종합설계프로젝트2 TEAM3

Log Analysis of IT System based on NLP

자연어 처리(NLP) 기반 IT 시스템 로그 분석

IMentor I 정명훈 이사, Google Korea

IPresenter I 옥명주

ITeam Memberl 김보근 김나형 김다혜 옥명주 이현지





- 1. Project Overview
 - Necessity of Project promotion
 - Overview

- 2. Project Progress
 - Progress & Issue
 - Java Thread Dump Analysis
 - Write a Paper

3. Project Schedule

- Meeting & Schedule Management
- Gantt Chart

01

Project Overview

- Necessity of Project promotion
- Overview

Project Overview - Necessity of Project Promotion







```
"\"pool-1-thread-1\" #113 prio=5 os_prio=0 tid=0x00007fc55c1b2000 nid=0x64c2 runnable [0x00007fc534686000]",

" java.lang.Thread.State: RUNNABLE",

" at java.net.PlainDatagramSocketImpl.receive0(Native Method)",

" - locked <0x000000001c90308> (a java.net.PlainDatagramSocketImpl)",

" at java.net.AbstractPlainDatagramSocketImpl.receive(AbstractPlainDatagramSocketImpl.java:143)",

" - locked <0x00000000c1c90308> (a java.net.PlainDatagramSocketImpl)",

" at java.net.DatagramSocket.receive(DatagramSocket.java:812)",

" - locked <0x00000000c13c19b8> (a java.net.DatagramPacket)",

" - locked <0x00000000c1c902b8> (a java.net.MulticastSocket)",

" at org.jboss.modcluster.advertise.impl.AdvertiseListenerImpl$AdvertiseListenerWorker.run(AdvertiseListenerImpl.java:354)",

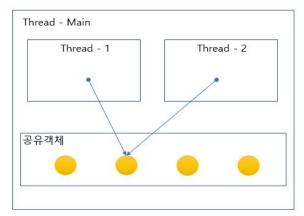
" at java.lang.Thread.run(Thread.java:748)",

" Locked ownable synchronizers:",

" - None",
```

01_1

Project Overview - Overview





Data collection and processing











Service Application

02

Project Progress

- Issue
- Demo video

02_1 Issue

N	Task	담당자	상태	시작일	완료일	2022년 3월			2022년 4월			2022년 5월			2022년 6월		
No						2주	3주	4주	1주	2주	3주	4주	1주	2주	3주	4주	1주
1	주제 선정 및 역할 분담	공동	Doing	03월 07일	03월 14일												
2	계획서 작성	공동	Doing	03월 07일	03월 18일												
데이터 관련																	
3	IT 시스템 로그 데이터 선정	공동	to Do	03월 14일	03월 20일												
4	데이터 수집	김다혜, 이현지, 옥명주	to Do	03월 20일	03월 25일												
-	테이터 기교	기내고 기다청	to Do	0281 2601	이사의 이야이		1							!			
		머신러닝	v.	7	v .												
6	모델 개발(AutoML)	김보근, 김나형	to Do	04월 09일	04월 22일												
7	모델 개발(BERT)	김다혜, 이현지, 옥명주	to Do	04월 09일	04월 22일					_							
8	논문 작성	공동	to Do	04월 23일	05월 12일												
		<u> </u>															
9	UI / UX 설계 및 기획	김다혜, 옥명주	to Do	05월 05일	05월 12일												
10	웹 애플리케이션 개발	공동	to Do	05월 12일	05월 26일												
11	Testing 및 수정	공동	to Do	05월 26일	06월 02일												

