

Web Log Management

Summary

Web Log Management provides the functions of searching, inquiring various logs which are generated when accessing to the web page of the user.

Description

Web Log Management accompanies the functions of **registration, inquiry, list, deletion,** and **summary** of the web log.

- ① Web Log Registration: Register the web log information. - With Interceptor function
- ② Web Log Inquiry: Inquire detailed contents of web log information.
- ③ Web Log List: Search and inquire the list of web log information.
- ④ Web Log Deletion : Delete the web log information. - With scheduling function of execution environment
- ⑤ Web Log Summary: Generate the summary by summing up the web log information. - With scheduling function of execution environment

Package Dependency

Web Log Management Package has direct functional dependency only for the common (cmm) package of element technology. However, in order to be executed without error during the component distribution, the distribution file is constituted with calendar package in accordance with the dependency between packages.

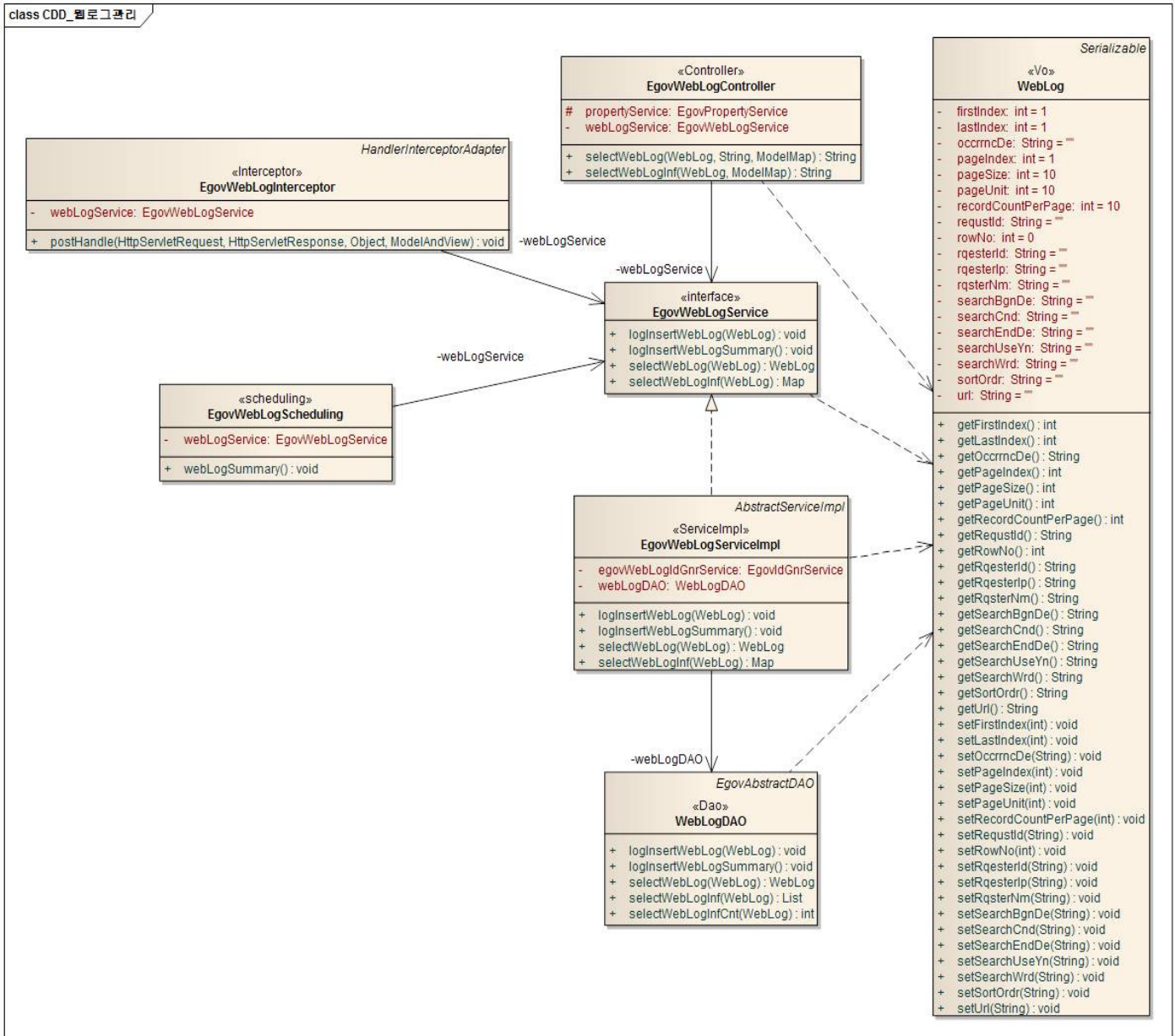
- Dependency between packages: [System management Package Dependency](#)

