

Element Technology – Server Resource Monitoring

Summary

Server Resource Monitoring provides a function to monitor status of resources including memory of resource servers such as Web server, WAS server and DB server.

Description

- **Server Resource Monitoring** includes the following functions: registration, inquiry and list inquiry of the server resources monitoring.

① Server Resource Monitoring List Inquiry: It is to inquire the server resource monitoring information in the order of the latest registration, and to reflect the result on screen.

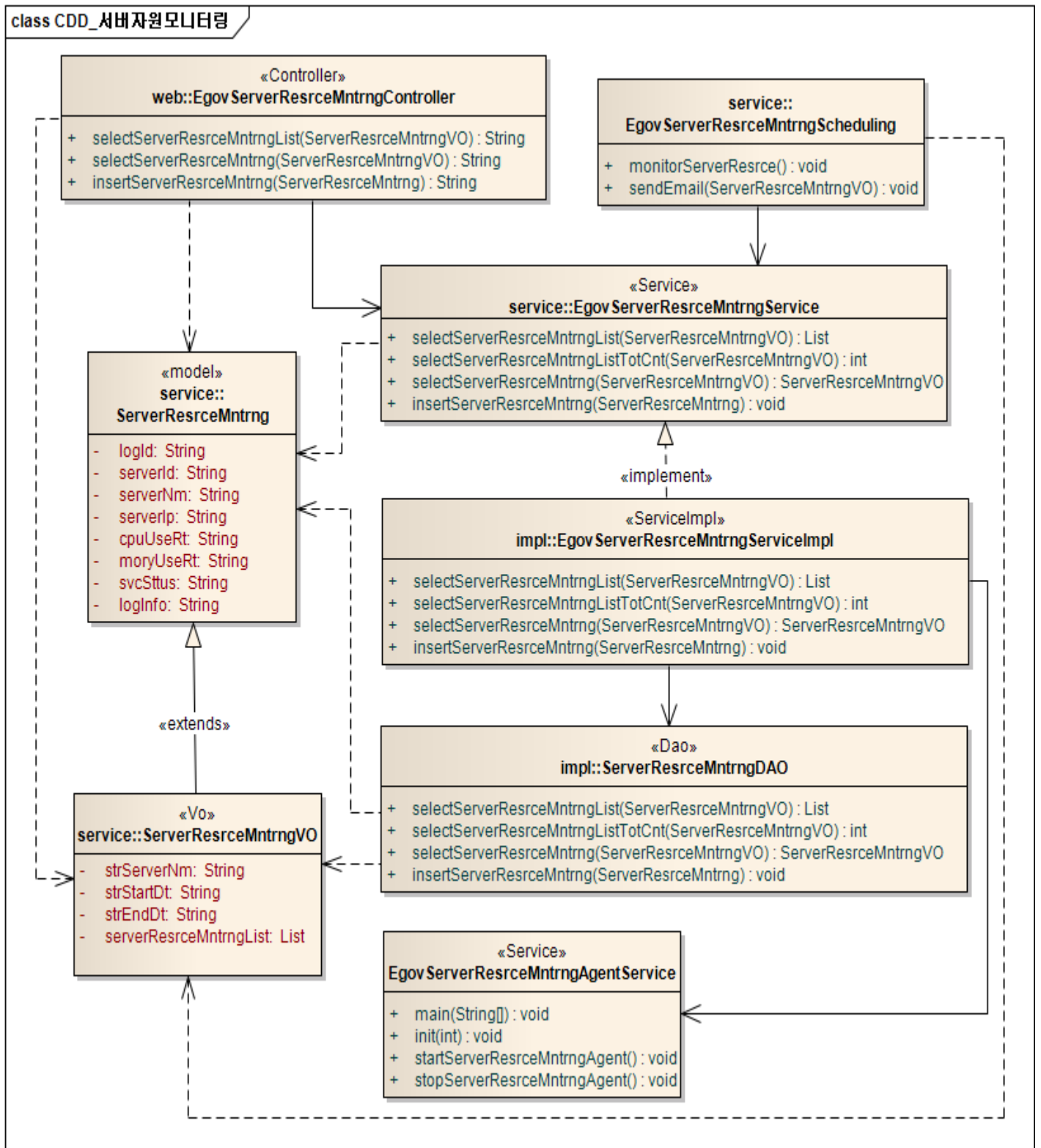
② Detail Inquiry of the Server Resource Monitoring: It is to display the detailed information of the server resource monitoring selected from a server resource monitoring list.

③ Register Server Resource Monitoring Result: Using a scheduler to register the server resource monitoring result(log) information in a system.

Related Source

Type	Corresponding Sources	Remarks
Controller	egovframework.com.utl.sys.srm.web.EgovServerResrceMntrngController.java	Controller class for the server resource monitoring
Service	egovframework.com.utl.sys.srm.service.EgovServerResrceMntrngService.java	Service interface for the server resource monitoring
ServiceImpl	egovframework.com.utl.sys.srm.service.impl.EgovServerResrceMntrngServiceImpl.java	Service implementation class for the server resource monitoring
DAO	egovframework.com.utl.sys.srm.service.impl.ServerResrceMntrngDAO.java	Data processing for the server resource monitoring
Model	egovframework.com.utl.sys.srm.service.ServerResrceMntrng.java	Model class for the server resource monitoring
VO	egovframework.com.utl.sys.srm.service.ServerResrceMntrngVO.java	VO class for the server resource monitoring
기타	egovframework.com.utl.sys.srm.service.EgovServerResrceMntrngScheduling.java	Class for scheduling of the server resource monitoring
JSP	/WEB-INF/jsp/egovframework/utl/sys/srm/EgovServerResrceMntrngList.jsp	jsp page for the server resource monitoring list inquiry
JSP	/WEB-INF/jsp/egovframework/utl/sys/srm/EgovServerResrceMntrngDetail.jsp	jsp page for the detail inquiry of the server resource monitoring
XML	/egovframework/sqlmap/com/utl/sys/srm/EgovServerResrceMntrng_SQL_*.xml	Server resource monitoring QUERY XML

Class Diagram



Related Tables

Table Name	Table Name(English)	Remarks
Server Resource Log Information	COMTNSERVERRESRCELOGINFO	It is to manage the resource status log, including memory of server resources such as Web server, WAS server and DB server.

