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FileUpload

FileUpload

HTTP Multipart

with_credentials, postdata_encode가

API seturl, addfile, addfileobjectarray, deleteallfile, clearallfilestatus, startupload, stopupload가

API getfilecount, getfilename, getfilesize, getfilebriefsize, getfiledate, getfiletime

API getfilestatus, getfileprogress, getfileresult, getfileresultmsg, getfileresultfilename가

on_listupdate, on_fileprogress, on_filecomplete가

: /HTML5/COMPONENT/FILEUPLOADER/fileuploader_basic

- [fileuploader_basic.xml](#)
- [fileuploader_basic.js](#)
- [fileuploader.jsp.txt](#)
- [fileuploader.jsp](#)

```
//          \technet\project\template\ext\java\fileuploader.jsp.txt
fileuploader.jsp
//          WAS          ,          URL          base_url

var base_url = "http://127.0.0.1:8080/xframe5/fileuploader.jsp";

//
function screen_on_load()
{
    //          URL
    this.uploader_basic.seturl(base_url);
}

// "          가"
```

```
function btn_addfile_on_mouseup(objInst)
{
    this.uploader_basic.addfile();
}

// "
function btn_deleteallfile_on_mouseup(objInst)
{
    //
    this.uploader_basic.deleteallfile();
}

// "
function btn_clearallfilestatus_on_mouseup(objInst)
{
    //
    this.uploader_basic.clearallfilestatus();

    //
    this.UpdateFileStauts(-1);
}

// "
function btn_startupload_on_mouseup(objInst)
{
    this.uploader_basic.startupload();
}

// "
function btn_stopupload_on_mouseup(objInst)
{
    this.uploader_basic.stopupload();
}

//
function UpdateFileStauts(nFileIndex) {
    var count, i;

    //      가 -1
    if (nFileIndex == -1) {
        count = this.uploader_basic.getfilecount();
        for (i = 0; i < count; i++) {
            this.UpdateOneFileStauts(i);
        }
    }
    //      가 -1
    else {
        this.UpdateOneFileStauts(nFileIndex);
    }
}

//
function ReloadFileStatus() {
```

```

var nFileIndex, count;

//
this.grdList.deleteall();

//          Loop          가
count = this.uploader_basic.getfilecount();
for (nFileIndex = 0; nFileIndex < count; nFileIndex++) {
    this.grdList.additem(false, false);

    this.grdList.setitemtextex(nFileIndex, 0,
this.uploader_basic.getfilename(nFileIndex), false);
    this.grdList.setitemtextex(nFileIndex, 1,
this.uploader_basic.getfilesize(nFileIndex), false);
    this.grdList.setitemtextex(nFileIndex, 2,
this.uploader_basic.getfilebriefsize(nFileIndex), false);
    this.grdList.setitemtextex(nFileIndex, 3,
this.uploader_basic.getfiledate(nFileIndex), false);
    this.grdList.setitemtextex(nFileIndex, 4,
this.uploader_basic.getfiletime(nFileIndex), false);

    this.UpdateOneFileStauts(nFileIndex, false);
}

this.grdList.refresh();
}

//
function UpdateOneFileStauts(nFileIndex, bRefresh) {
    this.grdList.setitemtextex(nFileIndex, 5,
this.uploader_basic.getfilestatus(nFileIndex), bRefresh);
    this.grdList.setitemtextex(nFileIndex, 6,
this.uploader_basic.getfileprogress(nFileIndex), bRefresh);
    this.grdList.setitemtextex(nFileIndex, 7,
this.uploader_basic.getfileresult(nFileIndex), bRefresh);
    this.grdList.setitemtextex(nFileIndex, 8,
this.uploader_basic.getfileresultmsg(nFileIndex), bRefresh);
    this.grdList.setitemtextex(nFileIndex, 9,
this.uploader_basic.getfileresultfilename(nFileIndex), bRefresh);
}

////////////////////////////////////
////////////////////////////////////
// EVENT
////////////////////////////////////
////////////////////////////////////

//          (          Drag&Drop          )
function grdList_on_dropfiles(objInst, arrayDropFiles, nDropFileCount)
{
    var    i, fileObj;

