

```

1  Index:
C:/Users/chris/workspaces/CSCI602/jEdit/jars/commons-net-3.3.jar
2  Cannot display: file marked as a binary type.
3
4  Index: C:/Users/chris/workspaces/CSCI602/jEdit/.classpath
5  @@ -5,5 +5,6 @@
6      <classpathentry kind="src" path="jars/MacOS"/>
7      <classpathentry kind="src" path="jars/QuickNotepad"/>
8      <classpathentry kind="con"
path="org.eclipse.jdt.launching.JRE_CONTAINER/org.eclipse.jdt.intern
al.debug.ui.launcher.StandardVMType/jre6"/>
9  + <classpathentry kind="lib"
path="/java_ftp_sample/commons-net-ftp-2.0.jar"/>
10 <classpathentry kind="output" path="bin"/>
11 </classpath>
12
13 Index:
C:/Users/chris/workspaces/CSCI602/jEdit/org/gjt/sp/jedit/browser/FTP
FileChooserDialog.java
14 @@ -0,0 +1,253 @@
15 +package org.gjt.sp.jedit.browser;
16 +
17 +import java.awt.event.ActionEvent;
18 +import java.awt.event.ActionListener;
19 +import java.io.File;
20 +import java.io.FileInputStream;
21 +import java.io.FileOutputStream;
22 +import java.io.FileWriter;
23 +import java.io.InputStream;
24 +
25 +import javax.swing.GroupLayout;
26 +import javax.swing.JButton;
27 +import javax.swing.JFrame;
28 +import javax.swing.JLabel;
29 +import javax.swing.JPanel;
30 +import javax.swing.JTextField;
31 +import javax.swing.WindowConstants;
32 +
33 +import org.apache.commons.net.ftp.FTP;
34 +import org.apache.commons.net.ftp.FTPClient;
35 +import org.apache.commons.net.ftp.FTPFile;
36 +import org.gjt.sp.jedit.Buffer;
37 +import org.gjt.sp.jedit.View;
38 +import org.gjt.sp.jedit.jEdit;
39 +import org.gjt.sp.util.Log;
40 +/**
41 + * A UI component for requesting FTP login/filename data from the
user to enable
42 + * remote file editing via Apache's FTPClient.
43 + * @author Chris Cargile
44 + * @since 11/22/13
45 + */
46 +@SuppressWarnings("serial")
47 +public class FTPFileChooserDialog extends JFrame implements
ActionListener {
48 +
49 +    static String
userHome=System.getProperty("user.home")+"\\FTPtemp\\";
50 +    static File file;
51 +    static File ftpTemp = new File(userHome);
52 +    static Buffer b;// <- current,active buffer

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53 +   JTextField textField1; // FTP login data fields
54 +   JTextField textField2;
55 +   JTextField textField3;
56 +   JTextField textField4;
57 +   JTextField textField5;
58 +   static JPanel panel = new JPanel();
59 +   public JButton saveButton;
60 +   public JButton getButton;
61 +   static final JFrame frame = new JFrame("FTP Client
Action-Settings");
62 +   static FTPFileChooserDialog instance;
63 +   /**
64 +    * help on java streaming-IO came from:
65 +    * http://docs.oracle.com/javase/tutorial/essential/io/
66 +    */
67 +   public FTPFileChooserDialog() {
68 +       instance=this;
69 +       GroupLayout layout = new GroupLayout(getContentPane());
70 +       getContentPane().setLayout(layout);
71 +       saveButton = new JButton("PUT(STOR) file");
72 +       saveButton.addActionListener(this);
73 +
74 +       getButton = new JButton("GET file");
75 +       getButton.addActionListener(this);
76 +
77 +       textField1 = new JTextField("ftp.charlestonwebapps.com");
78 +       textField2 = new
JTextField("introswe@charlestonwebapps.com");
79 +       textField3 = new JTextField("fall2013");
80 +       textField4 = new JTextField("/");
81 +       textField5 = new JTextField("");
82 +
83 +       // labels added to JFrame
84 +       JLabel server = new JLabel("FTP Server:");
85 +       JLabel fuser = new JLabel("FTP User:");
86 +       JLabel fpass = new JLabel("FTP Pass:");
87 +       JLabel fdir = new JLabel("FTP Dir:");
88 +       JLabel fFilename = new JLabel("<html>FTP File:<BR>"+
89 +       "(leave blank to remotely save-as buffers name<BR>"
90 +       + " or to GET remote file with buffers name (if it
exists))");
91 +
92 +       // in these(3) columns, we'll list the items' vertical
placement in order
93 +       layout.setHorizontalGroup(layout
94 +       .createSequentialGroup()
95 +       .addGroup(
96 +           layout.createParallelGroup().addComponent(server)
97 +           .addComponent(fuser).addComponent(fpass)
98 +           .addComponent(fdir).addComponent(fFilename))
99 +       .addGroup(
100 +       layout.createParallelGroup().addComponent(textField1)
101 +       .addComponent(textField2)
102 +       .addComponent(textField3)
103 +       .addComponent(textField4)
