QA automation case study

Description

As a QA engineer you have a log file with logs from different microservices. To get an overview of overall system quality, you decided to extract the summary information about each service.

Data file

The test.log file contains information about entering in and returning from different services, in the following format:

2015-10-28T12:24:33,903 TRACE [OperImpl] entry with (addClient:97900)

2015-10-28T12:24:34,002 TRACE [OperImpl] entry with (addClient:97900)

where

- addClient - service name
- 97900 - request id (unique)
- 2015-10-28T12:24:33,903 - request entry time
- 2015-10-28T12:24:33,903 - response exit time

As you know the entry and exit times for request #97900 to addClient service, you can find out that the time of this request execution took 0.009 seconds.

Your task

Implement a script, utility or application on using any programming language to extract the following information about each service:

1. Name of service
2. Number of requests made to the service
3. Maximum time of request execution

Hints

1. Using Java or Python will be a plus
2. Try to be platform independent, use Docker
3. Please share your project on GitHub and send us the link
4. Setting up the GitHub flow will be a plus