Class

| Type | Name of Corresponded Source | Remarks |
|-------------|---|---|
| Controller | egovframework.com.sym.log.wlg.web.EgovWebLogController.java | Controller class for Web Log Management |
| Service | egovframework.com.sym.log.wlg.service.EgovWebLogService.java | Service interface for Web Log Management |
| ServiceImpl | egovframework.com.sym.log.wlg.service.impl.EgovWebLogServiceImpl.java | Service implementation class for Web Log Management |
| Model | egovframework.com.sym.log.wlg.service.WebLog.java | Model class for Web Log Management |
| DAO | egovframework.com.sym.log.wlg.service.impl.WebLogDAO.java | Data processing class for Web Log Management |
| Interceptor | egovframework.com.sym.log.wlg.web.EgovWebLogInterceptor.java | Interceptor class for Web Log Registration |
| Scheduler | egovframework.com.sym.log.wlg.service.EgovWebLogScheduling.java | Scheduling |

| | | |
|-----------|--|--|
| | | class for Web Log deletion, summary |
| JSP | /WEB-INF/jsp/egovframework/com/sym/log/wlg/EgovWebLogList.jsp | jsp page for Web Log List |
| JSP | /WEB-INF/jsp/egovframework/com/sym/log/wlg/EgovWebLogInquire.jsp | jsp page for Web Log Inquiry |
| QUERY XML | resources/egovframework/sqlmap/com/sym/log/wlg/EgovWebLog_SQL_Mysql.xml | QUERY XML for Web Log Management MySQL |
| QUERY XML | resources/egovframework/sqlmap/com/sym/log/wlg/EgovWebLog_SQL_Oracle.xml | QUERY XML for Web Log Management Oracle |
| QUERY XML | resources/egovframework/sqlmap/com/sym/log/wlg/EgovWebLog_SQL_Tibero.xml | QUERY XML for Web Log Management Tibero |
| QUERY XML | resources/egovframework/sqlmap/com/sym/log/wlg/EgovWebLog_SQL_Altibase.xml | QUERY XML for Web Log Management Altibase |
| Idgen XML | resources/egovframework/spring/context-idgen.xml | Web Log Management Id generation Idgen XML |

Class Diagram



ID Generation

ID Generation related DDL & DML

- In order to utilize ID Generation Service, **WEBLOG_ID** item is added to COMTECOPSEQ which is the Sequence storage table.

```
CREATE TABLE COMTECOPSEQ ( table_name varchar(16) NOT NULL,
    next_id DECIMAL(30) NOT NULL,
    PRIMARY KEY (table_name));
```

```
INSERT INTO COMTECOPSEQ VALUES('WEBLOG_ID','0');
```

ID Generation Environment Setup (context-idgen.xml)

```
<bean name="egovWebLogIdGnrService"
    class="egovframework.rte.fdl.idgnr.impl.EgovTableIdGnrService"
    destroy-method="destroy">
    <property name="dataSource" ref="dataSource" />
    <property name="strategy" ref="webLogStrategy" />
    <property name="blockSize" value="1"/>
</bean>
```

```

    <property name="table"      value="COMTECOPSEQ"/>
    <property name="tableName" value="WEBLOG_ID"/>
</bean>