104 +       .addComponent(textField5))
105 +       .addGroup(
106 +       layout.createParallelGroup().addComponent(getButton)

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107 +         .addComponent(saveButton)));
108 +
109 +         // in these rows, we'll list the items' horizontal
placement in order
110 +         layout.setVerticalGroup(layout
111 +             .createSequentialGroup()
112 +             .addGroup(
113 +                 layout.createParallelGroup().addComponent(server)
114 +                 .addComponent(textField1)
115 +                 .addComponent(getButton))
116 +             .addGroup(
117 +                 layout.createParallelGroup().addComponent(fuser)
118 +                 .addComponent(textField2)
119 +                 .addComponent(saveButton))
120 +             .addGroup(
121 +                 layout.createParallelGroup().addComponent(fpass)
122 +                 .addComponent(textField3))
123 +
.addGroup(layout.createParallelGroup().addComponent(fdir).
124 +             .addComponent(textField4))
125 +
.addGroup(layout.createParallelGroup().addComponent(fFilename)
126 +             .addComponent(textField5))
127 +     );
128 +     setTitle("FTP Upload");
129 +     pack();
130 +     //setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
131 + }
132 +
133 + public void actionPerformed(ActionEvent e) {
134 +     View v=jEdit.getActiveView();
135 +     b=v.getBuffer();
136 +     String path = b.getPath();
137 +     //we assume(/assure) buffer/file-names won't contain '\'
or '/'
138 +     int backSlash = path.lastIndexOf("\\")+1;
139 +     int forwardSlash = path.lastIndexOf("/");
140 +     // index @ where filename begins (after last directory "/")
141 +     int index = (backSlash > forwardSlash ? backSlash :
forwardSlash);
142 +     path=path.substring(index, path.length()); //
(String)path<-filename less path
143 +     String website = textField1.getText();
144 +     String username = textField2.getText();
145 +     String password = textField3.getText();
146 +     String directory = textField4.getText();
147 +     //set filename<-buffer's base-filename
or....'Untitled-xyz.txt' as a fallback
148 +     String filename= ( (b.getPath()==null ||
b.getPath().equals("") ) ? "Untitled-xyz.txt":path);
149 +     if(textField5.getText()!=null &&
textField5.getText().length()>0)
150 +         filename=textField5.getText();
151 +     ftpTemp=new File(userHome);
152 +     ftpTemp.mkdir();
153 +     ftpTemp=new File(userHome);
154 +     // helper library credit due:
http://commons.apache.org/proper/commons-net/apidocs/org/apache/commons/net/ftp/FTPClient.html
155 +     FTPClient client = new FTPClient();
156 +     try {

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157 +         if (e.getSource() == getButton) {
158 +             client.connect(website);
159 +             client.login(username, password);
160 +             client.setFileType(FTP.BINARY_FILE_TYPE);
161 +             file = new File(userHome, filename);
162 +             if(file.isFile()){ //delete and re-create
current buffer-named file:
163 +                 String f= file.getPath();
164 +                 if(file.delete())
165 +                     Log.log(Log.WARNING,
instance.getClass(),"deleted by ftp retriever: local file: "+f);
166 +             }
167 +             file.createNewFile();
168 +             if(client.retr(filename)==553){
169 +                 new File(filename).renameTo(file); // move
"jEditProgramRoot/filename" to "user.home/ftpTemp/filename"
170 +                 Log.log(Log.WARNING, instance.getClass(),
"retr ok"+ client.retr(filename)); //code 553 indicates FTP
re-/created local file from FTP-remote
171 +             }
172 +             else{
173 +                 Log.log(Log.WARNING, instance.getClass(),
"FTP \"retr\" "+filename+" not ok. status:"+
174 +                 client.retr(filename)+" ,trying
retrieveFile method instead:\n");//+
175 +                 FileOutputStream fos = new
FileOutputStream(file);
176 +                 if(client.retrieveFile(filename, fos)){
//per FTPClient API, true if retrieval succeeds
177 +                     fos.close();
178 +                     new File(filename).renameTo(file); //
move "jEditProgramRoot/filename" to "user.home/ftpTemp/filename"
179 +                     Log.log(Log.WARNING,
FTPFileChooserDialog.class, "retrieveFile() succeeded.