Scheduler Registration

- The following should be registered to the **context-scheduling.xml** file so as to register a server resource monitoring scheduler.

```

<!--server resource monitoring - - >
<bean id="serverResrceMntrng"
    class="org.springframework.scheduling.quartz.MethodInvokingJobDetailFactoryBean">
    <property name="targetObject" ref="egovServerResrceMntrngScheduling" />
    <property name="targetMethod" value="monitorServerResrce" />
    <property name="concurrent" value="false" />
</bean>

<!--server resource monitoring trigger - - >
<bean id="serverResrceMntrngTrigger"
    class="org.springframework.scheduling.quartz.SimpleTriggerBean">
    <property name="jobDetail" ref="serverResrceMntrng" />
    <property name="startDelay" value="60000" />
    <property name="repeatInterval" value="600000" />
</bean>
'startDelay' sets the time delayed in seconds after the server starts. (ms unit: currently, 1 min)
'repeatInterval' sets the intervals of execution in seconds. (ms unit: currently, 10 min)
<!--monitoring scheduler - - >
<bean id="mnrngScheduler" class="org.springframework.scheduling.quartz.SchedulerFactoryBean">
    <property name="triggers">
        <list>
            <ref bean="serverResrceMntrngTrigger" />
        </list>
    </property>
</bean>

```

Related Screens & Action Manuals

Server Resource Monitoring Target List Inquiry

Action	URL	Controller method	QueryID
Inquire	/utl/sys/srm/selectMntrngServerList.do	selectMntrngServerList	"serverResrceMntrngDAO.selectMntrngServerList"
			"serverResrceMntrngDAO.selectMntrngServerListTotCnt"

There are 10 items inquired per page on a server resource monitoring list, with 10 pages in total. Search option is the **Server H/W Name**.

 서버자원모니터링 대상목록 서버H/W 명 :

서버H/W ID	서버H/W 명	서버H/W IP	담당자 E-Mail
SVE_0000000000000036	DELL PE2950	192,168,200,21	leemj@hit.co.kr
SVE_0000000000000037	HP 380G6	192,168,100,55	leemj@hit.co.kr

Inquiry: The server H/W list that is subordinated in System Management > Server Information Management is displayed on screen which is the target for server resource monitoring.

Log: Select the **Log button** to inquire log information of the server resource monitoring, and to move to the **Server Resource Monitoring Log List** screen.

Detail Inquiry of the Server Resource Monitoring Log

Action	URL	Controller method	QueryID
Inquire	/utl/sys/srm/selectServerResrc eMntrngList.do	selectServerResrcMn trngList	“serverResrcMntrngDAO.selectServerResrcM ntrngList”
			“serverResrcMntrngDAO.selectServerResrcM ntrngListTotCnt”

There are 10 items inquired per page on a server resource monitoring list, with 10 pages in total. Search options are the server H/W name and the period.

서버자원모니터링 로그목록
 서버H/W 명 :
 기간 :

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서버H/W 명	서버H/W IP	CPU사용률	메모리사용률	서비스상태	생성일시
HP 380G6	192,168,100,55	7,24%	52,71%	정상	2010-11-15 18:03:54
DELL PE2950	192,168,200,21	45,70%	12,00%	정상	2010-11-15 18:03:54
HP 380G6	192,168,100,55	26,86%	52,67%	정상	2010-11-15 18:01:30
DELL PE2950	192,168,200,21	45,80%	12,00%	정상	2010-11-15 18:01:28
HP 380G6	192,168,100,55	44,69%	52,44%	정상	2010-11-15 17:53:54
DELL PE2950	192,168,200,21	45,80%	12,00%	정상	2010-11-15 17:53:54
HP 380G6	192,168,100,55	25,94%	52,41%	정상	2010-11-15 17:51:32
DELL PE2950	192,168,200,21	45,90%	12,00%	정상	2010-11-15 17:51:29
HP 380G6	192,168,100,55	12,35%	52,61%	정상	2010-11-15 17:43:54
DELL PE2950	192,168,200,21	46,00%	12,00%	정상	2010-11-15 17:43:54

Inquiry: It is to inquire the registered server resource monitoring log list.

Detail Inquiry: Select a **Server H/W Name** to inquire detailed information of the target, and to move to the **Detail Inquiry of the Server Resource Monitoring** screen.

List: Select the **List button** to move to the server resource monitoring target list screen.

Detail Inquiry of the Server Resource Monitoring Log

Action	URL	Controller method	QueryID
Inquire	/utl/sys/srm/getServerResrceMntrng.do	selectServerResrceMntrng	“serverResrceMntrngDAO.selectServerResrceMntrng”

It displays detailed information of the server resource monitoring log selected from a server resource monitoring log list.

☞ 서버자원모니터링 상세조회

로그ID	LOG_0000000000031979
서버H/W 명	HP 380G6
서버H/W IP	192,168,100,55
CPU사용률	7,24
메모리사용률	52,71
서비스상태	정상
생성일시	2010-11-15 18:03:54

목록

List: It is to move to the server resource monitoring log list inquiry screen.
