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# 가

( )

xFrame5\_egov

- xFrame5\_egov

xFrame5

(<http://www.egovframe.go.kr/>)

[ > 가 > 가 ]

The screenshot shows the eGovFrame website interface. At the top, there is a navigation menu with items like '표준프레임워크 소개', '개발 가이드', '다운로드', '개발자 교육', '기술지원', '호환성확인', and '알림마당'. Below the menu, there is a search bar and a '다운로드' (Download) section. The main content area is titled '개발환경 다운로드' (Development Environment Download) and contains a 'Release Note' section with the following details:

Release Note	Dependencies
2020.05.14 개발자용 개발환경 3.9.0 (Mac, Linux)	<ul style="list-style-type: none"> <li>Eclipse Photon (4.8.0) 적용</li> <li>공통컴포넌트 251종</li> <li>DBMS 7종</li> <li>실행환경 3.9.0 적용</li> <li>모바일 Device API 에 Cordova 8.1.2 탑재</li> <li>모바일 Device API 형식에 MyBatis 전환</li> </ul>
2020.03.05 개발자용 개발환경 3.9.0	<ul style="list-style-type: none"> <li>Eclipse Photon (4.8.0) 적용</li> <li>공통컴포넌트 251종</li> <li>DBMS 7종</li> <li>실행환경 3.9.0 적용</li> <li>모바일 Device API 에 Cordova 8.1.2 탑재</li> </ul>

xFrame5\_egov

xFrame5\_egov

xFrame5\_egov

xFrame5 3.6( 가 ), java, tomcat, xFrame5 UI , java

## xFrame5\_egov

xFrame5\_egov xFrame5 (http://technet.softbase.co.kr/wiki/install/egovframe\_install)  
xFrame5\_egov.zip

현재 위치 / [/](#) / [install](#) / [egovframe\\_install](#)

**Install**

- 개요
- xFrame5-DevStudio
- 전용브라우저
- 전자정부표준프레임워크

**DBMS 계정**

- PrivateConfig.ini 구성

**DBMS 접속**

- ORACLE
- MySQL
- DB2

**DBMS 서버**

- 일반 DBMS
- MYSQL

**개요**

xFrame5 솔루션에 대한 전자정부표준프레임워크 연동 샘플을 제공합니다.

**자료**

- 전자정부 표준프레임워크 연동 가이드
- XFrame5Util API 가이드 (xDataSet5\_XFrame5Util\_API\_Guide.pdf)
- xFrame5\_egov 프레임워크 파일 (xFrame5\_egov.zip)**
- 개발환경 프로젝트 샘플 파일 (xFrame5-egov3.6-1.0.4.zip) : 최신버전(2021-04-13기준)

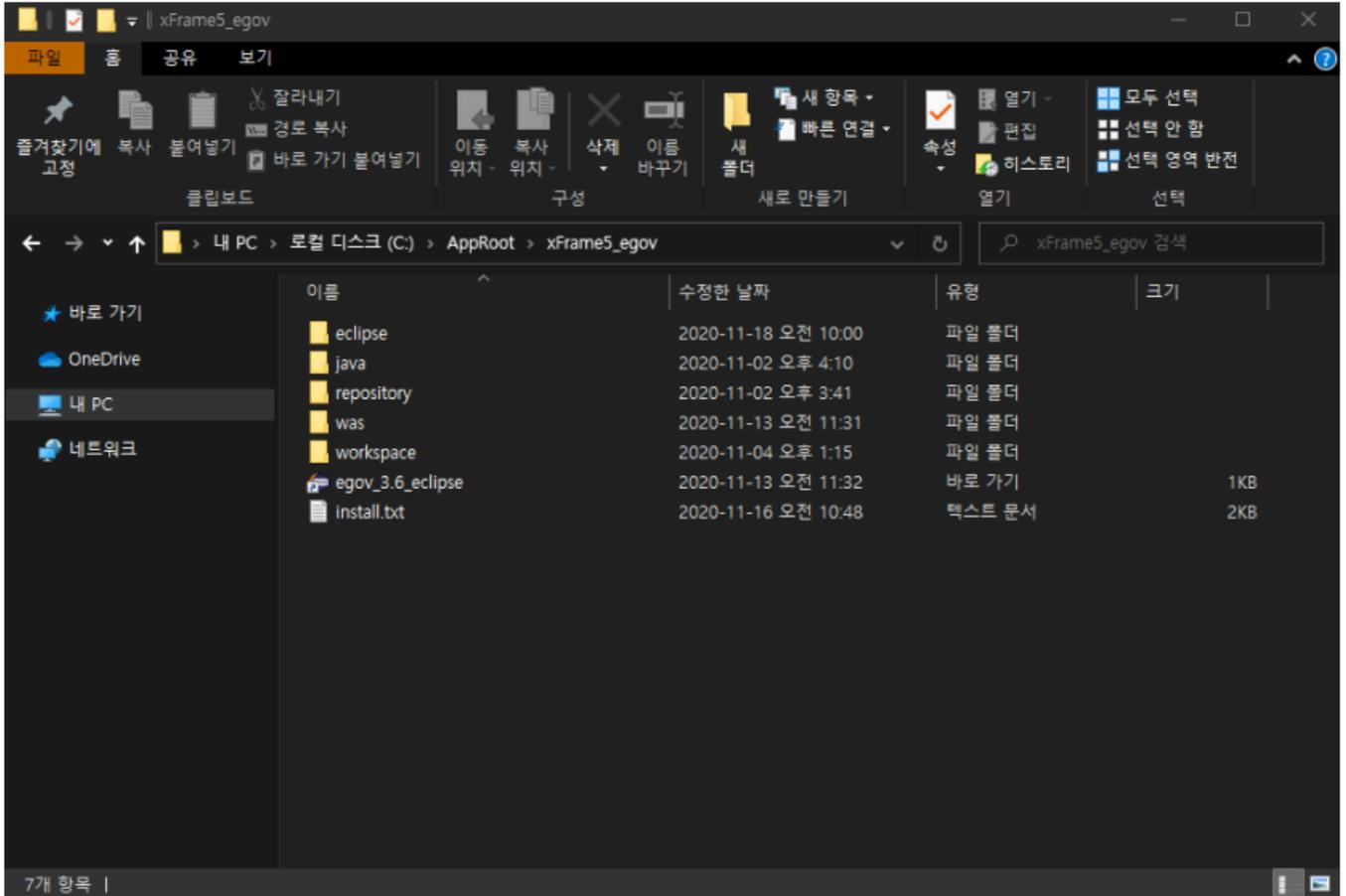
install/egovframe\_install.txt 마지막으로 수정됨: 2021/09/16 00:58 저자 127.0.0.1

## xFrame5\_egov

C "AppRoot" ( )

- eclipse\eclipse.ini → VM : java
- eclipse workspace
- eclipse > maven : maven repository
- eclipse > server > Server Runtime Environments : tomcat

## xFrame5\_egov



eclipse	3.6 eclipse
java	java
repository	local maven
was	tomcat
workspace	sample eclipse workspace
xFrame5( )	xFrame5 UI

. xFrame5\_egov

Import,  
가

- 
- Import
- 

xFrame5  
xframe5\_egov3.6-1.0.0.zip

([http://technet.softbase.co.kr/wiki/install/egovframe\\_install](http://technet.softbase.co.kr/wiki/install/egovframe_install))

### Install

개요

xFrame5-DevStudio

전용브라우저

전자정부표준프레임워크

### DBMS 계정

PrivateConfig.ini 구성

### DBMS 접속

ORACLE

MySQL

DB2

### DBMS 서버

일반 DBMS

MYSQL

## 개요

xFrame5 솔루션에 대한 전자정부표준프레임워크 연동 샘플을 제공합니다.

## 자료

- 전자정부 표준프레임워크 연동 가이드
- XFrame5Util API 가이드 (xDataSet5\_XFrame5Util\_API\_Guide.pdf)
- xFrame5\_egov 프레임워크 파일 (xFrame5\_egov.zip)
- **개발환경 프로젝트 샘플 파일 (xFrame5-egov3.6-1.0.4.zip) : 최신버전(2021-04-13기준)**

📄 install/egovframe\_install.txt 📅 마지막으로 수정됨: 2021/09/16 00:58 저자 127.0.0.1

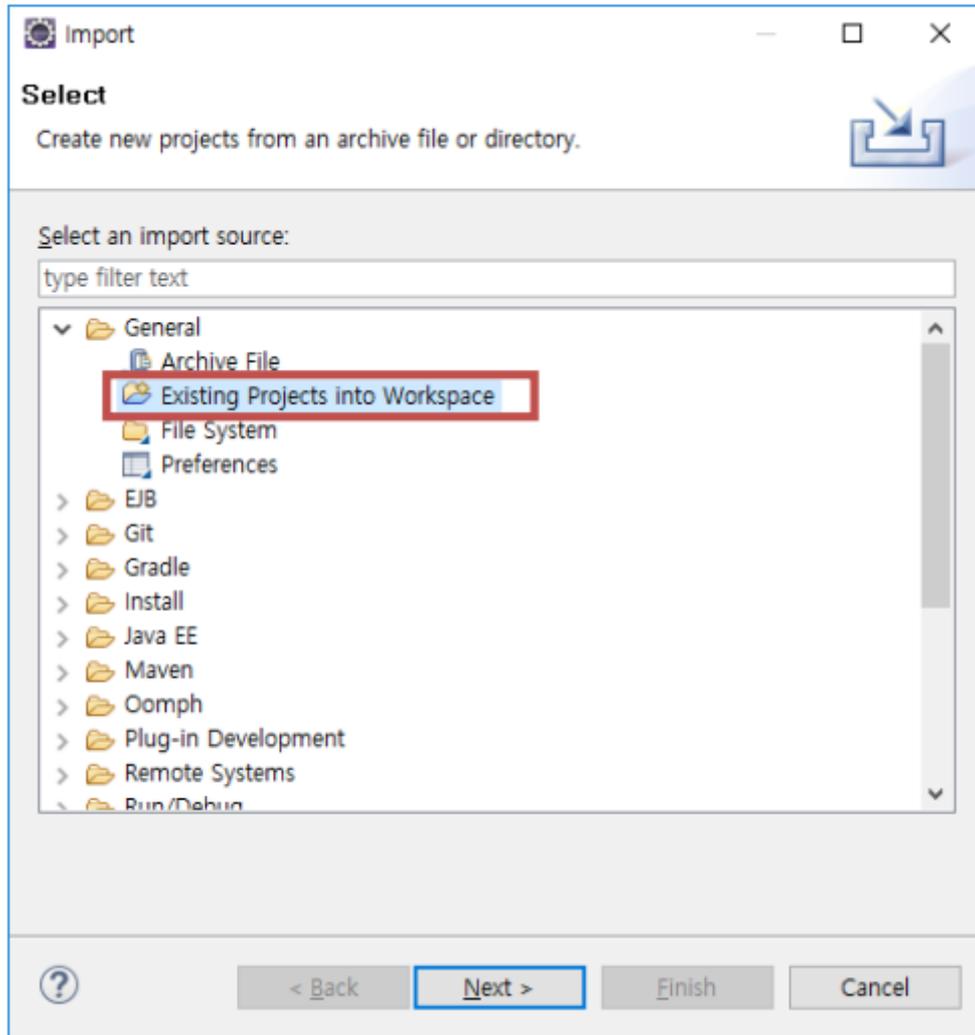
```

: import (java )
xframe5_egov3.6-1.0.0.zip .
xframe5_egov3.6( )-1.0.0( ).zip

```

## Import

File > Import...