```

```
//
factory.consoleprint("nDropFileCount = " + nDropFileCount);
for (i = 0; i < nDropFileCount; i++) {
    fileObj = arrayDropFiles[i];
    factory.consoleprint(i + " : fileObj.name = " + fileObj.name);
    factory.consoleprint(i + " : fileObj.size = " + fileObj.size);
}

//          가
this.uploader_basic.addfileobjectarray(arrayDropFiles);
}

//
function uploader_basic_on_fileprogress(objInst, nFileIndex, strFileName,
nPos)
{
    //
    this.grdList.setitemtext(nFileIndex, 6, nPos);
}

//
function uploader_basic_on_filecomplete(objInst, nFileIndex, strFileName)
{
    //
    this.UpdateOneFileStauts(nFileIndex);
}

//
function uploader_basic_on_listupdate(objInst)
{
    //
    this.ReloadFileStatus();
}
```

fileuploader.jsp

```
<%@ page import="java.io.File" %>
<%@ page import="java.io.IOException" %>
<%@ page import="java.io.PrintWriter" %>
<%@ page import="java.io.UnsupportedEncodingException" %>
<%@ page import="java.util.HashMap" %>
<%@ page import="java.util.Iterator" %>
<%@ page import="java.util.List" %>

<%@ page import="org.apache.commons.fileupload.FileItem" %>
<%@ page import="org.apache.commons.fileupload.FileUploadException" %>
<%@ page import="org.apache.commons.fileupload.disk.DiskFileItemFactory" %>
<%@ page import="org.apache.commons.fileupload.servlet.ServletFileUpload" %>
<%@ page import="org.apache.commons.io.FilenameUtils" %>
```

```

<%@ page import="org.apache.log4j.Logger" %>

<%!
    // create logging object
    Logger    logger = Logger.getLogger(getClass());

    // Define WebFileManager(WFM) Constant
    String    WFM_DATA_DEL        = String.valueOf((char)0x1A);        //
data delimiter
    String    WFM_DATASTART_DEL    = String.valueOf((char)0x1C);        //
data start indicator
    String    WFM_DATAEND_DEL      = String.valueOf((char)0x1F);        //
data end indicator
    String    WFM_SUCCESS          = "success";                        //
success message
    String    WFM_ERROR            = "error";                          //
error message
    String    WFM_SAVE_FILE_NAME  = "SaveFileName";                    //
saved file name parameter key

    int      maxMemoryFileSize = 10;                                // maximum memory file
size
    int      maxFileSize = 1000 * 1024 * 1024;                    // maximum file size
(100MB)

    String    errorMsg = "";
    String    contextRootDir = "";
    String    tempDirAbsolutePath = "";
    String    saveBaseDirAbsolutePath = "";
%>

<%
    ServletFileUpload    uplaodHandler = null;                        // file uplaod
handler
    List                  fileItemList = null;                        // file item list
    FileItem              fileItem = null;                            // file item
    HashMap               paramMap = new HashMap();                    // parameter map

    logger.info("=====
");
    logger.info("file upload start");

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

    // Reference: XDataSet5.jar
    response.setHeader("Access-Control-Allow-Credentials", "true");
    if(request == null) {