Reconstructed dl file at: " + file.getCanonicalPath());
180 +                 }
181 +             }
182 +             // this is done so openFile recognizes if we
re-open current buffer-named files
183 +             if(b.isUntitled())
184 +                 b.setNewFile(false);
185 +             jEdit.openFile(v, file.getParent(),
file.getName(), false, null);
186 +         }
187 +         if (e.getSource() == saveButton) {
188 +             client.connect(website);
189 +             client.login(username, password);
190 +             client.setFileType(FTP.BINARY_FILE_TYPE);
191 +             // textField5 not empty so that'll be what the
buffer is saved to
192 +             if(!textField5.getText().equals("")){
193 +                 file = new File(userHome, textField5.getText());
194 +                 String s = b.getText(0, b.getLength());
195 +                 file.delete();
196 +                 file.createNewFile();
197 +                 if(file.canWrite()){
198 +                     FileWriter writer = new FileWriter(file);
199 +                     writer.write(s);
200 +                     writer.close();
201 +                 }
202 +             }
else{

```

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203 +             Log.log(Log.WARNING,
FTPFileChooserDialog.class,"cannot write file");
204 +         }
205 +     }
206 +     // else if: textField left empty but buffer IS named
207 +     else if(textField5.getText().equals("") &&
!((b.getPath()==null || b.getPath().equals("")))){
208 +         file= new File(userHome,path);
209 +         file.delete();
210 +         file.createNewFile();
211 +         String s = b.getText(0, b.getLength());
212 +         // write the contents of the current buffer
to 'file'
213 +         if(file.canWrite()){
214 +             FileWriter writer = new FileWriter(file);
215 +             writer.write(s);
216 +             writer.close();
217 +         }
218 +         else{
219 +             Log.log(Log.WARNING,
FTPFileChooserDialog.class,
"cannot write file");
220 +         }
221 +     }
222 +     InputStream localInputStr = null;
223 +     if (file.isFile()) {
224 +         localInputStr = new
FileInputStream(file.getPath());
225 +         client.dele(file.getName());
226 +         boolean result
=client.appendFile(file.getName(), localInputStr);
227 +         localInputStr.close();
228 +         Log.log(Log.WARNING,
FTPFileChooserDialog.class,"file: "+file.getPath()+" saved to: " +
website+" "+directory);
229 +     }
230 + } //end if(saveButton==source)
231 + if(client.abort())
232 +     ;//Log.log(Log.WARNING, instance.getClass(), "FTP
Client Connection closed");
233 + }
234 + catch (Exception e1) {
235 +     Log.log(Log.WARNING, instance.getClass(),
e1.getMessage());
236 + }
237 + instance.setVisible(false);
238 + instance.dispose();
239 + } // end actionPerformed(ActionEvent) method
240 +
241 + /** A convenience method to remove the FTPtemp directory
242 + * Note: the method does not work on Windows8 due probably to
Win8 UAC
243 + * restrictions
244 + */
245 + public void removeFTPTemp(){
246 +     try{
247 +         File[] filesInTemp;
248 +         if(ftpTemp!=null){
249 +             if(ftpTemp.isDirectory()){
250 +                 //delete files in directory first
251 +                 //or removing directory will fail

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253 +             filesInTemp=ftpTemp.listFiles();
254 +             for(File namedFile:filesInTemp)
255 +                 namedFile.delete();
256 +             if(ftpTemp.delete())
