

Java Servlet

- 1. Servlet
- 2. ,
- 3. HWP, Word, Excel

1. Servlet



Servlet 3.0 @WebServlet .

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
id="WebApp_ID" version="3.1">
  <display-name>synapeditor</display-name>
  <welcome-file-list>
    <welcome-file>index.jsp</welcome-file>
  </welcome-file-list>
  <servlet>
    <servlet-name>ImportServlet</servlet-name>
    <servlet-class>com.synap.synapeditor.ImportServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>ImportServlet</servlet-name>
    <url-pattern>/importDoc</url-pattern>
  </servlet-mapping>
  <servlet>
    <servlet-name>UploadServlet</servlet-name>
    <servlet-class>com.synap.synapeditor.UploadServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>UploadServlet</servlet-name>
    <url-pattern>/uploadFile</url-pattern>
  </servlet-mapping>
</web-app>
```

2. ,



upload

```
import com.google.gson.GsonBuilder;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.apache.commons.fileupload.FileItem;
import org.apache.commons.fileupload.disk.DiskFileItemFactory;
import org.apache.commons.fileupload.servlet.ServletFileUpload;
```

```

import java.io.File;
import java.io.IOException;
import java.io.PrintWriter;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.UUID;

public class UploadServlet extends HttpServlet {

    private static final long serialVersionUID = 1L;
    private static final String UPLOAD_DIR_REL_PATH = "uploads";

    private static final int MEMORY_THRESHOLD = 1024 * 1024 * 3;
    private static final int MAX_FILE_SIZE = 1024 * 1024 * 40;
    private static final int MAX_REQUEST_SIZE = 1024 * 1024 * 50;

    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException,
    IOException {

        if (ServletFileUpload.isMultipartContent(request)) {

            DiskFileItemFactory factory = new DiskFileItemFactory();
            factory.setSizeThreshold(MEMORY_THRESHOLD);
            factory.setRepository(new File(System.getProperty("java.io.tmpdir")));

            ServletFileUpload upload = new ServletFileUpload(factory);
            upload.setHeaderEncoding("UTF-8");
            upload.setFileSizeMax(MAX_FILE_SIZE);
            upload.setSizeMax(MAX_REQUEST_SIZE);

            String ROOT_ABS_PATH = request.getSession().getServletContext().getRealPath("");
            String UPLOAD_DIR_ABS_PATH = ROOT_ABS_PATH + File.separator + UPLOAD_DIR_REL_PATH;

            makeDirectory(UPLOAD_DIR_ABS_PATH);

            String storeFileName = "";
            try {
                List<FileItem> formItems = upload.parseRequest(request);

                if (formItems != null && formItems.size() > 0) {
                    for (FileItem item : formItems) {
                        if (!item.isFormField()) {
                            String ext = item.getName().substring(item.getName().lastIndexOf('.'));
                            storeFileName = UUID.randomUUID().toString() + ext;
                            String storeFileAbsPath = UPLOAD_DIR_ABS_PATH + File.separator +
storeFileName;

                            item.write(new File(storeFileAbsPath)); //
                        }
                    }
                }
            } catch (Exception ex) {
                ex.printStackTrace();
            }

            Map map = new HashMap();
            map.put("uploadPath", "uploads/" + storeFileName);

            PrintWriter out = response.getWriter();
            response.setContentType("application/json");
            response.setCharacterEncoding("UTF-8");

            out.print(new GsonBuilder().create().toJson(map));
            out.flush();
        }
    }

    /**

```

```

        *
        */
        private static void makeDirectory(String dirPath) {
            File dir = new File(dirPath);
            if (!dir.exists()) {
                dir.mkdir();
            }
        }
    }
}

```

3. HWP, Word, Excel



import

```

import com.google.gson.GsonBuilder;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.apache.commons.fileupload.FileItem;
import org.apache.commons.fileupload.disk.DiskFileItemFactory;
import org.apache.commons.fileupload.servlet.ServletFileUpload;

import java.io.File;
import java.io.FileInputStream;
import java.io.IOException;
import java.io.PrintWriter;
import java.util.ArrayList;
import java.util.Calendar;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Timer;
import java.util.TimerTask;
import java.util.UUID;
import java.util.zip.InflaterInputStream;

public class ImportServlet extends HttpServlet {

    private static final long serialVersionUID = 1L;
    private static final String UPLOAD_DIR_REL_PATH = "import";

    private static final int MEMORY_THRESHOLD = 1024 * 1024 * 3;
    private static final int MAX_FILE_SIZE = 1024 * 1024 * 40;
    private static final int MAX_REQUEST_SIZE = 1024 * 1024 * 50;

    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException,
    IOException {

        if (ServletFileUpload.isMultipartContent(request)) {

            DiskFileItemFactory factory = new DiskFileItemFactory();
            factory.setSizeThreshold(MEMORY_THRESHOLD);
            factory.setRepository(new File(System.getProperty("java.io.tmpdir")));

            ServletFileUpload upload = new ServletFileUpload(factory);
            upload.setHeaderEncoding("UTF-8");
            upload.setFileSizeMax(MAX_FILE_SIZE);
            upload.setSizeMax(MAX_REQUEST_SIZE);

```

```

String ROOT_ABS_PATH = request.getSession().getServletContext().getRealPath("");
String UPLOAD_DIR_ABS_PATH = ROOT_ABS_PATH + File.separator + UPLOAD_DIR_REL_PATH;

makeDirectory(UPLOAD_DIR_ABS_PATH);