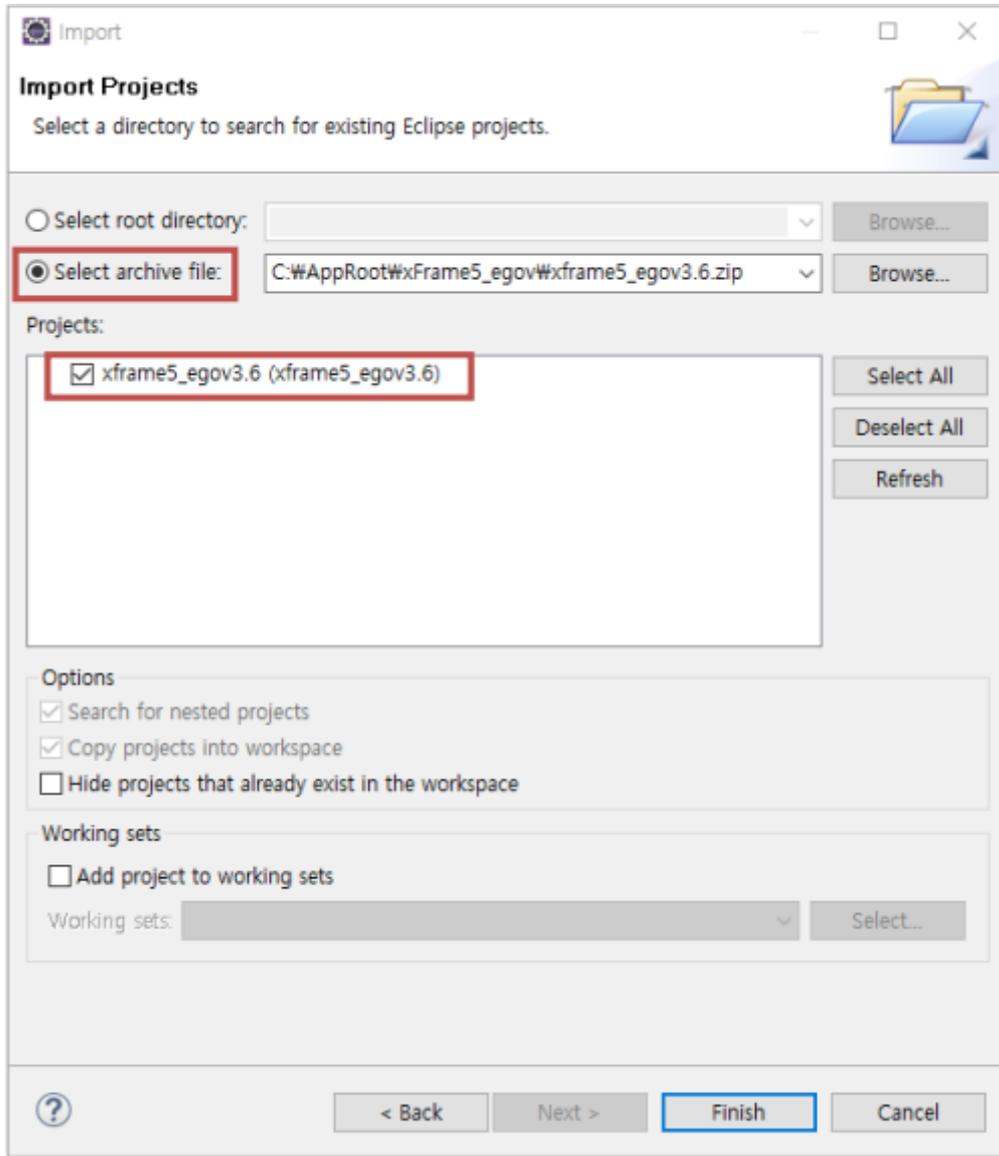
General > Existing Projects into Workspace

Next

select archive file  
1.0.0.zip)

Browse...

(xframe5\_egov3.6-



Finish import .

[ import ]

가 clean .



**web.xml**

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://java.sun.com/xml/ns/j2ee"
  xmlns:web="http://xmlns.jcp.org/xml/ns/javaee"
  xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee
  http://java.sun.com/xml/ns/j2ee/web-app_2_4.xsd
  http://xmlns.jcp.org/xml/ns/javaee
  http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd" id="xadmin"
  version="2.4">

  <servlet>
    <servlet-name>XExcelDownload</servlet-name>
    <servlet-class>xexcel5.servlet.XExcelDownload</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>XExcelDownload</servlet-name>
    <url-pattern>/XExcelDownload</url-pattern>
  </servlet-mapping>
  <servlet>
    <servlet-name>XExcelUpload</servlet-name>
    <servlet-class>xexcel5.servlet.XExcelUpload</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>XExcelUpload</servlet-name>
    <url-pattern>/XExcelUpload</url-pattern>
  </servlet-mapping>

