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DRM	1
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	4
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GRID_EXCELUPLOAD_METHODTYPE	GRID_EXCELUPLOAD_METHODTYPE	GRID_EXCELUPLOAD_METHODTYPE
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WAS		
<ul style="list-style-type: none"> POST WAS HTTP WAS xFrame5 XEXCEL 가 () 	<ul style="list-style-type: none"> xFrame5 XEXCEL xFrame5 xFrame5 가 	<ul style="list-style-type: none"> XLSX xFrame5 XEXCEL 가 ()
GRID_EXCELDOWNLOAD_METHODTYPE	GRID_EXCELDOWNLOAD_METHODTYPE	GRID_EXCELDOWNLOAD_METHODTYPE
<ul style="list-style-type: none"> : 0 () 	<ul style="list-style-type: none"> : 1 	<ul style="list-style-type: none"> : 2
XEXCEL_DOWNLOAD_URL <ul style="list-style-type: none"> XExcelDownload URL - ". /xframe5/XExcelDownload" 		
<ul style="list-style-type: none"> XExcelUpload 		<ul style="list-style-type: none">


```

import java.net.URLDecoder;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;

import javax.servlet.ServletContext;

import org.apache.commons.fileupload.FileItem;
import org.apache.commons.fileupload.disk.DiskFileItemFactory;
import org.apache.commons.fileupload.servlet.ServletFileUpload;
import org.apache.commons.io.FilenameUtils;
import org.apache.commons.io.output.DeferredFileOutputStream;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

public class XDrmUtil extends HttpServlet
{
    private static final long serialVersionUID = 3347918932345852889L;

    /*****
    *
    *****/
    protected final Log logger = LogFactory.getLog(getClass());

    //
    // String tempDirAbsolutePath = "C:\\xFrame5\\temp";

    //
    // String saveBaseDirAbsolutePath = "C:\\xFrame5\\temp";

    int maxMemoryFileSize = 10; // maximum memory file
size
    int maxFileSize = 1000 * 1024 * 1024; // maximum file size
(1000MB)

    /**
    *
    * @return
    */
    public void logMsg(String msg)
    {
        // logger.info(msg);
        System.out.println(msg);
    }

    /**
    *
    * (getContextRootPath
    * @return
    */
    public void setTempAndSaveDirPath(HttpServletRequest request)
    {

```

```

String contextRootAbsolutePath;

// Web Application
contextRootAbsolutePath = getContextRootPath(request);

if (contextRootAbsolutePath.endsWith(File.separator) == false) {
    contextRootAbsolutePath += File.separator;
}

logMsg("contextRootPath = [" + contextRootAbsolutePath + "]);

// ( )
// tempDirAbsolutePath = "C:\\xFrame5\\temp";
tempDirAbsolutePath = contextRootAbsolutePath + "temp";
logMsg("tempDirAbsolutePath = [" + tempDirAbsolutePath + "]);

// ( )
// saveBaseDirAbsolutePath = "C:\\xFrame5\\temp";
saveBaseDirAbsolutePath = contextRootAbsolutePath + "temp";
logMsg("saveBaseDirAbsolutePath = [" + saveBaseDirAbsolutePath +
"]");
}

/**
 * Request KEY/VALUE
 * DRM / DRM /
 * @param paramMap Request KEY/VALUE
 * @param saveFileAbsolutePath
 * @return DRM /
 */
public String drmProcess(HashMap<String, String> paramMap, String
saveFileAbsolutePath)
{
    String returnFileAbsolutePath;

    // TODO: DRM
    returnFileAbsolutePath = saveFileAbsolutePath;

    return returnFileAbsolutePath;
}

/*****
 *
 *****/
String errorMsg = ""; // error message
String fileName = ""; // uplaod file name
String browserType = ""; // browser type

public void doGet(HttpServletRequest request, HttpServletResponse
response) {
    doPost(request, response);
}