257 +                 ;//Log.log(Log.WARNING,
instance.getClass(), "deleted directory:"+ftpTemp.getPath());
258 +         }
259 +     }
260 +     else
261 +         Log.log(Log.WARNING, instance.getClass(), "FTPTemp
directory not deleted");
262 +     }
263 +     catch(Exception e){
264 +         Log.log(Log.WARNING, instance.getClass(), "exception:
"+e);
265 +     }
266 + } // end remoteFTPTemp() method
267 +} // end class
268
269 Index:
C:/Users/chris/workspaces/CSCI602/jEdit/org/gjt/sp/jedit/actions.xml
270 @@ -614,4 +614,4 @@
271 +<ACTION NAME="open-remote-file">
272 +    <CODE>
273 +        GUIUtilities.showFTPFileChooserDialog();
274 +    </CODE>
275 +</ACTION>
276 +
277
278 Index:
C:/Users/chris/workspaces/CSCI602/jEdit/org/gjt/sp/jedit/jedit_gui.p
rops
279 @@ -27,6 +27,7 @@
280     new-file.shortcut=C+n
281     open-file.shortcut=C+o
282     open-read-only-file.shortcut=C+r
283 +open-remote-file.shortcut=C+e
284     print.shortcut=C+p
285     exit.shortcut=C+q
286     # C+r is a prefix
287 @@ -180,6 +180,7 @@
288     file=new-file \
289         open-file \
290         open-read-only-file \
291 +    open-remote-file \
292         %recent-files \
293         - \
294         reload \
295 @@ -202,6 +203,7 @@
296     new-file.label=$New
297     open-file.label=$Open...
298     open-read-only-file.label=$Open As Read Only...
299 +open-remote-file.label=Op$en/Save File using FTP...
300     reload.label=$Reload
301     reload-all.label=Reloa$d All...
302     close-buffer.label=$Close
303
304 Index:
C:/Users/chris/workspaces/CSCI602/jEdit/org/gjt/sp/jedit/GUIUtilitie
s.java
305 @@ -49,14 +49,30 @@

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```

306     import java.util.Map;
307     import java.util.StringTokenizer;
308
309     -import javax.swing.*;
310     +import javax.swing.Box;
311     +import javax.swing.BoxLayout;
312     +import javax.swing.Icon;
313     +import javax.swing.ImageIcon;
314     +import javax.swing.JButton;
315     +import javax.swing.JComponent;
316     +import javax.swing.JDialog;
317     +import javax.swing.JLabel;
318     +import javax.swing.JList;
319     +import javax.swing.JMenu;
320     +import javax.swing.JMenuBar;
321     +import javax.swing.JMenuItem;
322     +import javax.swing.JOptionPane;
323     +import javax.swing.JPanel;
324     +import javax.swing.JPopupMenu;
325     +import javax.swing.JScrollPane;
326     +import javax.swing.JSplitPane;
327     +import javax.swing.SwingUtilities;
328
329     -import org.gjt.sp.jedit.View;
330     +import org.gjt.sp.jedit.browser.FTPFileChooserDialog;
331     import org.gjt.sp.jedit.browser.VFSFileChooserDialog;
332     import org.gjt.sp.jedit.gui.EnhancedButton;
333     import org.gjt.sp.jedit.gui.FloatingWindowContainer;
334     import org.gjt.sp.jedit.gui.SplashScreen;
335     -import org.gjt.sp.jedit.gui.ToolBarManager;
336     import org.gjt.sp.jedit.gui.VariableGridLayout;
337     import org.gjt.sp.jedit.menu.EnhancedCheckBoxMenuItem;
338     import org.gjt.sp.jedit.menu.EnhancedMenu;
339     @@ -738,6 +754,12 @@
340         JOptionPane.YES_NO_OPTION,
341         JOptionPane.QUESTION_MESSAGE);
342     } //}}}
343
344     + //{{{ showFTPFileChooserDialog() method
345     + public static void showFTPFileChooserDialog(){
346     +     (fileChooser = new FTPFileChooserDialog()).setVisible(true);
347     +     fileChooser.removeFTPTemp();
348     + } //}}}
349
350     //{{{ showVFSFileDialog() method
351     /**
352     @@ -1706,2 +1708,2 @@
353     + private static FTPFileChooserDialog fileChooser;
354     private static boolean isEdit;
355

```