```

```
        logger.error("Access-Control-Allow-Origin = *");
        response.setHeader("Access-Control-Allow-Origin", "*");
    }
    else {
        logger.error("Access-Control-Allow-Origin = " +
request.getHeader("Origin"));
        response.setHeader("Access-Control-Allow-Origin",
request.getHeader("Origin"));
    }
    response.setHeader("Access-Control-Allow-Headers", "X-Requested-With");

// Set upload file temp dir, save base dir path
// setUploadEnvSetting(getServletContext()); // servlet 3.0 spec
setUploadEnvSetting(request.getSession().getServletContext());

// Check whether the request has multipart data content.
boolean isMultipart = ServletFileUpload.isMultipartContent(request);
if(!isMultipart) {
    try {
        logger.error("There is no multipart data in request");
        out.print(getErrorMsg("There is no multipart data in request"));
    } catch (UnsupportedEncodingException e) {
        e.printStackTrace();
    }
    return;
}

// Create a file upload handler
uploadHandler = getFileUploadProcessor();
logger.info("Success to create a file upload handler");

// parse the request
try {
    fileItemList = uploadHandler.parseRequest(request);
}
catch(FileUploadException ex) {
    try {
        logger.error("Fail to parse a request");
        out.print(getErrorMsg("Fail to parse a request"));
    }
    catch (UnsupportedEncodingException e) {
        logger.error("Exception msg = " + e.getMessage());
        e.printStackTrace();
    }
    return;
}

logger.info("Success to parse a request");

// Process the parameter
```



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

    // process a regular form field
    if (fileItem.isFormField()) {
        String fieldName = fileItem.getFieldName();
        String fieldValue = fileItem.getString();
        logger.info("fieldName = " + fieldName + ", fieldValue = " +
fieldValue);
        paramMap.put(fieldName, fieldValue);
    }
}

Iterator iter2 = fileItemList.iterator();
while (iter2.hasNext()) {
    fileItem = (FileItem)iter2.next();

    // process a regular form field
    if (fileItem.isFormField()) {
        continue;
    }

    try {
        String returnMessage = null;

        // process a upload multipart data
        String saveFileName = handleUploadFile(fileItem, paramMap);
        if(saveFileName == null) {
            returnMessage = getErrorMsg(errorMsg);
        }
        else {
            // make a success message
            returnMessage = getSuccessMsg(saveFileName);
        }

        // return a success message to client
        logger.info("returnMessage = [" + returnMessage + "]");

        // out.clearBuffer();
        out.print(returnMessage);
    }
    catch(Exception ex) {
        logger.error("Exception Msg = " + ex.getMessage());
        ex.printStackTrace();
        out.print(getErrorMsg("Fail to process upload file."));
    }
}
}
```

%>

<%!

```
// Set upload file temp dir, save base dir path
public void setUploadEnvSetting(ServletContext context)
{
    // get context real path
    contextRootDir = context.getRealPath("/");
    if(contextRootDir.endsWith(File.separator) == false) {
        contextRootDir += File.separator;
    }

    // temporary directory absolute path for temporary file
    tempDirAbsolutePath = contextRootDir + "temp";
    saveBaseDirAbsolutePath = contextRootDir + "upload";

    logger.info("tempDirAbsolutePath = " + tempDirAbsolutePath);
    logger.info("saveBaseDirAbsolutePath = " + saveBaseDirAbsolutePath);

    makeDirUsingDirPath(tempDirAbsolutePath);
    makeDirUsingDirPath(saveBaseDirAbsolutePath);

    return;
}

// handle a upload file data
public String handleUploadFile(FileItem fileItem, HashMap paramMap) throws
Exception
{
    String          saveFileAbsolutePath = "";          // file absolute path to
save
    String          saveFileName = "";

    String          filePath = fileItem.getName();          // HTML
File
    String          fileName = FilenameUtils.getName(filePath); // file
name

    String          paramDirPath = "";
    String          paramFileName = "";

    logger.info("filePath = " + filePath);
    logger.info("fileName = " + fileName);
    logger.info("getContentType = " + fileItem.getContentType());
    logger.info("getSize = " + fileItem.getSize());

    // get file save information
    paramDirPath = paramMap.get("DIR_PATH") == null ? "" :
(String)paramMap.get("DIR_PATH");
    paramFileName = paramMap.get("FILE_NAME") == null ? "" :
(String)paramMap.get("FILE_NAME");

    logger.info("paramDirPath = [" + paramDirPath + "]);
    logger.info("paramFileName = [" + paramFileName + "]);
```

```
// set save directory absolute path
saveFileAbsolutePath = saveBaseDirAbsolutePath;
if(paramDirPath.length() > 0) {
    saveFileAbsolutePath = saveFileAbsolutePath + File.separatorChar +
paramDirPath;
}