```



```

    }

    public void doPost(HttpServletRequest request, HttpServletResponse
response) {
        ServletFileUpload        uplaodHandler = null;           // file
uplaod handler
        List<?>                    fileItemList = null;           // file item
list
        FileItem                    fileItem = null;               // file item
String
                                saveFileAbsolutePath = "";

        byte[]                        buffer = null;
int
                                numRead = -1;

        FileInputStream            fis = null;
ServletOutputStream            sos = null;

        // POST
                                HashMap
HashMap<String, String> paramMap = new HashMap<String, String>();

//
//
                                request
                                ,
                                ,

String
                                returnFileAbsolutePath = "";

        logMsg("XDrmUtil Start -----
-----");

        try {
            // Get Response Output Stream
            sos = response.getOutputStream();

            setTempAndSaveDirPath(request);

            // Set Response Common Header
            setResponseCommonHeader(request, response);

            // Get Upload File Processor Object
            uplaodHandler = getFileUploadProcessor();
            logMsg("Success to create a file upload handler");

            // Parse request Data
            fileItemList = uplaodHandler.parseRequest(request);

            // Get Parameter Key/Value Map
            getParamValueMap(fileItemList, paramMap);

            // Process File Data
            Iterator<?> iter = fileItemList.iterator();
            while (iter.hasNext()) {
                fileItem = (FileItem)iter.next();
            }
        }
    }
}

```

```

        // Skip Normal Form Field Item
        if (fileItem.isFormField()) { continue; }

        // Save Upload File Multipart Data
        saveFileAbsolutePath = handleUploadFile(fileItem,
paramMap);
        if (saveFileAbsolutePath == null) {
            errorMsg("saveFileAbsolutePath is null, errorMsg = " +
errorMsg);
            returnErrorMsg(response, sos, errorMsg);
            return;
        }

        break;
    }

    // DRM / returnFileAbsolutePath

    returnFileAbsolutePath = drmProcess(paramMap,
saveFileAbsolutePath);

    // Create Byte Array For Read File
    buffer = new byte[4096];

    // Create File Object For Return File Path
    File file = new File(returnFileAbsolutePath);
    long fileSize = file.length();

    // Set HTTP Response HTTP Header
    setResponseHeader(response, fileName, fileSize);

    // Read Return File Content & Write File Content to Output
Stream
    fis = new FileInputStream(new File(returnFileAbsolutePath));
    while((numRead = fis.read(buffer, 0, 4096)) != -1){
        sos.write(buffer, 0, numRead);
    }

    sos.flush();
}
catch (Exception e) {
    errorMsg(e.getMessage());
    e.printStackTrace();

    // Return Error Message
    try { returnErrorMsg(response, sos, e.getMessage()); }
    catch (Exception ignore) {}
}
catch (Throwable e) {
    errorMsg(e.getMessage());
    e.printStackTrace();
}

```

```

    }
    finally {
        // Close File Input Stream
        if (fis != null) {
            try { fis.close(); }
            catch (Exception ignore) {}
        }

        // Close Servlet Output Stream
        if (sos != null) {
            try { sos.close(); }
            catch (Exception ignore) {}
        }

        logMsg("delete " + saveFileAbsolutePath);
        deleteFile(saveFileAbsolutePath);
        logMsg("delete " + returnFileAbsolutePath);
        deleteFile(returnFileAbsolutePath);
    }
}

public void returnErrorMsg(HttpServletResponse response,
ServletOutputStream sos, String errorMsg) throws IOException
{
    //
    //      StartDelimiter +          + EndDelimiter
    String   WFM_DATASTART_DEL    = String.valueOf((char)0x1C) +
"xFrame5ErrorS" + String.valueOf((char)0x1C);    // data start indicator
    String   WFM_DATAEND_DEL      = String.valueOf((char)0x1F) +
"xFrame5ErrorE" + String.valueOf((char)0x1F);    // data end indicator

    String errMsg = WFM_DATASTART_DEL + errorMsg + WFM_DATAEND_DEL;

    byte[] arrReturn = errMsg.getBytes("UTF-8");

    response.setContentType("text/html");
    response.setHeader("Content-Length",
String.valueOf(arrReturn.length));

    sos.write(arrReturn);
}

// request                                KEY/VALUE
HashMap
public void getParamValueMap(List<?> fileItemList, HashMap<String,
String> paramMap) throws UnsupportedEncodingException
{
    FileItem          fileItem = null;                // file item

    // request                                KEY/VALUE
    HashMap

