Element Technology -- HTTP Service Monitoring

Summary

HTTP Service Monitoring provides functions to perform periodic inspections of services (Web server and WAS inspections) to check if they are running without errors and to notify administrators with any relevant problems.

Description

- **HTTP Service Monitoring** is intended to register the HTTP service monitoring status, and includes the following functions: registration, update, deletion, inquiry and list inquiry of the HTTP service monitoring.

① HTTP Service Monitoring List Inquiry: Using the function to inquire the defined information in the order of the latest registration, and the search result is reflected on screen.
② Register HTTP Service Monitoring: It is to register the HTTP service monitoring information and to inquire the registration result.
③ Update HTTP Service Monitoring: It is to update the registered HTTP service monitoring info items.
④ Delete HTTP Service Monitoring: It is to delete the registered HTTP service monitoring information.
⑤ Inquire HTTP Service Monitoring: It is to inquire the registered HTTP service monitoring information.
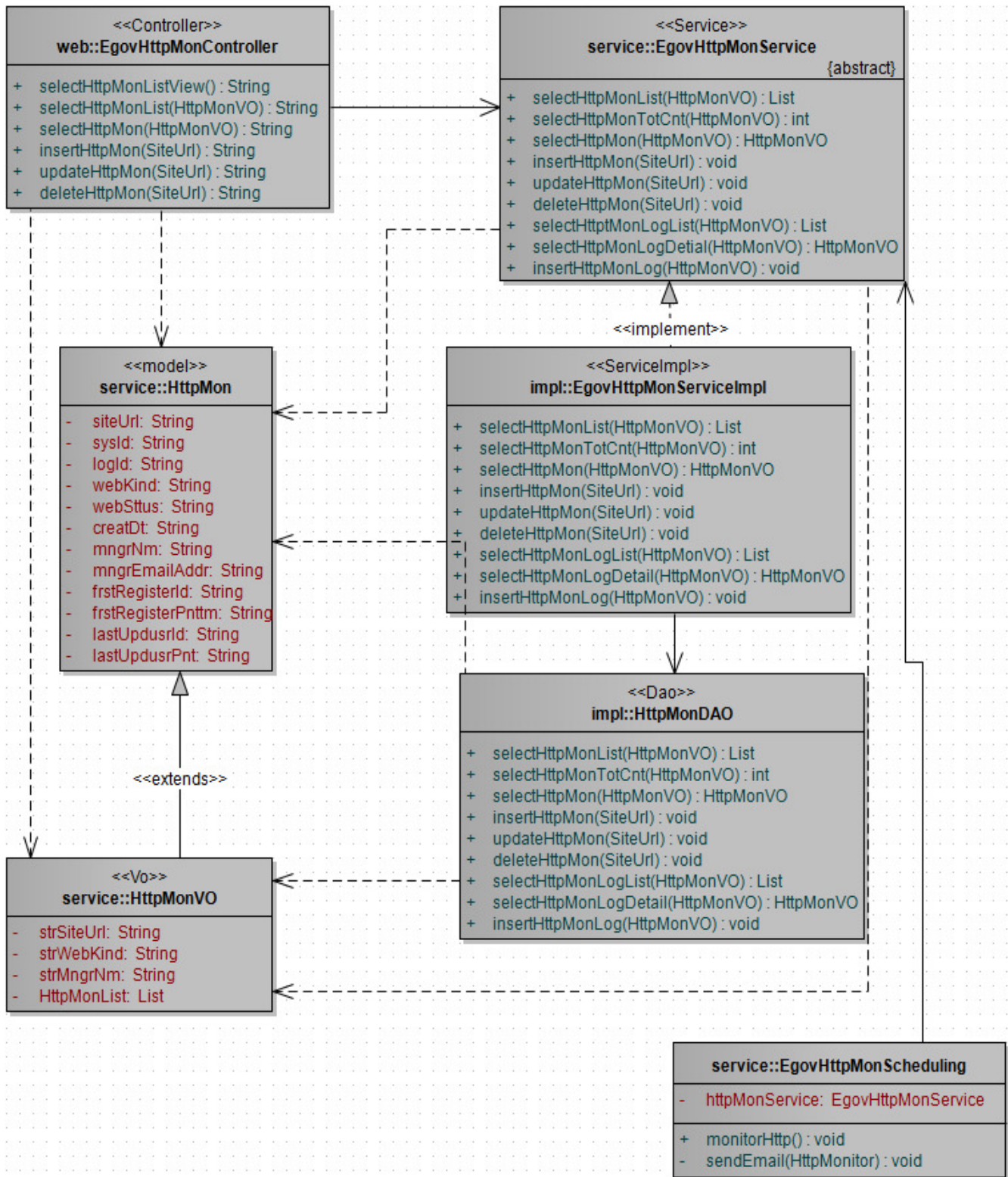⑥ Inquire HTTP Service Monitoring Log List: Using the HTTP service monitoring log to inquire the defined information in the order of the latest registration, and the search result is reflected on screen.
⑦ HTTP Service Monitoring Query: It is to inquire the registered HTTP service monitoring log information.