Issue



No labeling



No more data



No model testing

02_1

Issue: No labeling

	점프 분석 정	리 ver1.1 ☆ ⓑ ⓒ	was	spring	패턴	개수
E	파일 수정 보	· (no	no	quartz-1	33
	72 10 1		jboss	no	SocketInputStream-1	22
h	ი ~ 름 쿠 1	00% ▼ \$ % .000 123▼ 기본값(Ari ▼ 10 ▼ B I S <u>A</u> ❖.	tomcat + coyote	no	coyote-1	27
F2			jgroups	no	plainsocket-jgroups	18
	А	В	jboss	no	jboss-3	13
1	패턴명	패턴예시	coyote + catalina + tomcat + jasper + jboss	yes	plainsocket-jboss	12
		"\"Thread-21\" prio=10 tid=0x00007fdebe867000 nid=0x5e56 in Object.wait() [0x0000 " java.lang.Thread.State: TIMED WAITING (on object monitor)".	no	no	quartz-1	22
		 at java.lang.Object.wait(Native Method)", - waiting on <0x000000788c28d10> (a java.lang.Object)", at com.arjuna.ats.internal.arjuna.recovery.PeriodicRecovery.doPeriodicRecovery. at com.arjuna.ats.internal.arjuna.recovery.PeriodicRecovery.run(PeriodicRecovery locked <0x0000000788c28d10> (a java.lang.Object)", Locked ownable synchronizers:", 	tomcat	no	coyote-1	161
			tomcat,jboss?	yes	jdbc.driver-1	11
2			tomcat, jboss?	yes	jdbc.driver-3	6
			tomcat, jboss?	yes	jdbc.driver-4	7
			undertow, wildfly	yes	egov-1	149
	arjuna-1	" - None",	jboss	no	jboss-1	138
		at java.net.PlainSocketImpl.socketAccept(Native Method)", at java.net.AbstractPlainSocketImpl.accept(AbstractPlainSocketImpl.java:398)",	undertow, jasper	yes	spring-1	90
			wildfly	yes	wildfly-2	127
3			jboss	no	jboss-2	21
	" at org.jgroups.protocols.FD SOCK\$ServerSocketHandler.run(FD SOCK.java:1048		wildfly	yes	wildfly-3	28
			wildfly	no	wildfly-1	7
	"http-10.127.12.79:8080-Acceptor-0\"" daemon prio=10 tid=0x00007f48c41a5800 nid=0x178		no	no	concurrent-1	6
,		"" java.lang.Thread.State: RUNNABLE""; at java.net.PlainSocketImpl.socketAccept(Native Method)"".	wildfly	no	wildfly-1	7
		"" at java.net.AbstractPlainSocketImpl.accept(AbstractPlainSocketImpl.java:398)"",	jboss	no	jboss-1	13
4		"" at java.net.ServerSocket.implAccept(ServerSocket.java:530)"", "" at java.net.ServerSocket.accept(ServerSocket.java:498)"",	wildfly	yes	wildfly-1	30
	plainsocket-tomcat	at org.apache.tomcat.util.net.DefaultServerSocketFactory.acceptSocket(DefaultS: at org.apache.tomcat.util.net.JloEndpoint\$Acceptor.run(JloEndpoint.java:312)"", at java.lang.Thread.run(Thread.java:748)"	erverSocketFactory.java net.PlainSocketImpl tomcat			