</web-app>

```

**was**

가

Tomcat 7.0

. Tomcat 7.0

<https://tomcat.apache.org/download-70.cgi>

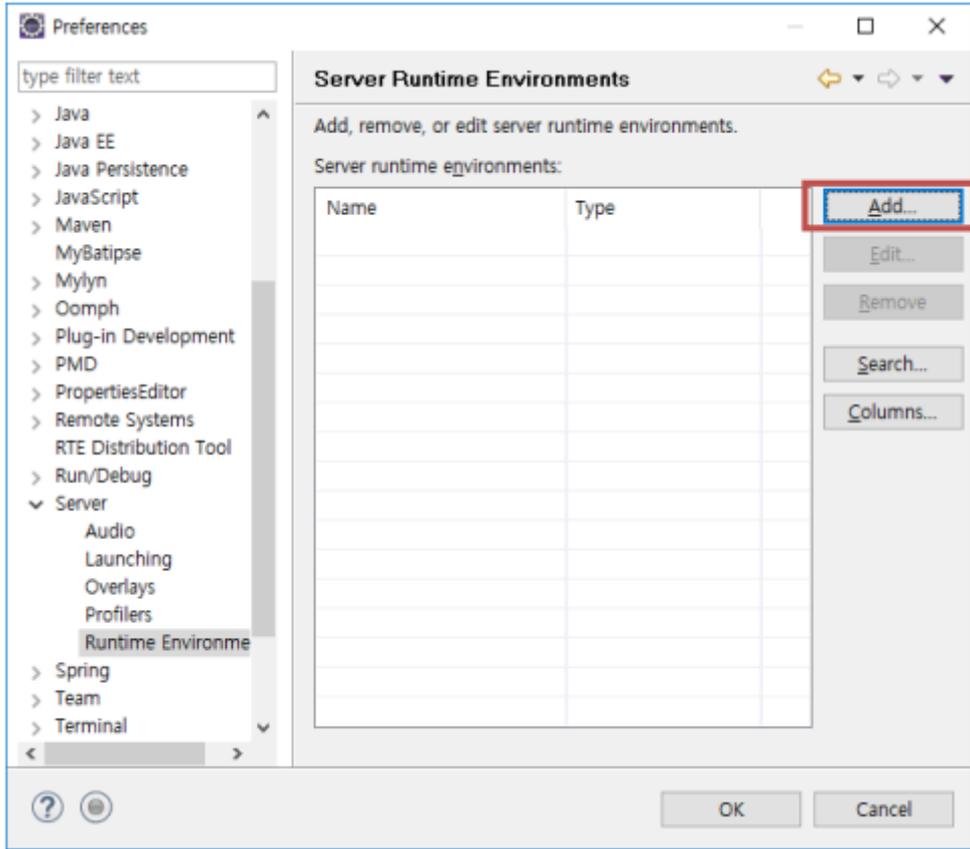
Tomcat

가

Window &gt; Preference

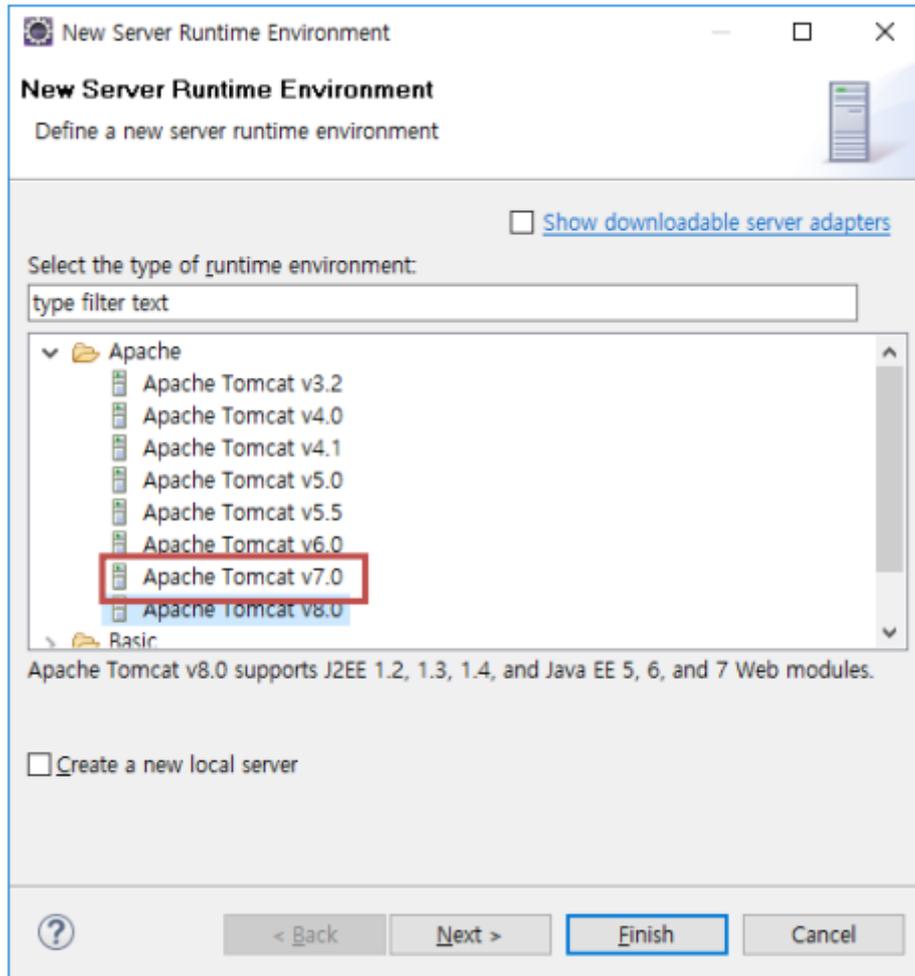
. Server &gt; Runtime Environments

Add



Apache Tomcat v7.0

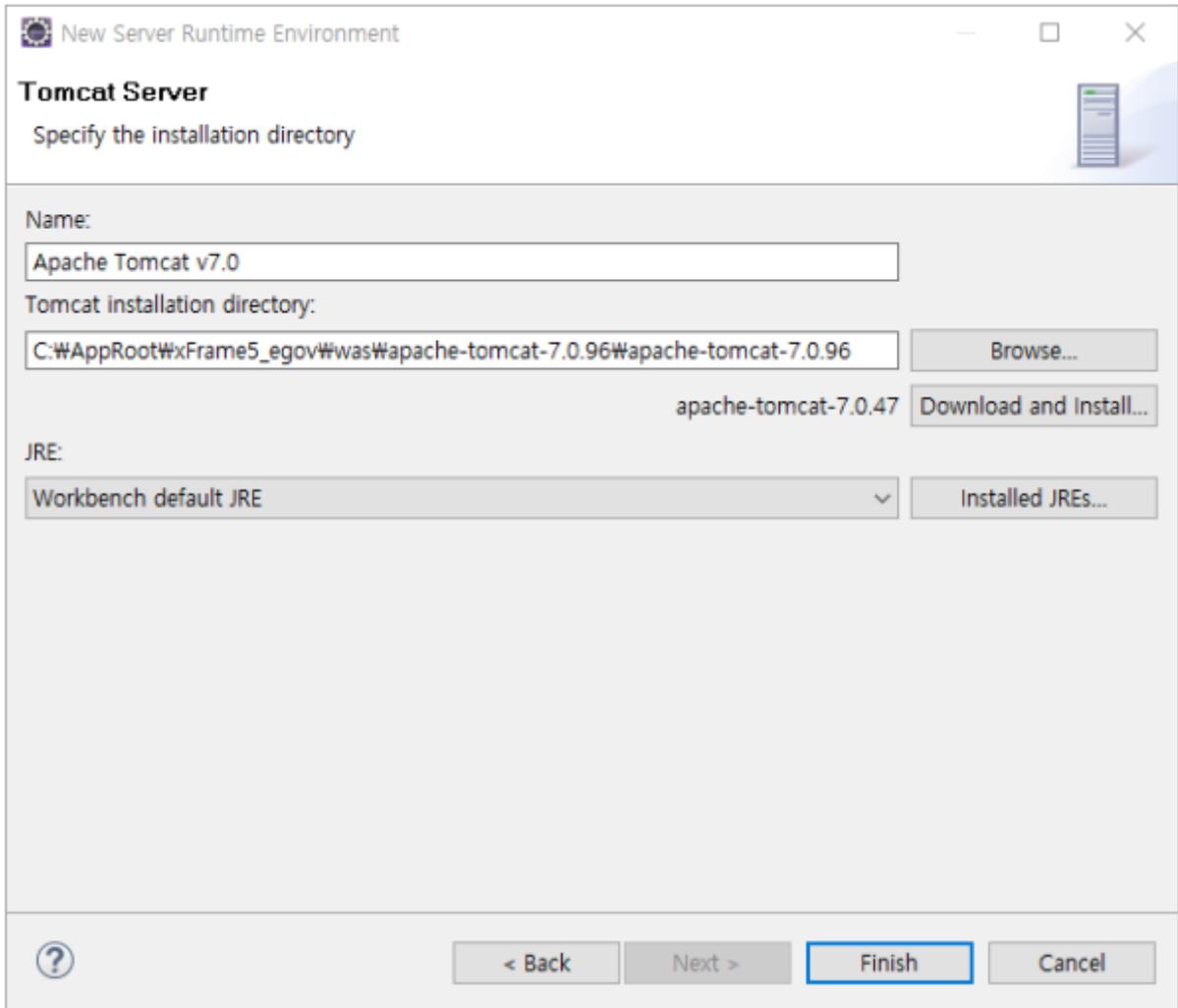
Next



Browse

Tomcat

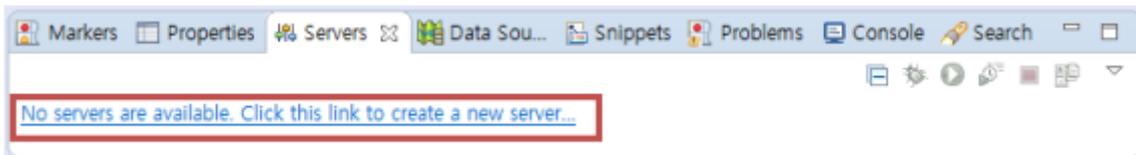
Finish



Tomcat

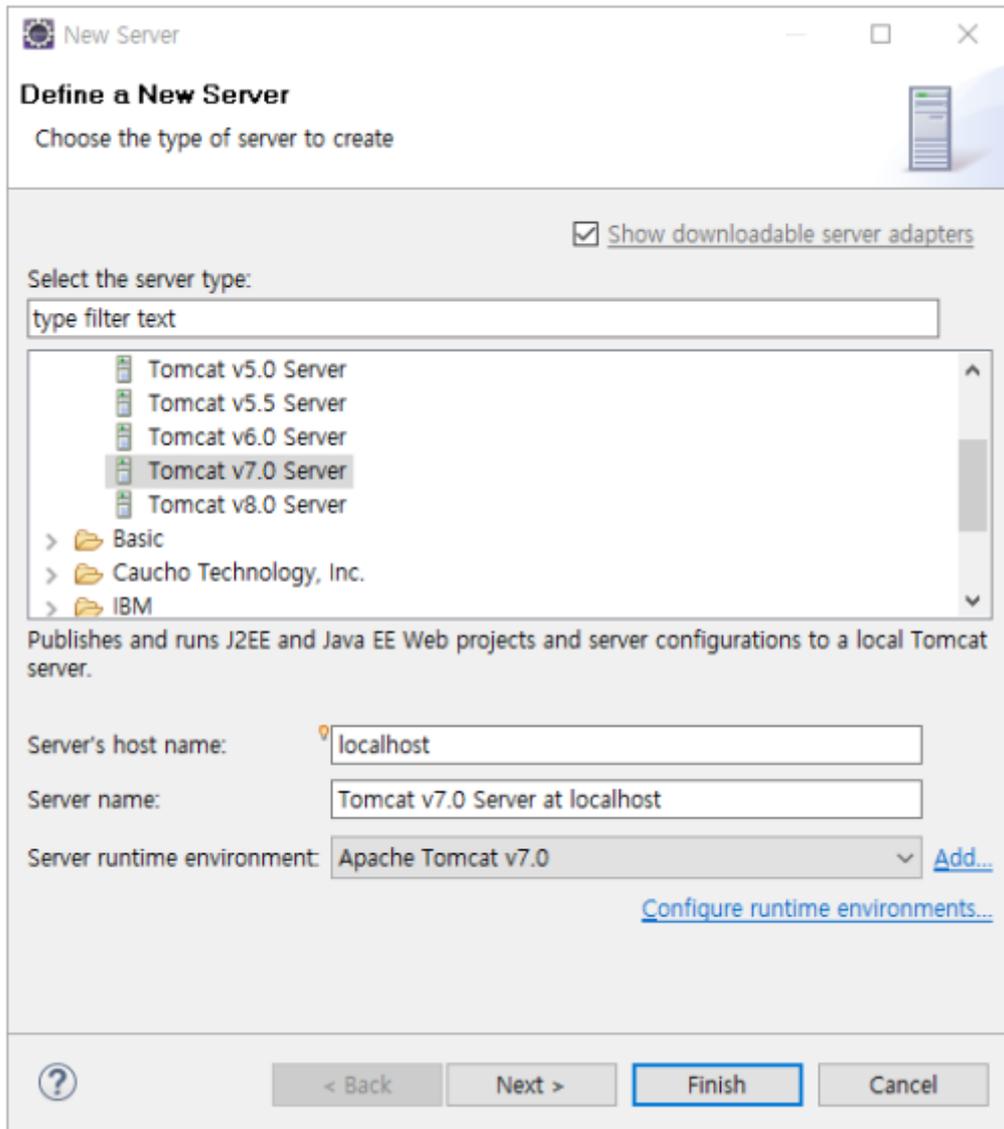
No server are...  
Window > Show View > Servers

New > Server  
가



Tomcat v7.0 Server

Finish

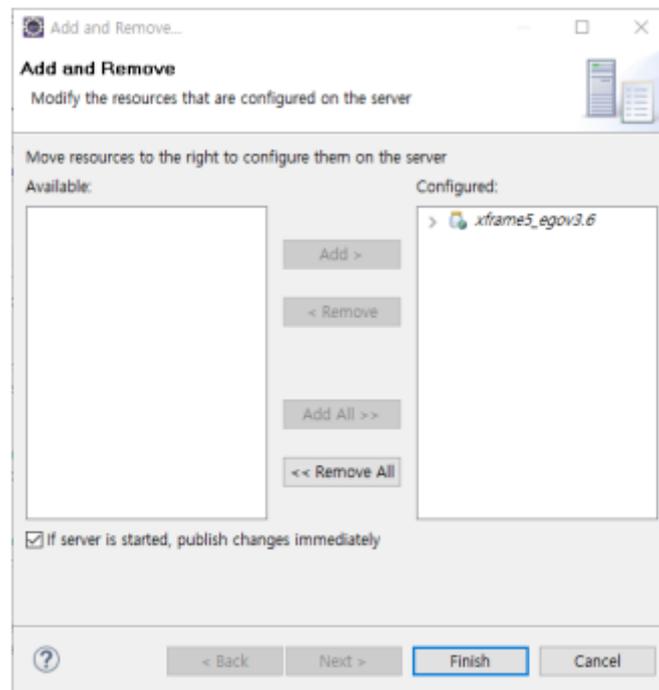
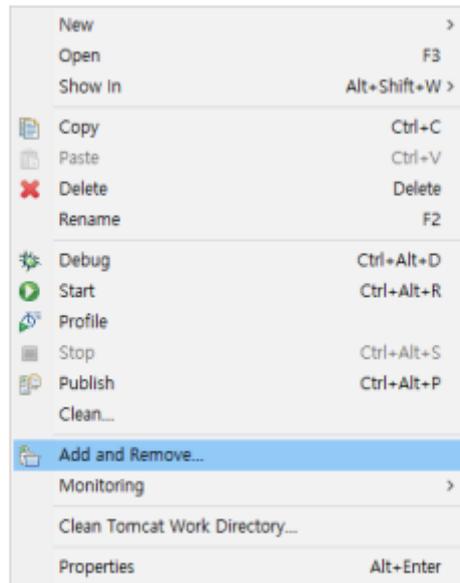


was

가 tomcat

Add and Remove

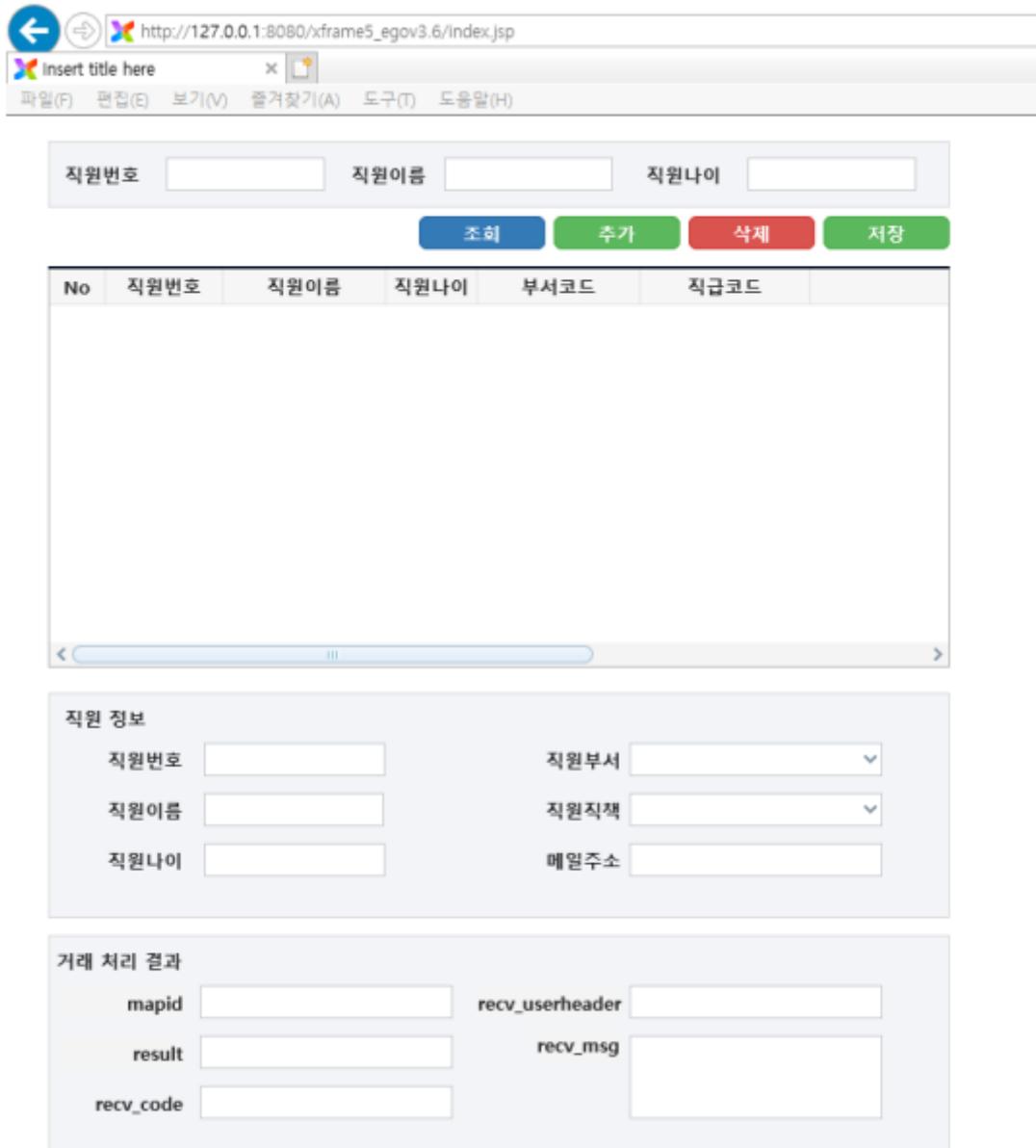
가



URL

[http://localhost:8080/xframe5\\_egov3.6/index.jsp](http://localhost:8080/xframe5_egov3.6/index.jsp)  
[http://localhost:8080/xframe5\\_egov3.6/xframe5.do](http://localhost:8080/xframe5_egov3.6/xframe5.do)

[       ]



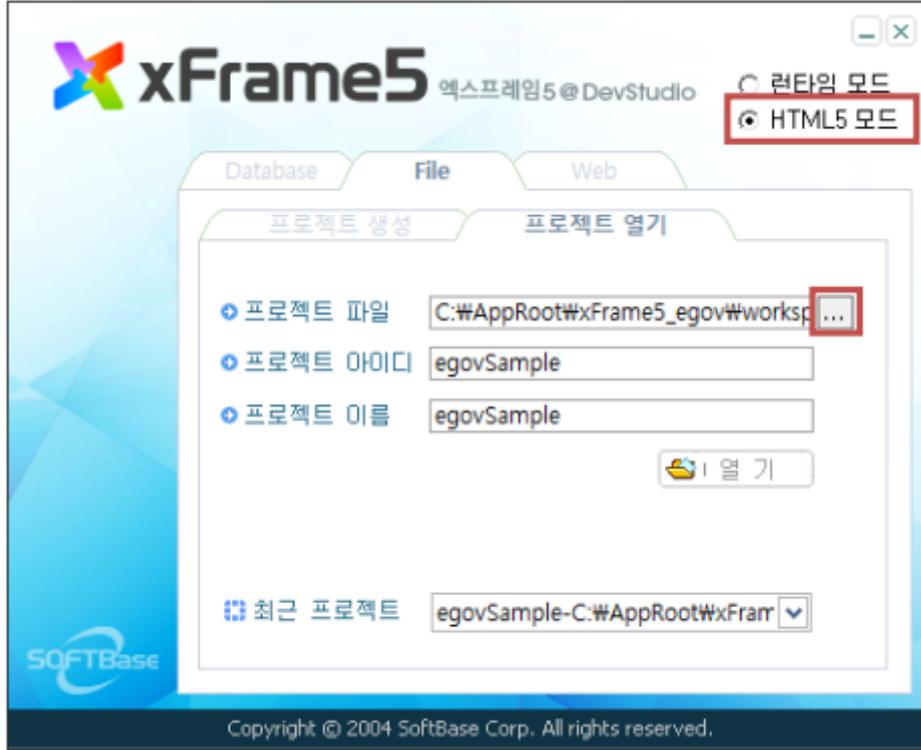
**xFrame5**

xFrame5 . HTML5 가 “ ... ”

workspace 가 C:\AppRoot\xFrame5\_egov

C:\AppRoot\xFrame5\_egov\workspace\xframe5\_egov3.6\src\main\webapp\project\egovSample.xfd

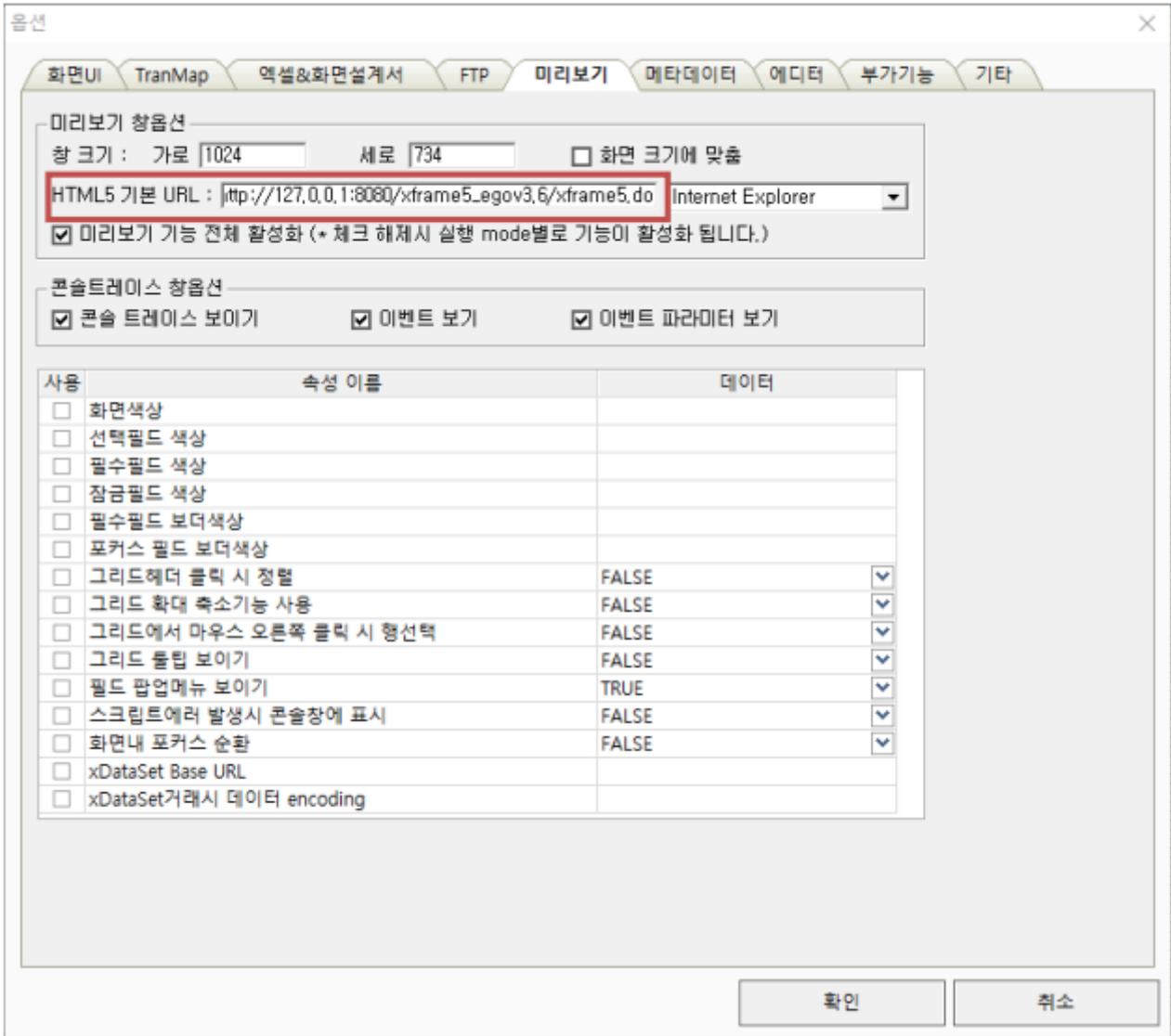
가



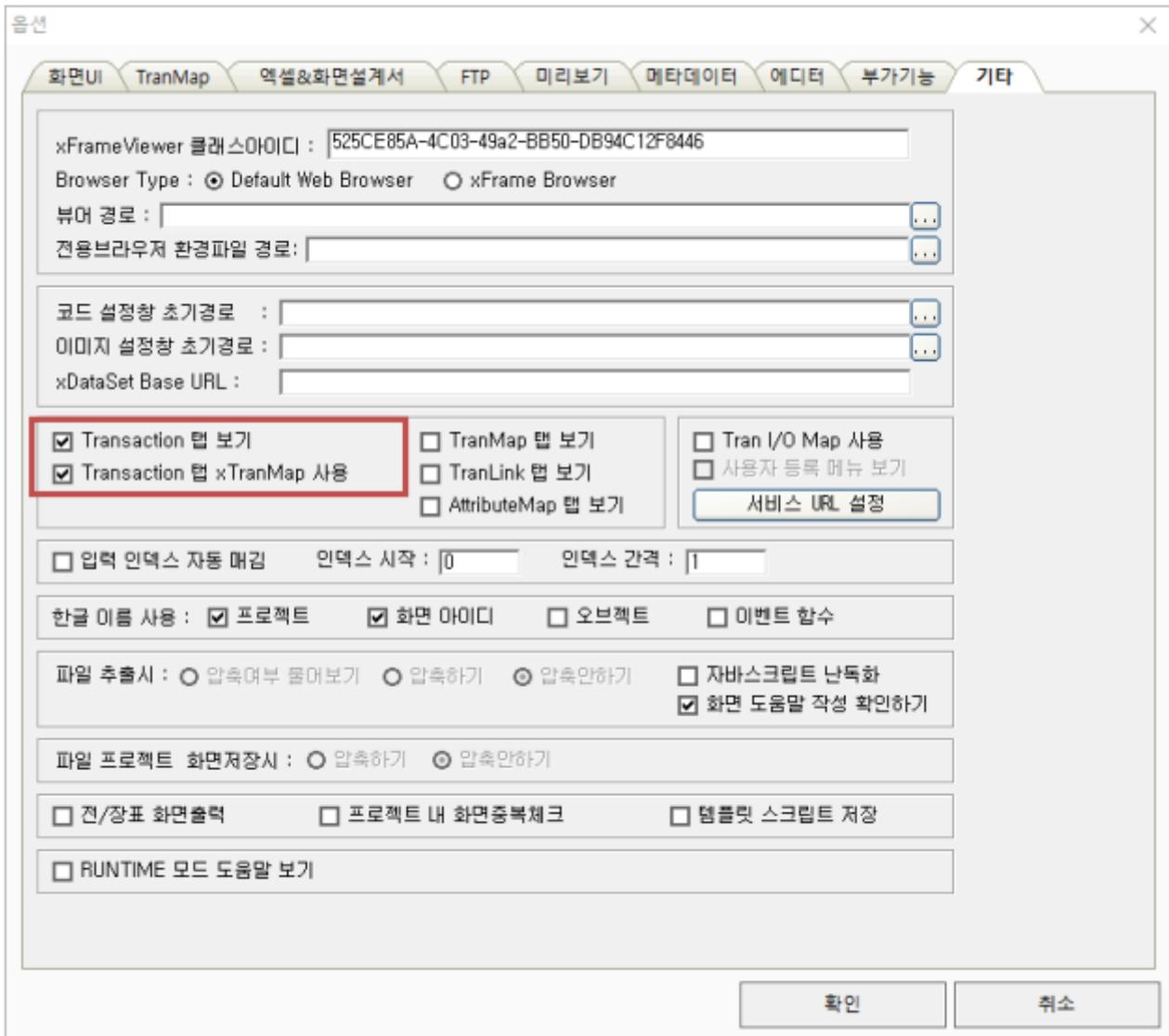
HTML5 URL

> [ ] IP

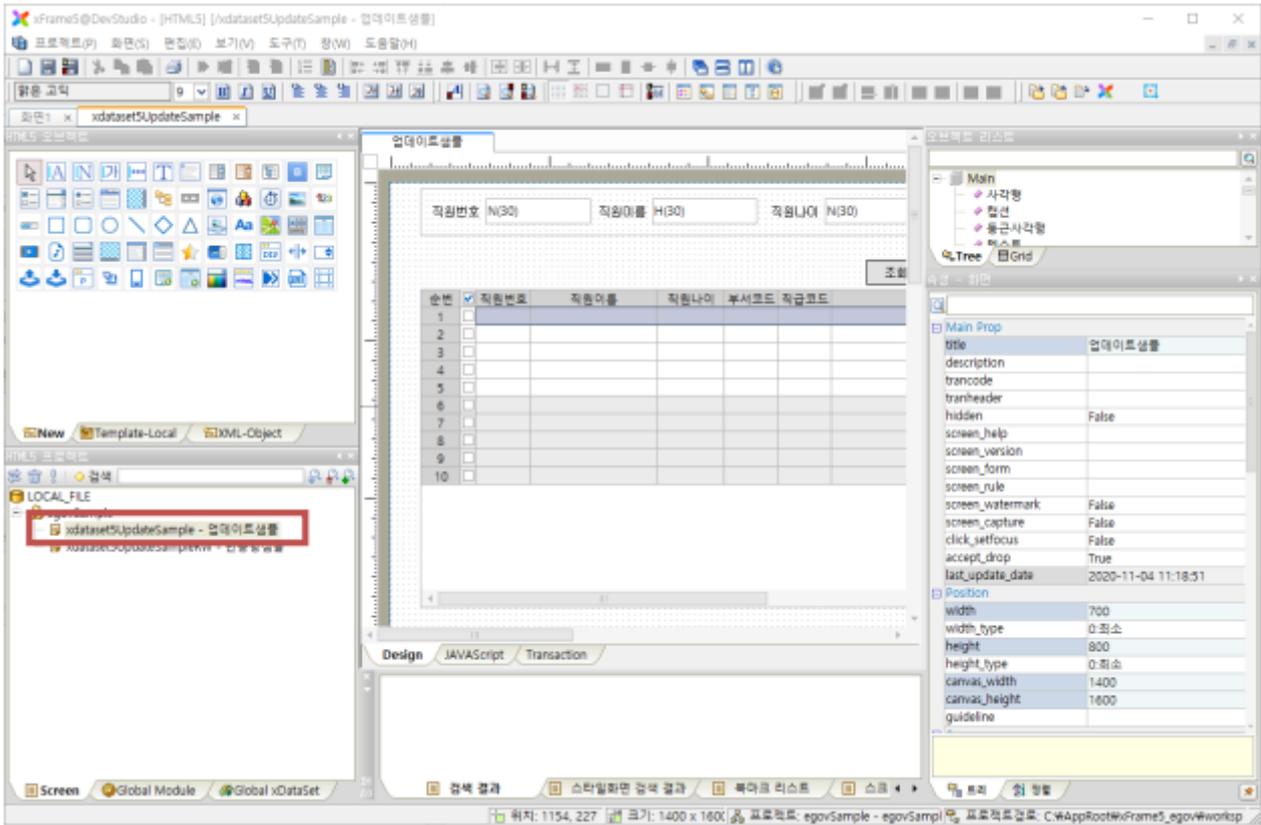
HTML5 URL : [http://127.0.0.1:8080/xframe5\\_egov3.6/xframe5.do](http://127.0.0.1:8080/xframe5_egov3.6/xframe5.do)



[   ]      “Transaction      ”      “Transaction      xTranMap      ”      .



[HTML5] [Screen] xdataset5UpdateSample , F8



, , 가  
가 .

직원번호     직원이름     직원나이

조회
추가
삭제
저장

No	직원번호	직원이름	직원나이	부서코드	직급코드	
1	100226	hkjung	25	03:재무부	01:사원	hkjung@gm.
2	100312	shyou	29	04:영업부	01:사원	shyou@gma
3	100133	yjkim	31	02:기획부	01:사원	yjkim@gmai
4	100218	jtkim	33	05:구매부	02:대리	jtkim@gmail
5	100124	kjlim	35	01:총무부	02:대리	kjlim@gmail.
6	100212	yskim	36	03:재무부	02:대리	yskim@gmai
7	100319	ihbang	36	05:구매부	03:과장	ihbang@gm.
8	100325	jwkim	37	01:총무부	03:과장	jwkim@gmai
9	100118	dkyou	40	05:구매부	03:과장	dkyou@gma
10	100112	khkwan	42	02:기획부	04:차장	khkwan@grr

**직원 정보**

직원번호 <input type="text" value="100226"/>	직원부서 <input type="text" value="03:재무부"/>