Related Sources

Type	Corresponding Sources	Remarks
Controller	egovframework.com.utl.sys.htm.web.EgovHttpMonController.java	Controller class for the HTTP service monitoring
Service	egovframework.com.utl.sys.htm.service.EgovHttpMonService.java	Service interface for the HTTP service monitoring
ServiceImpl	egovframework.com.utl.sys.htm.service.impl.EgovHttpMonServiceImpl.java	Service implementation class for the HTTP service monitoring
DAO	egovframework.com.utl.sys.htm.service.impl.HttpMonDAO.java	Data processing for the HTTP service monitoring
Model	egovframework.com.utl.sys.htm.service.HttpMon.java	Model class for the HTTP service monitoring
Model	egovframework.com.utl.sys.htm.service.HttpMonLog.java	Model class for the HTTP service monitoring log info
JSP	/WEB-INF/jsp/egovframework/utl/sys/htm/EgovHttpMonList.jsp	jsp page for the HTTP service monitoring list inquiry
JSP	/WEB-INF/jsp/egovframework/utl/sys/htm/EgovHttpMonRegist.jsp	jsp page for register the HTTP service monitoring
JSP	/WEB-INF/jsp/egovframework/utl/sys/htm/EgovHttpMonUpdt.jsp	jsp page for update the HTTP service monitoring
JSP	/WEB-INF/jsp/egovframework/utl/sys/htm/EgovHttpMonDetail.jsp	jsp page for inquire the registered HTTP service monitoring
JSP	/WEB-INF/jsp/egovframework/utl/sys/htm/EgovHttpMonLogList.jsp	jsp page for inquire the HTTP service monitoring log list
JSP	/WEB-INF/jsp/egovframework/utl/sys/htm/EgovHttpMonLogDetail.jsp	jsp page for inquire the registered HTTP service monitoring log
XML	/egovframework/sqlmap/com/utl/sys/htm/EgovHttpMon_SQL_*.xml	HTTP service monitoring QUERY XML

Class Diagram

<<Controller>>
web::EgovHttpMonController

- + selectHttpMonListView() : String
- + selectHttpMonList(HttpMonVO) : String
- + selectHttpMon(HttpMonVO) : String
- + insertHttpMon(SiteUrl) : String
- + updateHttpMon(SiteUrl) : String
- + deleteHttpMon(SiteUrl) : String

<<Service>>
service::EgovHttpMonService
{abstract}

- + selectHttpMonList(HttpMonVO) : List
- + selectHttpMonTotCnt(HttpMonVO) : int
- + selectHttpMon(HttpMonVO) : HttpMonVO
- + insertHttpMon(SiteUrl) : void
- + updateHttpMon(SiteUrl) : void
- + deleteHttpMon(SiteUrl) : void
- + selectHttptMonLogList(HttpMonVO) : List
- + selectHttpMonLogDetial(HttpMonVO) : HttpMonVO
- + insertHttpMonLog(HttpMonVO) : void

<<model>>
service::HttpMon

- - siteUrl: String
- - sysId: String
- - logId: String
- - webKind: String
- - webSttus: String
- - creatDt: String
- - mngrNm: String
- - mngrEmailAddr: String
- - frstRegisterId: String
- - frstRegisterPnttm: String
- - lastUpdusrId: String
- - lastUpdusrPnt: String

<<implement>>

<<ServiceImpl>>
impl::EgovHttpMonServiceImpl

- + selectHttpMonList(HttpMonVO) : List
- + selectHttpMonTotCnt(HttpMonVO) : int
- + selectHttpMon(HttpMonVO) : HttpMonVO
- + insertHttpMon(SiteUrl) : void
- + updateHttpMon(SiteUrl) : void
- + deleteHttpMon(SiteUrl) : void
- + selectHttpMonLogList(HttpMonVO) : List
- + selectHttpMonLogDetail(HttpMonVO) : HttpMonVO
- + insertHttpMonLog(HttpMonVO) : void

<<extends>>

<<Vo>>
service::HttpMonVO

- - strSiteUrl: String
- - strWebKind: String
- - strMngrNm: String
- - HttpMonList: List

<<Dao>>
impl::HttpMonDAO

- + selectHttpMonList(HttpMonVO) : List
- + selectHttpMonTotCnt(HttpMonVO) : int
- + selectHttpMon(HttpMonVO) : HttpMonVO
- + insertHttpMon(SiteUrl) : void
- + updateHttpMon(SiteUrl) : void
- + deleteHttpMon(SiteUrl) : void
- + selectHttpMonLogList(HttpMonVO) : List
- + selectHttpMonLogDetail(HttpMonVO) : HttpMonVO
- + insertHttpMonLog(HttpMonVO) : void

service::EgovHttpMonScheduling

- - httpMonService: EgovHttpMonService
- + monitorHttp() : void
- - sendEmail(HttpMonitor) : void

Related Tables

Table Name	Table Name(English)	Remarks
HTTP Service Monitoring	COMTNHTTPMON	It is to define and manage the properties information used to manage the HTTP service monitoring information
HTTP Service Monitoring Log Information	COMTHHTTPMONLOGINFO	It is to define and manage the properties information used to manage the HTTP service monitoring log information.