// set save file absolute path
if(paramFileName.length() > 0) {
    saveFileName = paramFileName;
}
else {
    saveFileName = fileName;
}
saveFileAbsolutePath = saveFileAbsolutePath + File.separator +
saveFileName;

logger.info("saveFileAbsolutePath = " + saveFileAbsolutePath);

// make a directory for file path
mkdirUsingFilePath(saveFileAbsolutePath);

// save a upload file to a save file absolute path
while(true) {
    int    retryCount = 0;

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

        if(retryCount > 5) {
            logger.error("Fail to wirte a file");
            errorMsg = "Fail to wirte a file";
            return null;
        }
        else {
            try {
                Thread.sleep(1000);
            }
            catch (InterruptedException ignore) {
                ;
            }
            continue;
        }
    }
}
}
```

```
logger.info("Success To Wirte File");

// delete a file item content
fileItem.delete();

// return a saved file name
return saveFileName;
}

//TODO: change a character set of message
public String msgCharacterSetConvert(String message) throws
UnsupportedEncodingException
{
    if(message == null) {
        return "";
    }

    /*
    logger.info("don't change character set");
    return message;
    */

    logger.info("change character set UTF-8 -> ISO-8859-1");
    return new String(message.getBytes("UTF-8"), "ISO-8859-1");
}

// make a success message
public String getSuccessMsg(String saveFileName) throws
UnsupportedEncodingException {
    StringBuffer returnMsg = new StringBuffer();

    returnMsg.append(WFM_DATASTART_DEL);
    returnMsg.append(WFM_SUCCESS);
    returnMsg.append(WFM_DATA_DEL);
    returnMsg.append(WFM_SAVE_FILE_NAME + "=" + saveFileName);
    returnMsg.append(WFM_DATAEND_DEL);

    /*
    logger.info("String.valueOf((char)0x1A) = " +
String.valueOf((char)0x1A));
    logger.info("String.valueOf((char)0x1C) = " +
String.valueOf((char)0x1C));
    logger.info("String.valueOf((char)0x1F) = " +
String.valueOf((char)0x1F));
    logger.info("WFM_DATASTART_DEL = [" + WFM_DATASTART_DEL+ "]);
    logger.info("WFM_DATA_DEL = [" + WFM_DATA_DEL + "]);
    logger.info("WFM_DATAEND_DEL = [" + WFM_DATAEND_DEL + "]);

    logger.info("returnMsg = [" + returnMsg.toString() + "]);
    */
}
```

```
        return msgCharacterSetConvert(returnMsg.toString());
    }

    // make a error message
    public String getErrorMsg(String errorMsg) throws
    UnsupportedEncodingException
    {
        StringBuffer    returnMsg = new StringBuffer();

        returnMsg.append(WFM_DATASTART_DEL);
        returnMsg.append(WFM_ERROR);
        returnMsg.append(WFM_DATA_DEL);
        returnMsg.append(errorMsg);
        returnMsg.append(WFM_DATAEND_DEL);

        return msgCharacterSetConvert(returnMsg.toString());
    }

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

    // 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 character set for hangul file name
        upload.setHeaderEncoding("UTF-8");
    }
}
```

```
    return upload;
}

// make a directory using a file path
public void makeDirUsingFilePath(String fileAbsolutePath)
{
    File    oFile = new File(fileAbsolutePath);
    File    oDir = oFile.getParentFile();

    // create a diectory
    if(!oDir.exists()) {
        oDir.mkdirs();
    }
}

// make a directory using a dir path
public void makeDirUsingDirPath(String dirAbsolutePath)
{
    File    oDir = new File(dirAbsolutePath);

    // create a diectory
    if(!oDir.exists()) {
        oDir.mkdirs();
    }
}
%>
```

From:

<https://technet.softbase.co.kr/wiki/> - **xFrame5 TechNet**

Permanent link:

https://technet.softbase.co.kr/wiki/guide/component/fileuploader/fileuploader_basic 

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