직원이름 <input type="text" value="hkjung"/>	직원직책 <input type="text" value="01:사원"/>
직원나이 <input type="text" value="25"/>	메일주소 <input type="text" value="hkjung@gmail.com"/>

**거래 처리 결과**

mapid <input type="text" value="TR_SELECT"/>	recv_userheader <input type="text" value="user_header_msg"/>
result <input type="text" value="1"/>	recv_msg <input type="text" value="조회 완료 되었습니다."/>
recv_code <input type="text" value="100"/>	

xFrame5

xDataSet5

- 
- 
- 
- 
- UI

가, ,  
가

xFrame5

가

xframe5

doc

“xDataSet”

“Transaction”

순번	xDataSet ID	Description
1	<input type="checkbox"/> DS_REQ	조회기준 데이터셋
2	<input type="checkbox"/> DS_RES	직원정보 Case1
3	<input type="checkbox"/> DS_RES_MAP	직원정보 Case2
4	<input type="checkbox"/> DS_RES_VO	직원정보 Case3
5	<input type="checkbox"/> DS_CBO_DEPT	부서정보
6	<input type="checkbox"/> DS_CBO_TITLE	직책정보

**DS\_REQ**

순번	Column	Description	Length	Update Callback Function
1	<input type="checkbox"/> EMP_NO	직원번호	6	
2	<input type="checkbox"/> EMP_NAME	직원이름	20	
3	<input type="checkbox"/> EMP_AGE	직원나이	10	

**DS\_RES**

DS\_RES (DS\_RES\_MAP, DS\_RES\_VO )

순번	Column	Description	Length	Update Callback Function
1	<input type="checkbox"/> EMP_NO	직원번호	6	
2	<input type="checkbox"/> EMP_NAME	직원이름	20	
3	<input type="checkbox"/> EMP_AGE	직원나이	10	
4	<input type="checkbox"/> DEPT_CODE	부서코드	2	
5	<input type="checkbox"/> TITLE_CODE	직급코드	2	
6	<input type="checkbox"/> MAIL_ADDR	메일주소	100	
7	<input type="checkbox"/> PROCESS_RESULT	처리결과	30	

**DS\_CBO\_DEMP**

### DS\_CBO\_DEPT

순번	Column	Description	Length	Update Callback Function
1	<input type="checkbox"/> dept_code	부서코드	2	
2	<input type="checkbox"/> dept_name	부서이름	29	

DS\_CBO\_DEPT

순번	dept_code	dept_name
1	01	총무부
2	02	기획부
3	03	재무부
4	04	영업부
5	05	구매부

### DS\_CBO\_TITLE

### DS\_CBO\_TITLE

순번	Column	Description	Length	Update Callback Function
1	<input type="checkbox"/> title_code	직책코드	2	
2	<input type="checkbox"/> title_name	직책이름	30	

DS\_CBO\_TITLE

순번	title_code	title_name
1	01	사원
2	02	대리
3	03	과장
4	04	차장
5	05	부장

URL XDATASET\_BASEURL ID URL

XDATASET\_BASEURL webapp/index.js

XDATASET\_BASEURL : './', //

“Transaction” “xTranMap”

### xTranMap Info

순번	xTranMapID	URL	Comment