ID Generation

- In order to use the ID Generation Service, the **HTTP_ID** item should be added to COMTECOPSEQ which is the Sequence storage table.
- In order to use the ID Generation Service, the **HTTL_ID ID** item should be added to COMTECOPSEQ which is the Sequence storage table.

```
INSERT INTO COMTECOPSEQ VALUES('HTTP_ID','0');
INSERT INTO COMTECOPSEQ VALUES('HTTL_ID','0');
```

Scheduler Registration

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

```
<!—HTTP service monitoring - - >
<bean id="httpMon"
        class="org.springframework.scheduling.quartz.MethodInvokingJobDetailFactoryBean">
        <property name="targetObject" ref="httpMntrngScheduling" />
        <property name="targetMethod" value="monitorHttp" />
        <property name="concurrent" value="false" />
</bean>

<!—HTTP service monitoring trigger - - >
<bean id="httpMntrngTrigger"
        class="org.springframework.scheduling.quartz.SimpleTriggerBean">
        <property name="jobDetail" ref="httpMon" />
        <!- -  It is executed 1 minute after it starts. (milisecond) - - >
        <property name="startDelay" value="60000" />
        <!- -  It is executed for every 10 minutes. (milisecond) - - >
        <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="mntrngScheduler" class="org.springframework.scheduling.quartz.SchedulerFactoryBean">
        <property name="triggers">
                <list>
                        <ref bean="httpMntrngTrigger" />
                </list>
        </property>
</bean>
```

Related Screens & Action Manuals

HTTP Service Monitoring List Inquiry

Action	URL	Controller method	QueryID
Inquire	/utl/sys/htm/selectHttpMonList.do	selectHttpMonList	"HttpMonDAO.selectHttpMonList"
Inquire	/utl/sys/htm/selectHttpMonList.do	selectHttpMonList	"HttpMonDAO.selectHttpMonListCnt"

There are 10 items inquired per page on a HTTP service monitoring list, with 10 pages in total. Search options are the status and the administrator name.

Inquiry: It is to inquire the registered HTTP service monitoring list.

Registration: Using the Register button at the upper section to move to the **HTTP Service Monitoring Registration** screen in order to register a new HTTP service monitoring.

Log: Using the Log button at the upper section to move to the **HTTP Service Monitoring Log List** screen in order to check the HTTP service monitoring.

Send E- mail: It is to **send an e- mail** to the administrator when the HTTP service monitoring **status is abnormal**.

HTTP Service Monitoring Registration

Action	URL	Controller method	QueryID
Register	/utl/sys/htm/addHttpMon.do	insertHttpMon	"HttpMonDAO.insertHttpMon"

Insert the properties information of the HTTP service monitoring, and then register.

Save: After inserting the HTTP service monitoring properties to register a new HTTP service monitoring, register it using the **Save button** at the upper section.

List: It is used to move to the HTTP service monitoring list inquiry screen.

HTTP Service Monitoring Update

Action	URL	Controller method	QueryID
Update	/utl/sys/htm/updateHttpMon	updateHttpMon	"HttpMonDAO.updateHttpMon"

It is to update the HTTP service monitoring properties information, and then save.

Save: After updating the registered HTTP service monitoring properties, update it using the **Save button** at the upper section.
List: is used to move to the HTTP service monitoring list inquiry screen.

Detail Inquiry of the HTTP Service Monitoring

Action	URL	Controller method	QueryID
Detail Inquiry	/utl/sys/htm/getHttpMon.do	selectHttpMon	"HttpMonDAO.selectHttpMon"
Delete	/utl/sys/htm/deleteHttpMon.do	deleteHttpMon	"HttpMonDAO.deleteHttpMon"

It is to inquire the properties information of the HTTP service monitoring.

Update: After updating the registered HTTP service monitoring properties, move to the HTTP service monitoring update screen using the **Modify button** at the upper section.
Delete: It is to delete the registered HTTP service monitoring information.
List: It is to move to the HTTP service monitoring list inquiry screen.

HTTP Service Monitoring Log List Inquiry

Action	URL	Controller method	QueryID
Inquire	/utl/sys/htm/selectHttpMonLogList.do	selectHttpMonLogList	"HttpMonDAO.selectHttpMonLogList"
Inquire	/utl/sys/htm/selectHttpMonLogList.do	selectHttpMonLogList	"HttpMonDAO.selectHttpMonLogListCnt"

There are 10 items inquired per page on a HTTP service monitoring log list, with 10 pages in total. Search options are the status, the administrator name and the monitoring time.

Inquiry: It is to inquire the registered HTTP service monitoring log list.

Detail Inquiry of the HTTP Service Monitoring Log

Action	URL	Controller method	QueryID
Detail Inquiry	/utl/sys/htm/getHttpMonLog.do	selectHttpMonLog	"HttpMonDAO.selectHttpMonLog"

It is to inquire the properties information of the HTTP service monitoring log.

List: It is to move to the HTTP service monitoring log list inquiry screen.