Webfolder enhancement tasks

# What is Webfolder?

Webfolder is a web application giving controllable access to manage file system of a remote machine where it runs. Essential part is that it can be any machine including regular desktops, data center servers, laptops and mobile devices. Webfolder supports such operation as navigation over file system, view files, their attributes, rename them, move around, and download. Webfolder supports also uploading files from a client computer (where a browser runs)

# Enhancement tasks

1. Putting files in file clipboard using Ajax operation
2. Allowing upload files from a location specified by URL
3. Floatable panel with control buttons
4. Introduce multi user/concurrent mode
5. Automatic unzip of uploaded file (may not needed considering embedded zip files management)

## Putting files in fie clipboard using Ajax operation

Current implementation does submit complete form as regular POST operation and it forces controller to generate entire screen again in response.

### The enhancement includes the following

1. Create copyClipboard Ajax handler in Folder service (String processcopyClipboardCall())
2. Migrate copy clipboard code from doControl() to this handler
3. Return value is a string which contains number of file references placed in clipboard
4. Create JS function invoked on Copy button which
   1. Submit form in Folder/ajax/copyClipboard
   2. Update clipboard size counter upon result value

The function has to reside in webfolder.js and work for mobile and regular views

1. While Ajax call is processed animated gif can be shown (actually it is generic WebBee enhancement to provide standard indicator of asynchronous process running.

All Ajax calls have to be done using Webbee Ajax framework.

## Allowing upload files from a location specified by URL

File upload capabilities of mobile devices are really limited, so it is valuable instead of providing file location on local file system its URL exposed location. URLs can be http, https and ftp based. Former may include user credentials. This feature has to be implemented as combined asynchronous and synchronous calls.

### Implementation details

1. File browse button has to be combined with automatic upload upon file selection. Onchange function has to be introduced. The current implementation expects that user press upload button after file selection. It won’t be required anymore.
2. Rename upload button to URL upload
3. Create URL upload Ajax handler in Folder as processurlUploadCall which takes parameters as target directory, URL of upload (FTP authentication parameters have to be part of URL, although they can be separately provided), and flag allow HTTPS on not trusted certificates and hosts. The function result contains “ok”, “na”, “nt” or “error” with ‘:’ separator of error details. Ok means that upload was successful, na means that authentication required or wasn’t successful, nt means that non trusted SSL certificate, and error stands for all other errors including URL syntax, host reach ability, time out, insufficient disk space, other network errors.
4. Create floatable HTML div box which becomes visible in center of screen and has the following fields:
   1. Text input for URL
   2. Check box accept non trusted certificate (may become enabled only if URL has https)
   3. Login text input
   4. Password text input
   5. Close and upload buttons
5. Create JS function as Folder/ajax/urlUpload handler which
   1. refreshes entire page in case of ok return code
   2. Redisplay upload parameter box in case of na and nt codes with cause explanation message
   3. Just makes visible status line with error message when error code is returned

Upload implementation has to use utility function copy stream.

Details for other enhancements will be added soon

#### Implementation notes

1. Only Java 11 (JDK 11) compatible API and constructions can be used
2. Final application has to be tested on TJWS and Tomcat app servers
3. HTTPS trusted hosts override has to work on Android as well, so the application has to be tested using Atjeews as well