1	TR_SELECT	sample/selectView.do	조회
2	TR_UPDATE_UTIL	sample/updateView.do	업데이트(유틸사용)

### xTranMap I/O

순번	xDataSetID	Title	Length	TR_SELECT		TR_UPDATE_UTIL	
				입력	출력	입력	출력
1	DS_REQ	조회기준 데이터셋		ALL			
2	▷ EMP_NO	직원번호	6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	▷ EMP_NAME	직원이름	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	▷ EMP_AGE	직원나이	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	DS_RES	직원정보			CLEAR	UPDATE	
6	▷ EMP_NO	직원번호	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	▷ EMP_NAME	직원이름	20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	▷ EMP_AGE	직원나이	10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	▷ DEPT_CODE	부서코드	2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	▷ TITLE_CODE	직급코드	2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	▷ MAIL_ADDR	메일주소	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	▷ PROCESS_RESULT	처리결과	30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

①

직원번호  직원이름  직원나이

조회    추가    삭제    저장

②

No	직원번호	직원이름	직원나이	부서코드	직급코드	
1	100226	hkjung	25	03:재무부 ④	01:사원 ⑤	hkjung@gm.
2	100312	shyou	29	04:영업부	01:사원	shyou@gma
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9	100118	dkyou	40	05:구매부	03:과장	dkyou@gma
10	100112	khkwan	42	02:기획부	04:차장	khkwan@grr

③

직원 정보

직원번호       직원부서

직원이름       직원직책

직원나이       메일주소

거래 처리 결과

mapid       recv\_userheader

result       recv\_msg

recv\_code

1	DS_EMP_AGE (EMP_NO, EMP_NAME, EMP_AGE).
2	DS_EMP_INFO
3	DS_EMP_INFO
4	DS_CBO_DEPT PICKLIST
5	DS_CBO_TITLE PICKLIST

직원번호  직원이름  직원나이

조회
추가
삭제
저장

No	직원번호	직원이름	직원나이	부서코드	직급코드	
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3	100133	yjkim	31	02:기획부	01:사원	yjkim@gmai
4	100218	jtkim	33	05:구매부	02:대리	jtkim@gmail
5	100124	kjlim	35	01:총무부	02:대리	kjlim@gmail.
6	100212	yskim	36	03:재무부	02:대리	yskim@gmai
7	100319	ihbang	36	05:구매부	03:과장	ihbang@gm.
8	100325	jwkim	37	01:총무부	03:과장	jwkim@gma
9	100118	dkyou	40	05:구매부	03:과장	dkyou@gma
10	100112	khkwan	42	02:기획부	04:차장	khkwan@grr

직원 정보

직원번호  직원부서   
 직원이름  직원직책   
 직원나이  메일주소

거래 처리 결과

mapid  rcv\_userheader   
 result  rcv\_msg   
 rcv\_code

	Name	
	btn_search	.
가	btn_insert	가 .
	btn_delete	.
	btn_updateUtil	.

UI

“on\_mouseup”