02_1

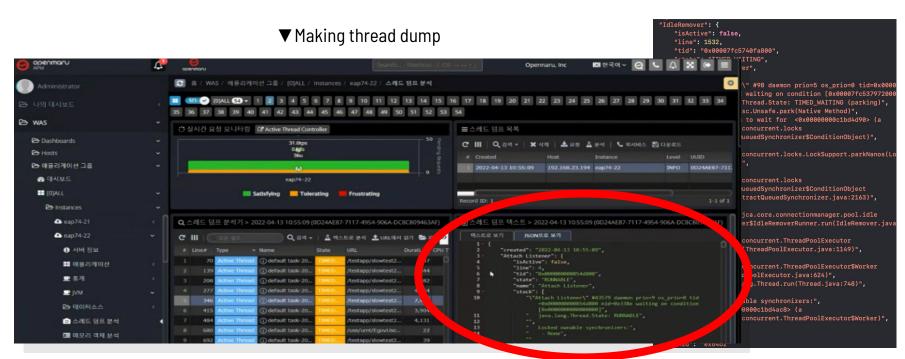
Issue: No labeling

	A	В	Е
1	file	stack	pattern
21	LEBS_MY	"stateTransferExecutor-threadp20-t27" #380 daemon prio=5 os_prio=0 tid=0x0000000004d23000 nid=0x6cba waiting on condition [0x00007f7b9bceb000] java,lang,Thread,State: WAITING (parking) at sun,misc,Unsafe,park(Native Method) at java,util,concurrent,locks,LockSupport,park(LockSupport,java:175) at java,util,concurrent,SynchronousQueue\$TransferStack,awaitFulfill(SynchronousQueue,java:458) at java,util,concurrent,SynchronousQueue\$TransferStack,tansfer(SynchronousQueue,java:362) at java,util,concurrent,SynchronousQueue,StransferStack,transfer(SynchronousQueue,java:362) at java,util,concurrent,TynchronousQueue,take(SynchronousQueue,java:924) at java,util,concurrent,ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)	idle
22	2_EBS_MY	"transport-thread—p14-t7" #379 daemon prio=5 os_prio=0 tid=0x00000000003635000 nid=0x6bd0 waiting on condition [0x000077ba1f50000] java,lang,Thread,State: WAITING (parking) at sun.misc.Unsafe.park(Native Method) at java,util,concurrent,locks,LockSupport,park(LockSupport,java:175) at java,util,concurrent,locks,AbstractQueuedSynchronizer\$ConditionObject,await(AbstractQueuedSynchronizer,java:2039) at java,util,concurrent,LinkedBlockingQueue,take(LinkedBlockingQueue,java:442) at java util_concurrent ThreadPoolExecutor_getTask(ThreadPoolExecutor_java:1074)	wildfly-
23	3_EBS_MY	at java, util, concurrent, locks, AbstractQueuedSynchronizer\$ConditionObject, await(AbstractQueuedSynchronizer, java: 2039) at java, util, concurrent, LinkedBlockingQueue, take(LinkedBlockingQueue, java: 442)	wildfly-
24	LEBS_MY	at java, util, concurrent, ThreadPoolExecutor, getTask(ThreadPoolExecutor, java:1074) "Connection, Receiver [172,17,22,100:9171 - 172,17,22,100:7800] -30, web, ebssw11-22-100-1" #377 prio=5 os_prio=0 tid=0x00000000a6c3000 nid=0x6bc0 runnable [0x00007f7b9bd6d000] java, jang, Thread, State: RUNNABLE at java, net, SocketInputStream, socketRead0(Native Method) at java, net, SocketInputStream, socketRead(SocketInputStream, java:116) at java, net, SocketInputStream, read(SocketInputStream, java:171) at java, net, SocketInputStream, read(SocketInputStream, java:141) at java, jo, BufferedInputStream, fill(BufferedInputStream, java:246)	jboss-

idle	2191
NaN	1216
tomcat-endpoint	567
khan	560
wildfly-4	441
empty	389
egov-1	175
coyote-http	160
jboss-2	154
daekyo-1	153
nio-1	144
wildfly-1	108
infinispan-1	99
wildfly-3	94
quartz	90
daekyo-2	80
timer	80
mysql-1	79
ibatis-1	67
spring—1	67
jboss-1	66

▲ pattern type

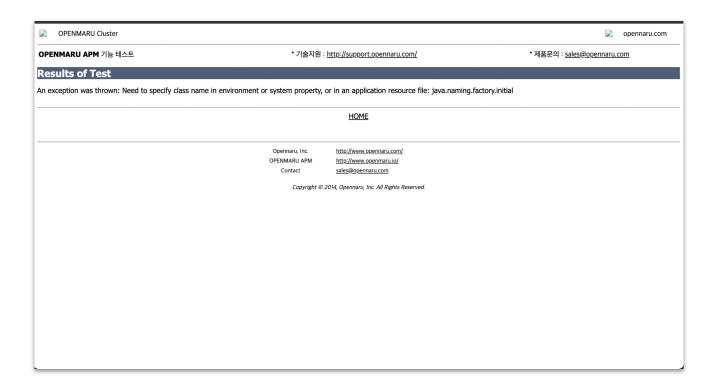
Issue: Model Test Server



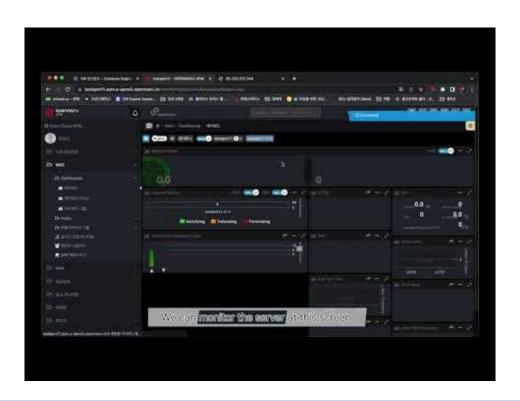
Server monitoring system "Opennaru"

02_1

Issue: Model Test Server



02_2 Demo video

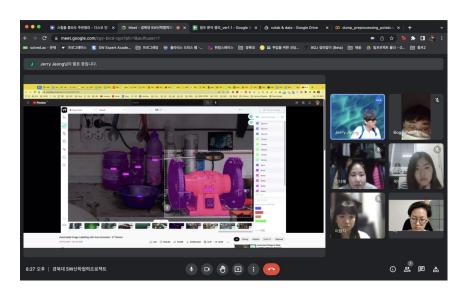


03

Project Schedule

- Meeting & Schedule Management
- Gantt Chart

Project Schedule & Method - Meeting & Schedule Management





Github Google Meet Trello

03_2

Project Schedule & Method - Gantt Chart



Project Schedule & Method - Gantt Chart

1. Text Labeling



2. Model



3. Data API



4. Test Server



Thank you for your attention!

From. TEAM3