```

```

<bean name="webLogStrategy"
class="egovframework.rte.fdl.idgnr.impl.strategy.EgovIdGnrStrategyImpl">
    <property name="prefix" value="WEBLOG_" />
    <property name="cipers" value="13" />
    <property name="fillChar" value="0" />
</bean>

```

Related Table

| Name of table | Name of table (English) | Remarks |
|-----------------|-------------------------|-------------------------------------|
| Web log | COMTNWEBLOG | Manage web log information. |
| Web log summary | COMTSWEBLOGSUMMARY | Manage web log summary information. |

Interceptor

egov-com-interceptor.xml

```

<bean id="egovWebLogInterceptor"
class="egovframework.com.sym.log.web.EgovWebLogInterceptor" />

<bean id="webLogMapping"
class="org.springframework.web.servlet.mvc.annotation.DefaultAnnotationHandlerMapping">
    <property name="interceptors">
        <list>
            <ref bean="egovWebLogInterceptor" />
        </list>
    </property>
</bean>

```

Set up the [Interceptor](#) to implement web log registration function.

- Create EgovWebLogInterceptor class to implement web log registration function.

```

package egovframework.com.sym.log.web;

import javax.annotation.Resource;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.springframework.web.servlet.ModelAndView;
import org.springframework.web.servlet.handler.HandlerInterceptorAdapter;

import egovframework.com.sec.ram.security.userdetails.util.EgovUserDetailsHelper;
import egovframework.com.sym.log.service.EgovLogManageService;
import egovframework.com.sym.log.service.WebLog;
import egovframework.com.uat.uia.service.LoginVO;

public class EgovWebLogInterceptor extends HandlerInterceptorAdapter {

    @Resource(name="EgovLogManageService")
    private EgovLogManageService logManageService;

    /**
     * Create web log information.
     *
     * @param HttpServletRequest request, HttpServletResponse response, Object handler

```

```

* @return
* @throws Exception
*/
@Override
public void postHandle(HttpServletRequest request,
    HttpServletResponse response, Object handler, ModelAndView modeAndView) throws Exception
{

    WebLog webLog = new WebLog();
    String reqURL = request.getRequestURI();
    String uniqId = "";

    /* Authenticated */
    Boolean isAuthenticated = EgovUserDetailsHelper.isAuthenticated();
    if(isAuthenticated.booleanValue()) {
        LoginVO user = (LoginVO)EgovUserDetailsHelper.getAuthenticatedUser();
        uniqId = user.getUniqId();
    }

    webLog.setUrl(reqURL);
    webLog.setRqesterId(uniqId);
    webLog.setRqesterIp(request.getRemoteAddr());

    logManageService.logInsertWebLog(webLog);

}
}

```

Scheduling

context-scheduling-sym-log-wlg.xml

(src/main/resources/egovframework/spring/com/context-scheduling-sym-log-wlg.xml)

```

<!-- Web log summary-->
<bean id="webLogging"
    class="org.springframework.scheduling.quartz.MethodInvokingJobDetailFactoryBean">
    <property name="targetObject" ref="egovLogManageScheduling" />
    <property name="targetMethod" value="webLogSummary" />
    <property name="concurrent" value="false" />
</bean>

<!-- Web log summary trigger-->
<bean id="webLogTrigger"
    class="org.springframework.scheduling.quartz.SimpleTriggerBean">
    <property name="jobDetail" ref="webLogging" />
    <!-- Execute after 1 minute of the starting. (milisecond) -->
    <property name="startDelay" value="60000" />
    <!-- Execute every 1 hour. (milisecond) -->
    <property name="repeatInterval" value="3600000" />
</bean>

<!-- Scheduler registration -->
<bean id="logSummaryScheduler"
class="org.springframework.scheduling.quartz.SchedulerFactoryBean">
    <property name="triggers">
        <list>
            <ref bean="sysLogTrigger" />
            <ref bean="webLogTrigger" />
            <ref bean="trsmrcvLogTrigger" />
            <ref bean="userLogTrigger" />
        </list>
    </property>

```

</bean>

Set up the [Scheduling](#) to implement the web log deletion, summary functions.