```

/*
*
*/
    
```

```
function btn_search_on_mouseup(objInst)
{
    screen.requestsubmit("TR_SELECT", true);
}

/*
 * 가
 * 가
 */
function btn_insert_on_mouseup(objInst)
{
    grid.additem();
}

/*
 *
 *
 */
function btn_delete_on_mouseup(objInst)
{
    grid.deletecheckedrow();
}

/*
 *
 *
 */
function btn_updateUtil_on_mouseup(objInst)
{
    screen.requestsubmit("TR_UPDATE_UTIL", true);
}

/*
 * mapid : requestsubmit() , MAP ID
 * result : (Rmeart )
 * recv_userheader : setUserHeader
 * recv_code : setMessage() setErrorMessage()
 * recv_msg : setMessage() setErrorMessage()
 */
function screen_on_submitcomplete(mapid, result, recv_userheader, recv_code,
recv_msg)
{
    //
    fldMapId.settext(mapid);
    fldResult.settext(result);
    fldUserHeader.settext(recv_userheader);
    fldRecvCode.settext(recv_code);
    mulRecvMsg.settext(recv_msg);
}
```

xFrame5

xDataSet5

- 
- 
- 
- Service
- DAO
- ServiceImpl
- SQL

Controller

xDataSet5

1. simple : xDataSet5 DB setData API
2. view : xDataSet5 xdataset5spring.jar XFrame5Util  
xdataset5util.jar XFrame5View

	<b>xDataSet5</b>		
(simple)	new	setData API	returnData API
view	XFrame5util	XFrame5util	XFrame5util

Controller

		<b>Controller</b>
1	simple	SimpleXDataSet5Contoller
2	view	ViewXDataSet5Contoller

Controller



1	Service interface
3	String
5	Map
7	VO

## DAO

### DAO

```
@Repository("exampleDAO")
public class ExampleDAO extends EgovAbstractMapper {

    public List<Map<String, Object>> selectMapListByStr (String strEmpName)
throws Exception {
        return selectList("sampleMapper.selectMapListByStr", strEmpName);
    }

    public List<Map<String, Object>> selectMapListByMap (Map<String, Object>
empMap) throws Exception {
        return selectList("sampleMapper. selectMapListByMap", empMap);
    }

    public List<EmpInfoVO> selectVOListByVO(EmpInfoVO empInfoVO) throws
Exception {
        return selectList("sampleMapper. selectVOListByVO", empInfoVO);
    }
}
```

1	class	DAO	Repository
2		DAO	DAO
4~14	SQL	id	DB

## ServiceImpl

### ServiceImpl

```
@Service("exampleService")
public class ExampleServiceImpl extends EgovAbstractServiceImpl
implements ExampleService{

    @Resource(name = "exampleDAO")
```

```

private ExampleDAO exampleDAO;

@Override
public List<Map<String, Object>> selectMapListByStr(String
strEmpName)throws Exception {
    return exampleDAO.selectMapListByStr(strEmpName);
}

@Override
public List<Map<String, Object>> selectMapListByMap (
    Map<String, Object> empMap)throws Exception {
    return exampleDAO.selectMapListByMap(empMap);
}

@Override
public List<EmpInfoVO> selectVOListByVO(ExampleVO exampleVO)throws
Exception {
    return exampleDAO.selectVOListByVO(exampleVO);
}
}

```

1	class	Service	.
2 ~ 3	Service		.
5 ~ 6	ServiceImpl	DAO	.
8 ~ 11	String		.
13 ~ 17	Map		.
19 ~ 22	VO		.

## SQL

### SQL

