

Design Document: Command line tool to query server logs

Programming language used: Java

External libraries: Log4j

IDE: Eclipse

Developer efforts: 2 days

The tool consists of 2 simple java projects:

1: LogGenerator

- The LogGenerator project contains a Generator.java class which randomly generates logs for 1000 servers
- Random class from java utils library to generate random ip addresses and cpu times
- It also contains log4j.properties file which is used to configure log4j
- The Generator class contains 4 methods:
 - void logGenerator(String filePath)
 - static String generateRandomIP()
 - static int generateRandomCpuTime()
 - private void updateLog4jConfiguration(String logFile)

2: Query

- The Query project contains Query.java class which queries the log file on the specified path of log file
- The Query.java contains 1 method:
 - void readLogs(String[] commandLineArguments)

