File Download Service

Summary

Download means sending files from a large computer to a small one. For internet users, download is to receive files in other computer.

Description

In EgovFrameWork, DownloadController class is implemented simply to download the file.

DownloadController Class Example

```
@Controller("downloadController")
public class DownloadController {

	@Resource(name = "fileUploadProperties")
	Properties fileUploadProperties;

	@RequestMapping(value = "/download/downloadFile.do")
	public void downloadFile(
			@RequestParam(value = "requestedFile") String requestedFile,
			HttpServletResponse response) throws Exception {

		String uploadPath = fileUploadProperties
				.getProperty("file.upload.path");

		File uFile = new File(uploadPath, requestedFile);
		int fSize = (int) uFile.length();

		if (fSize > 0) {

			BufferedInputStream in = new BufferedInputStream(
					new FileInputStream(uFile));
			// String mimetype = servletContext.getMimeType(requestedFile);
			String mimetype = "text/html";

			response.setBufferSize(fSize);d
			response.setContentType(mimetype);
			response.setHeader("Content-Disposition", "attachment; filename=\""
					+ requestedFile + "\"");
			response.setContentLength(fSize);

			FileCopyUtils.copy(in, response.getOutputStream());
			in.close();
			response.getOutputStream().flush();
			response.getOutputStream().close();
		} else {
			// setContentType changed to fit the project environment
			response.setContentType("application/x-msdownload");
			PrintWriter printwriter = response.getWriter();
			printwriter.println("<html>");
			printwriter.println("<br><br><br><h2>Could not get file name:<br>"
					+ requestedFile + "</h2>");
			printwriter
					.println("<br><br><br><center><h3><a
href='javascript: history.go(-1)'>Back</a></h3></center>");
			printwriter.println("<br><br><br>&copy; webAccess");
			printwriter.println("</html>");
			printwriter.flush();
			printwriter.close();
		}
```

```
        }
}
```

Example of simple implementation in jsp page

```
<%@ page contentType="text/html; charset=utf-8" pageEncoding="utf-8"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Success</title>
</head>

<body>

<h1>Success</h1>

<p>All good</p>

<c:forEach var="file" items="${fileInfoList}" varStatus="status">

Order : <c:out value="${status.count}" />
        <br />
uploadedFilePath : <c:out value="${file.filePath}" />
        <br />
File Name : <a
                href="#" onclick="window.open(encodeURI('<c:url
value='/download/downloadFile.do?'/>requestedFile=${file.fileName}'))"><c:out
                value="${file.fileName}" /></a>
        <br />
File Size : <c:out value="${file.fileSize}" />
        <br />
        <p />
</c:forEach>

</body>
</html>
```

Tomcat requires character set encoding through request.setCharacterEncoding() when web application receives parameter in the type of GET and POST.

If Korean letter is appeared broken when downloading file, insert the following in JSP page for Zeus or WebLogic to solve the problem.

```
<%@ page contentType="text/html; charset=utf-8" pageEncoding="utf-8"%>
```

For problems of broken Korean letters in Tomcat, refer to the link below:

- Configuring Korean in Tomcat

Reference