```

<mapper namespace="sampleMapper">

    <select id="selectMapListByStr" parameterType="String" resultType="Map">
        SELECT
            EMP_NAME, EMP_NO, EMP_AGE, DEPT_CODE, TITLE_CODE, MAIL_ADDR
        FROM
            EMP_INFO
        WHERE 1=1
            <if test="_parameter != null and _parameter != ''">
                AND EMP_AGE >= #{_parameter}
            </if>
        ORDER BY
    
```

```

        EMP_AGE ASC
    </select>

    <select id="selectMapListByMap" parameterType="Map" resultType="Map">
    SELECT
        EMP_NAME, EMP_NO, EMP_AGE, DEPT_CODE, TITLE_CODE, MAIL_ADDR
    FROM
        EMP_INFO
    WHERE 1=1
        <if test=" EMP_NO != null and EMP_NO != ''">
            AND EMP_NO = #{EMP_NO}
        </if>
        <if test=" EMP_NAME != null and EMP_NAME != ''">
            AND EMP_NAME = #{EMP_NAME}
        </if>
        <if test=" EMP_AGE != null and EMP_AGE != ''">
            AND EMP_AGE >= #{EMP_AGE}
        </if>
    ORDER BY
        EMP_AGE ASC
    </select>

    <select id="selectV0List" parameterType="empInfoV0"
resultType="empInfoV0">
    SELECT
        EMP_NAME, EMP_NO, EMP_AGE, DEPT_CODE, TITLE_CODE, MAIL_ADDR
    FROM
        EMP_INFO
    WHERE 1=1
        <if test=" EMP_NAME != null and EMP_NAME != ''">
            AND EMP_NAME = #{EMP_NAME}
        </if>
        <if test=" EMP_AGE != null and EMP_AGE != ''">
            AND EMP_AGE >= #{EMP_AGE}
        </if>
        <if test="EMP_AGE != null and EMP_AGE != ''">
            AND EMP_AGE >= #{EMP_AGE}
        </if> ORDER BY
        EMP_AGE ASC
    </select>

```

1	DAO namespace
3	DAO id String Map
4 ~ 13	SELECT Query ' #{ } ' if

16	DAO	id	Map	.
17 ~ 32	SELECT	Query	가 null	if
35	DAO	id	emplInfoVO	.
36 ~ 50	SELECT	Query	가 null	if

VO sql-mapper-config.xml alias 가 .

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE configuration PUBLIC "-//mybatis.org//DTD Config 3.0//EN"
"http://mybatis.org/dtd/mybatis-3-config.dtd">

<configuration>
  <typeAliases>
    <typeAlias alias="egovMap"
type="egovframework.rte.psl.dataaccess.util.EgovMap"/>
    <typeAlias alias="searchVO"
type="egovframework.example.sample.service.SampleDefaultVO"/>
    <typeAlias alias="sampleVO"
type="egovframework.example.sample.service.SampleVO"/>
  </typeAliases>
</configuration>
```

xDataSet5 (simple) controller .

- Controller

## Controller

HttpServletRequest, HttpServletResponse XDataSet5 .

```
// XDataSet5
XDataSet5 xDataSet5 = new XDataSet5(request, response);
```

xDataSet5 setData API 가 .



```

    Map<String, Object> empMap = XFrame5Util.getDataMap(reqMap, "DS_REQ",
0);
    reqMap          Row          Map          .
3. getDataBean() : VO
    ExampleVO exampleVO = (ExampleVO) XFrame5Util.getDataBean(reqMap,
"DS_REQ", 0, ExampleVO.class);
    reqMap          Row          VO          .

```

XFrame5Util setOutputData API

ModelMap

가

```
XFrame5Util.setOutputData("DS_RES", empList1, model);
```

Response

```

xdataset5spring XFrame5View          response          return
"xFrame5View"  ID          .

```

```
xDataSet5.returnData(); // response
```

ViewXDataSet5Contoller.java

## dispatcher-servlet.xml

**xframe5view** 가

```
xFrame5View          xDataSet5          response          View
```

```

XDataSet5 xDataSet5Util          xframe5view
beanNameViewResolver 가

```

```

<!-- dispatcher-servlet.xml 가 -->
<bean id="xFrame5View" class="xdataset5spring.XFrame5View"/>

```

**BeanNameViewResolver** 가

xFrame5View

```
<!-- dispatcher-servlet.xml      가 -->
<bean class="org.springframework.web.servlet.view.BeanNameViewResolver">
  <property name="order" value="0"/>
</bean>
```

## spring-security

```
spring security      xFrame5
. spring security    .
```

- spring security
- CSRF TOKEN

### Spring security

spring security : egovframework/spring/context-security.xml

```
spring security 가      xFrame5      security
```

```
<!--SPRING SECURITY      -->
<http pattern="/resources/**" security="none" />
<http pattern="/XExcelDownload" security="none" />
<http pattern="/XExcelUpload" security="none" />
<http pattern="/XFileDownload" security="none" />

<http auto-config="true" use-expressions="true">
  <form-login
    login-processing-url="/security/login"
    login-page="/security/loginPage.do"
    default-target-url="/xframe5.do"
  />

  <!-- CSRF(Cross-site request forgery)      :      false -->
  <csrf disabled="false" />

  <!-- url      -->
  <intercept-url pattern="/security/**" access="permitAll" />
  <intercept-url pattern="/**" access="hasAnyRole('ROLE_USER')" />

  <!-- X-FRAME-OPTIONS -->
  <headers>
    <frame-options policy="SAMEORIGIN"/>
  </headers>
</http>

<authentication-manager>
```

```
<authentication-provider>
  <user-service>
    <user name="user" password="user" authorities="ROLE_USER"/>
    <user name="guest" password="guest" authorities="ROLE_GUEST"/>
    <user name="admin" password="admin" authorities="ROLE_ADMIN"/>
  </user-service>
</authentication-provider>
</authentication-manager>
```

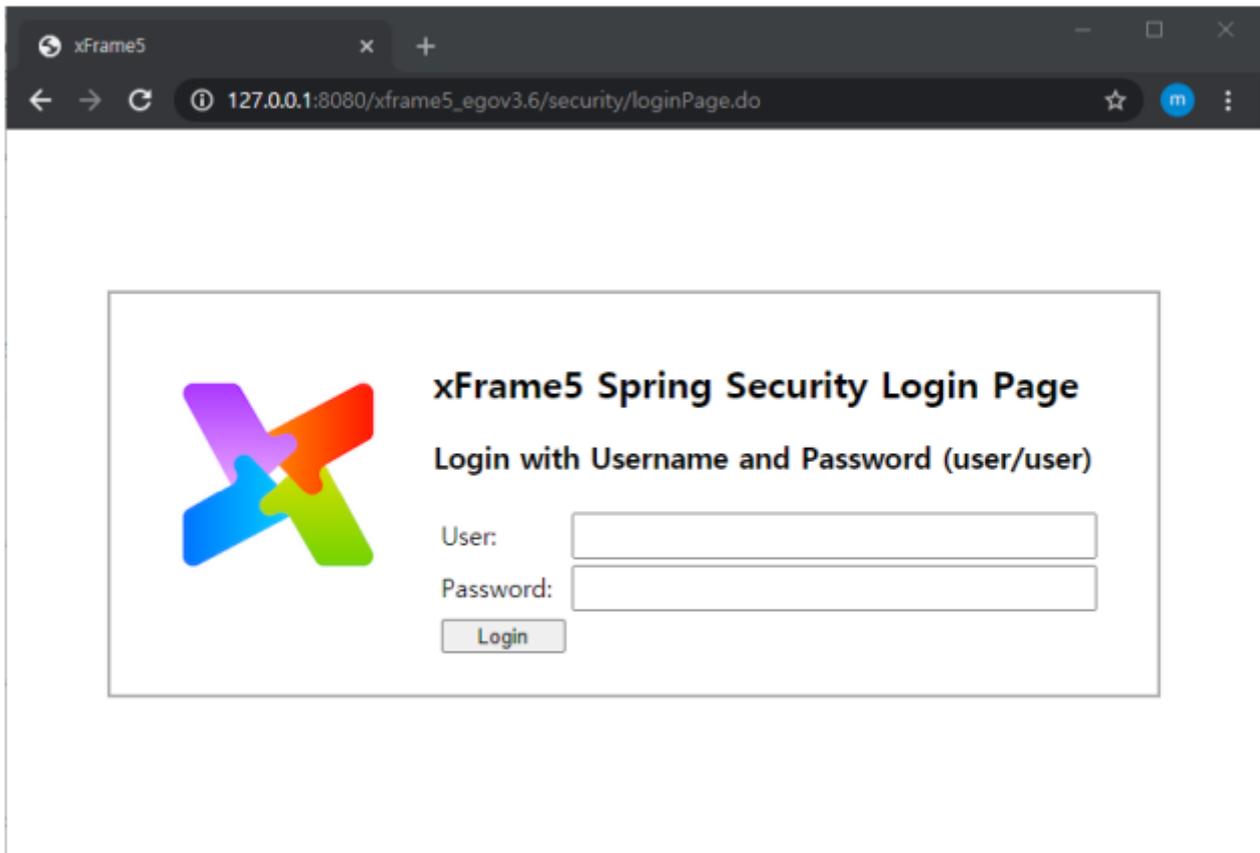
2 ~ 5	Spring security /resources/ : /XExcelDownload : /XExcelUpload :
8 ~ 11	security ( ) login-processing-url= URL login-page= default-target-url= URL
15	CSFR spring security true
18 ~ 19	URL
22 ~ 24	X-FRAME-OPTIONS ClickJacking DENY : frame .\SAMEORIGIN : origin frame ALLOW-FROM : origin frame xFrame5 TAB SAMEORIGIN ( 403 ) ( )
27 ~ 35	