```

```
Iterator<?> iter1 = fileItemList.iterator();
while (iter1.hasNext()) {
    fileItem = (FileItem)iter1.next();

    //      Form                paramMap HashMap
    if (fileItem.isFormField()) {
        String fieldName = fileItem.getFieldName();
        String fieldValue = fileItem.getString();

        // EXCEL_GLOBAL_INFO
(EXCEL_GLOBAL_INFO                )
        fieldValue = URLDecoder.decode(fieldValue, "UTF-8");
        paramMap.put(fieldName, fieldValue);

        logMsg("fieldName = [" + fieldName + "], fieldValue = [" +
fieldValue + "]);
    }
}

public void setResponseCommonHeader(HttpServletRequest request,
HttpServletRequest response) throws UnsupportedEncodingException
{
    String          origin = "";
    boolean         bCorsHeader = true;                // cors_header

    browserType = getBrowserType(request);
    logMsg("browserType: " + browserType);

    // Set cross domain response header
    response.setHeader("Access-Control-Allow-Credentials", "true");
    response.setHeader("Access-Control-Allow-Headers", "X-Requested-
With");

    // a String containing the value of the requested header, or null if
the request does not have a header of that name
    origin = request.getHeader("Origin");
    logMsg("origin = " + origin);

    if (origin == null) {
        response.setHeader("Access-Control-Allow-Origin", "*");
    }
    else {
        response.setHeader("Access-Control-Allow-Origin", origin);
    }
}

public void setResponseHeader(HttpServletRequest response, String
saveAsFileName, long fileSize) throws UnsupportedEncodingException
{
```

```
response.setHeader("Content-Length", String.valueOf(fileSize));
response.setHeader("Content-Transfer-Encoding", "binary");
response.setHeader("Accept-Ranges", "bytes");
response.setHeader("Set-Cookie", "fileDownload=true; path=/");

/*
// "Content-disposition: attachment"
//
"      가
if(userAgent.indexOf("Safari") > -1) {
    response.setHeader("Content-Disposition", "attachment;
filename=" + excelFileName);
} else {
    response.setHeader("Content-Disposition", "attachment;
filename*=UTF-8'" + excelFileName);
}
*/

if (browserType.contains("IE")) {
    saveAsFileName = URLEncoder.encode(saveAsFileName,
"UTF-8").replaceAll("\\+", "%20");
    response.setHeader("Content-Disposition", "attachment;filename="
+ saveAsFileName + ";");
}
else if (browserType.contains("FIREFOX")) {
    saveAsFileName = new String(saveAsFileName.getBytes("UTF-8"),
"ISO-8859-1");
    response.setHeader("Content-Disposition", "attachment;
filename=\"\" + saveAsFileName + "\"");
}
else if (browserType.contains("OPERA")) {
    saveAsFileName = new String(saveAsFileName.getBytes("UTF-8"),
"ISO-8859-1");
    response.setHeader("Content-Disposition", "attachment;
filename=\"\" + saveAsFileName + "\"");
}
else if (browserType.contains("CHROME")) {
    saveAsFileName = new String(saveAsFileName.getBytes("UTF-8"),
"ISO-8859-1");
    response.setHeader("Content-Disposition", "attachment;
filename=\"\" + saveAsFileName + "\"");
}
else if (browserType.contains("SAFARI")) {
    response.setHeader("Content-Disposition", "attachment;
filename=" + saveAsFileName);
}
}

public String getBrowserType(HttpServletRequest request) {
    String browser = "";
    String userAgent = request.getHeader("User-Agent");
```

```
logMsg("user-agent:" + userAgent);

if (userAgent.indexOf("Trident") > 0 || userAgent.indexOf("MSIE") >
0) {
    browser = "IE";
}
else if (userAgent.indexOf("Opera") > 0) {
    browser = "OPERA";
}
else if (userAgent.indexOf("Firefox") > 0) {
    browser = "FIREFOX";
}
else if (userAgent.indexOf("Safari") > 0) {
    if (userAgent.indexOf("Chrome") > 0) {
        browser = "CHROME";
    }
    else {
        browser = "SAFARI";
    }
}

return browser;
}

public String getContextRootPath(HttpServletRequest request)
{
    String contextRootDirAbsolutePath = "";
    String resPath = "";
    String temPath = "";
    ServletContext context = request.getServletContext();

    // get context real path
    contextRootDirAbsolutePath = context.getRealPath("/");

    // Spring Boot    getRealPath()
    if (contextRootDirAbsolutePath == null) {
        temPath =
XDrmUtil.class.getProtectionDomain().getCodeSource().getLocation().getPath()
;

        //    file:/
        resPath = temPath.substring(temPath.indexOf(":") + 2);

        resPath = resPath.substring(0, resPath.lastIndexOf("/"));
        resPath = resPath.substring(0, resPath.lastIndexOf("/"));
        resPath = resPath.substring(0, resPath.lastIndexOf("/"));
        resPath = resPath.substring(0, resPath.lastIndexOf(".")); //

        resPath += "/";