String storeFileAbsPath = "";
try {
    List<FormItem> formItems = upload.parseRequest(request);

    if (formItems != null && formItems.size() > 0) {
        for (FormItem item : formItems) {
            if (!item.isFormField()) {
                String ext = "";
                String contentType = file.getContentType();
                if (contentType != null) {
                    ext = "." + contentType.substring(contentType.
lastIndexOf('/') + 1);

                    } else if (fileName.lastIndexOf('.') > 0) {
                        ext = fileName.substring(fileName.lastIndexOf
('.'));

                    }
                    if (ext.indexOf(".jpeg") > -1) { // jpg jpeg jpg .
                        ext = ".jpg";
                    }
                    String storeFileName = UUID.randomUUID().toString() + ext;
                    storeFileAbsPath = UPLOAD_DIR_ABS_PATH + File.separator + storeFileName;
                    System.out.println(storeFileAbsPath);

                    item.write(new File(storeFileAbsPath)); //
                }
            }
        }
    } catch (Exception ex) {
        ex.printStackTrace();
    }

    //
    Calendar cal = Calendar.getInstance();
    String yearMonth = String.format("%04d%02d", cal.get(Calendar.YEAR), cal.get(Calendar.
MONTH) + 1);

    String uuid = UUID.randomUUID().toString();
    String outputDirAbsPath = UPLOAD_DIR_ABS_PATH + File.separator + yearMonth + File.
separator + uuid;

    makeDirectory(outputDirAbsPath);

    //
    executeConverter(storeFileAbsPath, outputDirAbsPath);

    //
    deleteFile(storeFileAbsPath);

    // pb serialzie
    // v2.3.0 document.word.pb document.pb
    String pbAbsPath = outputDirAbsPath + File.separator + "document.pb";
    Integer[] serializedData = serializePbData(pbAbsPath);

    // pb
    deleteFile(pbAbsPath);

    Map map = new HashMap();
    map.put("serializedData", serializedData);
    map.put("importPath", UPLOAD_DIR_REL_PATH + "/" + yearMonth + "/" + uuid);

    PrintWriter out = response.getWriter();
    response.setContentType("application/json");
    response.setCharacterEncoding("UTF-8");

    out.print(new GsonBuilder().create().toJson(map));
    out.flush();
}

```

```

    }

    /**
     *
     */
    protected static int executeConverter(String inputFilePath, String outputPath) {
        String SEDOC_CONVERTER_DIR_ABS_PATH = " ";
        String FONT_DIR_ABS_PATH = SEDOC_CONVERTER_DIR_ABS_PATH + File.separator + "fonts";
        String TEMP_DIR_ABS_PATH = SEDOC_CONVERTER_DIR_ABS_PATH + File.separator + "temp";
        String SEDOC_CONVERTER_ABS_PATH = SEDOC_CONVERTER_DIR_ABS_PATH + File.separator +
"sedocConverter_exe";
        // String SEDOC_CONVERTER_ABS_PATH = SEDOC_CONVERTER_DIR_ABS_PATH + File.separator +
"sedocConverter.exe"; // window

        makeDirectory(TEMP_DIR_ABS_PATH);
        makeDirectory(FONT_DIR_ABS_PATH);

        //
        String[] cmd = {SEDOC_CONVERTER_ABS_PATH, "-f", FONT_DIR_ABS_PATH, inputFilePath,
outputPath, TEMP_DIR_ABS_PATH};

        try {
            Timer t = new Timer();
            Process proc = Runtime.getRuntime().exec(cmd);

            TimerTask killer = new TimeoutProcessKiller(proc);
            t.schedule(killer, 20000); // 20 ( 20 )

            int exitValue = proc.waitFor();
            killer.cancel();

            return exitValue;
        } catch (Exception e) {
            e.printStackTrace();
            return -1;
        }
    }

    /**
     *
     */
    protected static Integer[] serializePbData(String pbFilePath) throws IOException {
        List<Integer> serializedData = new ArrayList<Integer>();
        FileInputStream fis = null;
        InflaterInputStream ifis = null;
        Integer[] data = null;

        try {
            fis = new FileInputStream(pbFilePath);
            fis.skip(16);

            ifis = new InflaterInputStream(fis);
            byte[] buffer = new byte[1024];

            int len;
            while ((len = ifis.read(buffer)) != -1) {
                for (int i = 0; i < len; i++) {
                    serializedData.add(buffer[i] & 0xFF);
                }
            }

            data = serializedData.toArray(new Integer[serializedData.size()]);
        } finally {
            if (ifis != null) ifis.close();
            if (fis != null) fis.close();
        }

        return data;
    }
}

```

```

/**
 *
 */
private static void deleteFile(String path) {
    File file = new File(path);
    if (file.exists()) {
        file.delete();
    }
}

/**
 *
 */
private static void makeDirectory(String dirPath) {
    File dir = new File(dirPath);
    if (!dir.exists()) {
        dir.mkdir();
    }
}

private static class TimeoutProcessKiller extends TimerTask {
    private Process p;

    public TimeoutProcessKiller(Process p) {
        this.p = p;
    }

    @Override
    public void run() {
        p.destroy();
    }
}
}

```

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 - [ASP\(Classic\)](#)
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