd-hhMMss.log' is log file of main application.

Code Base

- Code of main application is located at, https://github.com/AKS-Code-Git/Credit-Suisse .
- Code of dummy data generator is located at, https://github.com/AKS-Code-Git/CS-TestDataGenerator/tree/master/TestDataGenerator
- HSQLDB (http://hsqldb.org/) is considered with respect to DB operation or need.