( WEB-INF/jsp/securityLoginPage.jsp )

```
<form name="f" action="./login" method="POST">
  <input name="{_csrf.parameterName}" type="hidden"
value="{_csrf.token}"/>
  <table class="content">
    <tbody>
      <tr>
        <td style="width: 20%; height: 24px;">User:</td>
        <td style="width: auto;"><input type="text"
name="username" value="" class="content"></td>
      </tr>
      <tr>
        <td>Password:</td>
        <td><input type="password" name="password"
class="content"></td>
```

```
        </tr>
        <tr>
            <td><input name="submit" type="submit" value="Login"
class="content"></td>
            <td>
                <c:if test="{not empty
SPRING_SECURITY_LAST_EXCEPTION}">
                    <font color="red" class="content">
                        :
                    </font>
                    <:remove
var="SPRING_SECURITY_LAST_EXCEPTION" scope="session"/>
                </c:if>
            </td>
        </tr>
    </tbody>
</table>
</form>
```

( [http://127.0.0.1:8080/xframe5\\_egov3.6/xframe5.do](http://127.0.0.1:8080/xframe5_egov3.6/xframe5.do) )



## CSRF TOKEN

xFrame5

csrf

가

```

@RequestMapping("/xframe5.do")
public Object xframe5(HttpServletRequest request, HttpServletResponse response, ModelMap model) {

    try {
        // Spring-security CSRF
        CsrfToken csrfToken =
(CsrfToken)request.getAttribute(CsrfToken.class.getName());
        if (csrfToken != null) {
            // UI
            Cookie csrfTokenCK = new
Cookie("_csrf.token",csrfToken.getToken());
            Cookie csrfParameterCK = new Cookie("_csrf.parameterName",
csrfToken.getParameterName());
            Cookie csrfTokenHeaderCK = new Cookie("_csrf.headerName",
csrfToken.getHeaderName());
            response.addCookie(csrfTokenCK);
            response.addCookie(csrfParameterCK);
            response.addCookie(csrfTokenHeaderCK);
        }
    } catch (Exception e) {
        e.printStackTrace();
    }

    return "index";
}
    
```

6	CSRF
7 ~ 14	가 Null response 가
20	index.jsp

**UI TOKEN**

xFrame5

API

post

< >

\* CSRF : factory.getcookie() API

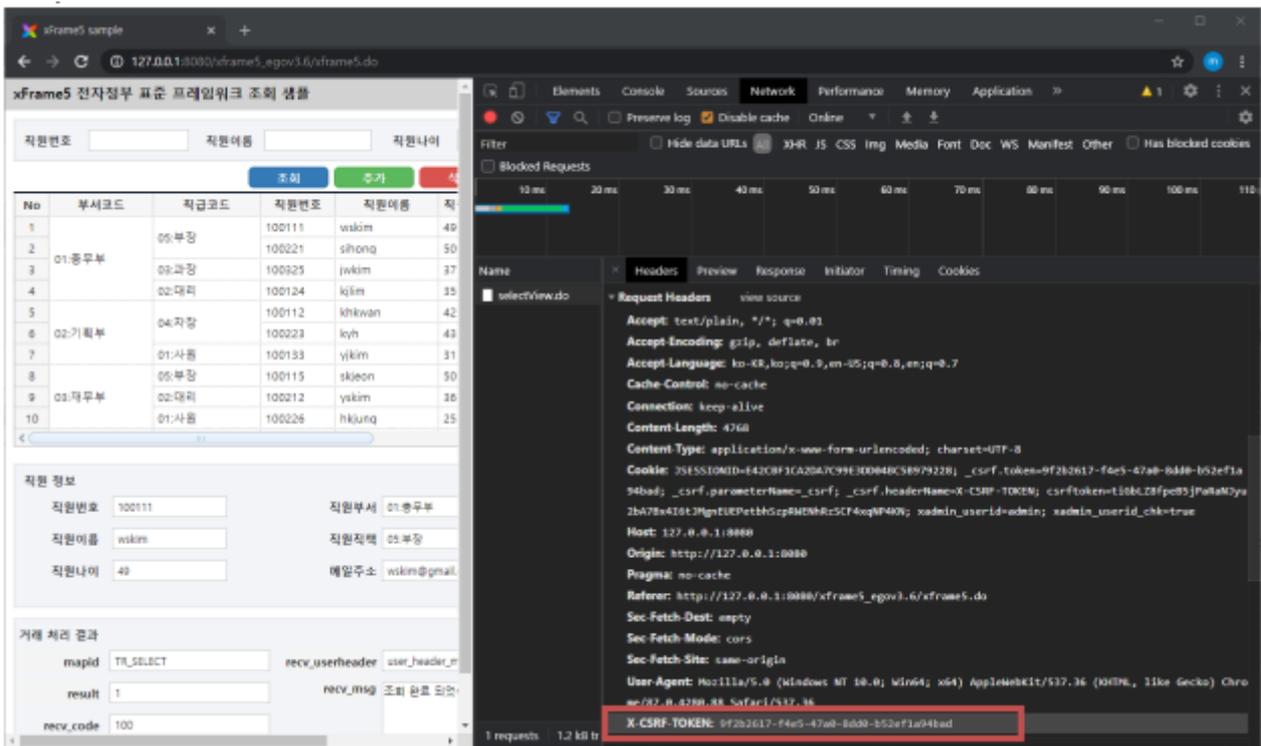
```

var token, tokenHeader, tokenParameter;
token = factory.getcookie("_csrf.token"); //
tokenHeader = factory.getcookie("_csrf.headerName"); //
okenParameter = factory.getcookie("_csrf.parameterName"); //

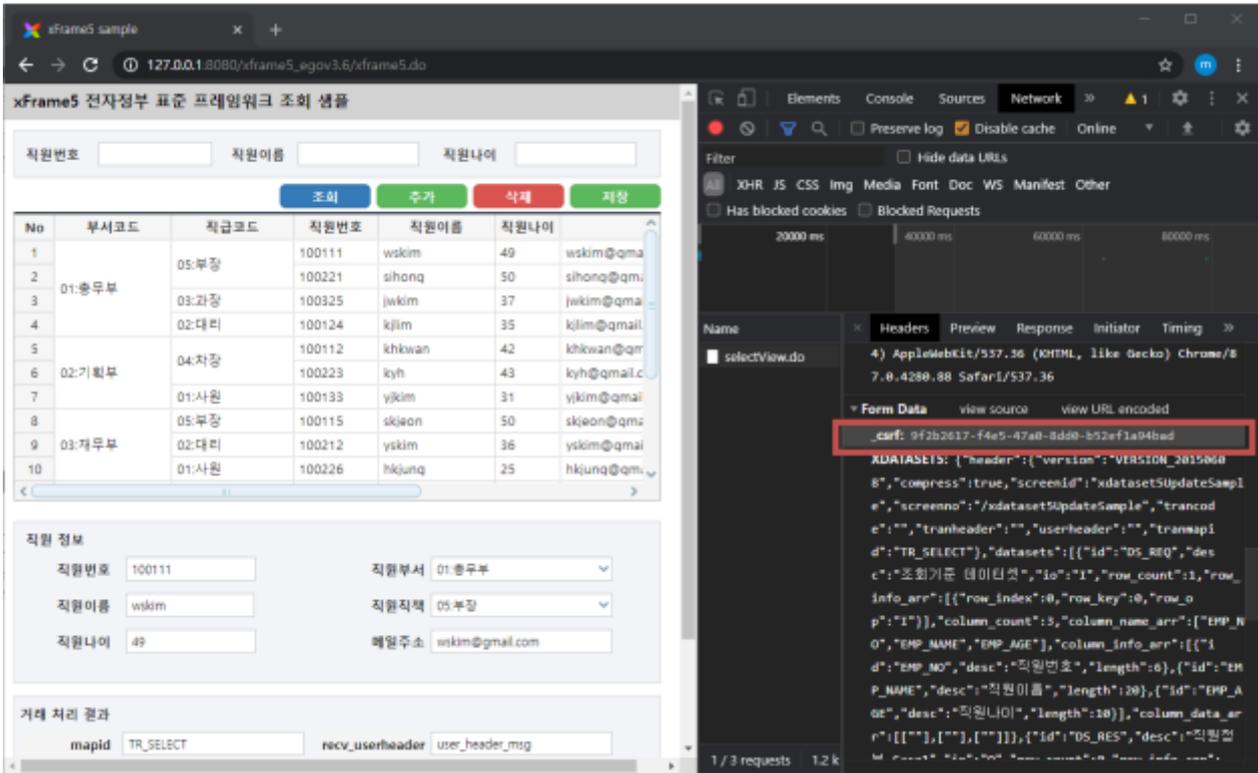
1. request ( ) :
factory.setxtranhttpheader() API
var strRequestHeader = {};
strRequestHeader[tokenHeader] = token;
factory.setxtranhttpheader(strRequestHeader);
2. post ( ) :
factory.setxtranpostdata() API
var obj_post_data = {};
obj_post_data[tokenParameter] = token;
factory.setxtranpostdata(obj_post_data);

// : screen.requestsubmit() API
screen.requestsubmit("TR_SELECT", true);
    
```

<request >



<post >



## XDataSet Encoding

xFrame5      XDataSet      Encoding

- XTRAN\_DATAENCODING

## XTRAN\_DATAENCODING

xFrame5      XTRAN\_DATAENCODING      가

true, false      가      false

true      xFrame5      XDataSet      BASE64

[      ]

```
XTRAN_DATAENCODING : false
XDATASET5:{"header":{"version":"VERSION_20150608","compress":true,"screenid":"SvnRepositoryList",
screenno:"/EXT/SVN/SvnRepositoryList","trancode":"","
.....

XTRAN_DATAENCODING : true
XDATASET5:JTdCJTIIyaGVhZGVyJTIIyJTNBJTdCJTIIydmVyc2lubiUyMiUzQSUyMlZFUlNJT05fMjA
AxNTA2MD
g1MjI1MkMlMjJjY2IwcmVzcyUyMiUzQXRYdWU1MkMlMjJzY3JlZW5pZCUyMiUu.....
```

xdataset5.jar

Decode

## HtmlTagFilter(XSS Filter)

xFrame5 XSS( )

- XTRAN\_XSSENCODING

### XTRAN\_XSSENCODING

XTRAN\_XSSENCODING

xFrame5

true, false 가

false

true

- '<' : '&lt;'
- '>' : '&gt;'
- '&' : '&amp;'
- '"' : '&quot;'
- '\'' : '&apos;'

XTRAN\_XSSENCODING

가

XDataSet

BASE64

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