- Create EgovWebLogScheduling class to implement the web log deletion, summary functions.

```
@Service("egovWebLogScheduling")
public class EgovWebLogScheduling {

    @Resource(name="EgovWebLogService")
    private EgovWebLogService webLogService;

    /**
     * Summarize the web log information.
     * Summarize and input the log of previous day, and delete the log of 1 week ago.
     *
     * @param
     * @return
     * @throws Exception
     */
    public void webLogSummary() throws Exception {
        webLogService.logInsertWebLogSummary();
    }
}
```

Related Functions

Web log management is divided into the **web log list inquiry**, **web log detailed inquiry** functions.

Web Log List Inquiry

Business Rule

Web log list is inquired with the unit of 10 cases per page, and paging is realized with the unit of 10 pages. Search condition is performed for the generation date and URL.

Related Code

N/A

Screen and execution manual

| Action | URL | Controller method | QueryID |
|--------------|----------------------------------|-------------------|--------------------------------|
| List inquiry | /sym/log/wlg/SelectWebLogList.do | selectWebLogInf | "WebLogDAO.selectWebLogInf", |
| | | | "WebLogDAO.selectWebLogInfCnt" |

| 번호 | 요청ID | 발생일자 | URL | 요청자 | 요청자IP | 상세보기 |
|----|----------------------|----------|---------------------------------------|-------|-----------|------|
| 1 | WEBLOG_0000000037381 | 20090428 | /uat/uia/egovLoginUsr.do | | 127.0.0.1 | |
| 2 | WEBLOG_0000000037382 | 20090428 | /uat/uia/actionLogin.do | | 127.0.0.1 | |
| 3 | WEBLOG_0000000037383 | 20090428 | /sym/ccm/zip/EgovCcmZipList.do | 업무담당자 | 127.0.0.1 | |
| 4 | WEBLOG_0000000037384 | 20090428 | /sym/ccm/zip/EgovCcmExcelZipRegist.do | 업무담당자 | 127.0.0.1 | |
| 5 | WEBLOG_0000000037385 | 20090428 | /sym/ccm/zip/EgovCcmZipList.do | 업무담당자 | 127.0.0.1 | |
| 6 | WEBLOG_0000000037386 | 20090428 | /sym/ccm/zip/EgovCcmZipDetail.do | 업무담당자 | 127.0.0.1 | |
| 7 | WEBLOG_0000000037387 | 20090428 | /sym/ccm/zip/EgovCcmZipModify.do | 업무담당자 | 127.0.0.1 | |
| 8 | WEBLOG_0000000037388 | 20090428 | /validator.do | 업무담당자 | 127.0.0.1 | |
| 9 | WEBLOG_0000000037389 | 20090428 | /sym/ccm/zip/EgovCcmZipModify.do | 업무담당자 | 127.0.0.1 | |
| 10 | WEBLOG_0000000037390 | 20090428 | /sym/ccm/zip/EgovCcmZipList.do | 업무담당자 | 127.0.0.1 | |

1 2 3 4 5 6 7 8 9 10

In order to perform the web log detailed inquiry function, click the **Detail View** button.

Detailed Web Log Inquiry

Business Rule

Detailed inquiry page of web log list is displayed.

Related Code

N/A

Screen and execution manual

| Action | URL | Controller method | QueryID |
|------------------|-------------------------------|-------------------|--------------------------|
| Detailed inquiry | /sym/log/wlg/InquireWebLog.do | selectWebLog | "WebLogDAO.selectWebLog" |

Web log detailed inquiry is comprised of pop-up window, and when the **Close** button is clicked, the window is closed.

▶ 웹 로그 정보

| | |
|-------|--------------------------------|
| 요청ID | WEBLOG_0000000037383 |
| 발생일자 | 20090428 |
| URL | /sym/ccm/zip/EgovCcmZipList.do |
| 요청자 | 업무담당자 |
| 요청자IP | 127.0.0.1 |

닫기

References

- Refer to execution environment: [Interceptor](#)
- Refer to execution environment: [Scheduling](#)
- Refer to execution environment: [ID Generation](#)