        contextRootDirAbsolutePath = resPath;
    }
}
```

```
    }

    return contextRootDirAbsolutePath;
}

// get a file upload process
private ServletFileUpload getFileUploadProcessor()
{
    // create a new file item factory
    DiskFileItemFactory factory = new DiskFileItemFactory();

    // create a new file object for a temporary directory
    File tempDir = new File(tempDirAbsolutePath);

    // create a temporary directory
    if (!tempDir.exists()) {
        tempDir.mkdirs();
    }

    // set a temporary directory
    factory.setRepository(tempDir);

    // set a maximum memory file size
    factory.setSizeThreshold(maxMemoryFileSize);

    // create a servlet file upload object using a factory
    ServletFileUpload upload = new ServletFileUpload(factory);

    // set a maximum file size
    upload.setSizeMax(maxFileSize);

    // set header encoding charset for hangul file name
    upload.setHeaderEncoding("UTF-8");

    return upload;
}

//
private String getRandomFileName()
{
    return java.util.UUID.randomUUID().toString().replace("-", "");
}

//
public void makeDirUsingFilePath(String fileAbsolutePath)
{
    File oFile = new File(fileAbsolutePath);
    File oDir = oFile.getParentFile();

    // create a directory
    if (!oDir.exists()) {
```

```
        oDir.mkdirs();
    }
}

//
public boolean deleteFile(String fileAbsolutePath)
{
    boolean bDeleteSuccess = false;
    File    file;

    try {
        file = new File(fileAbsolutePath);

        //
        if (file.exists()) {
            bDeleteSuccess = file.delete();
        }
    }
    catch (Exception e) {
        logMsg("deleteUploadFile e = " + e.getMessage());
    }
    catch (Throwable ex) {
        logMsg("deleteUploadFile ex = " + ex.getMessage());
    }

    return bDeleteSuccess;
}

// temp
public void checkTempFileDeleted(FileItem fileItem)
{
    String    tempFileAbsolutePath = "";
    File     tempFile = null;
    String    tempFileName;

    DeferredFileOutputStream dfos = null;

    try {
        dfos = (DeferredFileOutputStream)fileItem.getOutputStream();

        tempFileName = dfos.getFile().getName(); // temp

        tempFileAbsolutePath = tempDirAbsolutePath + File.separator +
tempFileName;

        tempFile = new File(tempFileAbsolutePath);
        if (tempFile.exists()) {
            //
            logMsg("Failed to delete file in the temp folder, path = " +
tempFileAbsolutePath);
        }
        else {
```



```

        logMsg("Successfully delete files in the temp folder, path =
" + tempFileAbsolutePath);
    }
}
catch (Exception e) {
    logMsg("checkTempFile e = " + e.getMessage());
}
catch (Throwable ex) {
    logMsg("checkTempFile ex = " + ex.getMessage());
}
finally {
    if (dfos != null) {
        try { dfos.close(); }
        catch (Exception ignore) {}
    }
}
}

// FileItem                                , FileItem

public String handleUploadFile(FileItem fileItem, HashMap<String,
String> paramMap) throws Exception, Throwable
{
    // FileItem
    String                saveFileAbsolutePath = "";

    // FileItem            HTML FILE NAME
    String                filePath = fileItem.getName();

    fileName = FilenameUtils.getName(filePath);

    String                fileNameExt = FilenameUtils.getExtension(fileName);

    logMsg("filePath = " + filePath);
    logMsg("fileName = " + fileName);
    logMsg("fileNameExt = " + fileNameExt);

    logMsg("getContentType = " + fileItem.getContentType());
    logMsg("getSize = " + fileItem.getSize());

    //                                (saveBaseDirAbsolutePath)

    saveFileAbsolutePath = saveBaseDirAbsolutePath + File.separator +
getRandomFileName();
    logMsg("saveFileAbsolutePath = " + saveFileAbsolutePath);

    //

    mkdirUsingFilePath(saveFileAbsolutePath);

    //                fileItem                                ,                5
    while (true) {

```

```
int    retryCount = 0;

try {
    // FileItem
    fileItem.write(new File(saveFileAbsolutePath));
    break;
}
catch (Exception e) {
    logMsg("Exception Msg = " + e.getMessage());
    retryCount++;

    if (retryCount > 5) {
        logMsg("Fail to wirte a file");
        errorMsg = "Fail to wirte a file";

        //
        deleteFile(saveFileAbsolutePath);

        return null;
    }
    else {
        try { Thread.sleep(1000); }
        catch (InterruptedException ignore) { }
        continue;
    }
}

logMsg("Success To Write File");

// File
fileItem.delete();

// temp
checkTempFileDeleted(fileItem);

//
return saveFileAbsolutePath;
}
```

From:
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