

## Commit description

Re-show introduction Pause

Refactor the requests for the virtual file system browser that still used work requests to use the Task API

## Code changes

Below you find the code changes to review. The old version of the code is on the left, the new version is on the right.

To add a review remark, click on the respective line number. To delete it, click on it again and delete the remark's text. If a defect spans multiple lines, just mark one of those lines. If similar defects appear multiple times, please mark every occurrence. If you suspect something could be a defect but are not 100% sure, it's better to add a review remark.

At several of the change parts, you can show the whole changed method by clicking on "(Show more context)".

org/experiment/editor/browser/AbstractBrowserTask.java, constructor

```
40 /**  
41  * Creates a new browser I/O request.  
42  * @param browser The VFS browser instance  
43  * @param path1 The first path name to operate on  
44  * @param path2 The second path name to operate on  
45  * @param loadInfo A two element array filled out by the request;  
46  * element 1 is the canonical path, element 2 is the file list.  
47  */  
48 AbstractBrowserTask(VFSBrowser browser,  
49     Object session, VFS vfs, String path1, String path2,  
50     Object[] loadInfo)  
51 {  
52     this(browser, session, vfs, path1, path2, loadInfo, null);  
53 }
```

org/experiment/editor/browser/AbstractBrowserTask.java, constructor

org/experiment/editor/browser/AbstractBrowserTask.java

```
40
```

org/experiment/editor/browser/AbstractBrowserTask.java, constructor

```

55  /**
56   * Creates a new browser I/O request.
57   * @param browser The VFS browser instance
58   * @param path1 The first path name to operate on
59   * @param path2 The second path name to operate on
60   * @param loadInfo A two element array filled out by the request;
61   * element 1 is the canonical path, element 2 is the file list.
62   */
63   AbstractBrowserTask(VFSBrowser browser,
64   Object session, VFS vfs, String path1, String path2,
65   Object[] loadInfo, Runnable awtTask)
66   {
67       this.browser = browser;
68       this.session = session;
69       this.vfs = vfs;
70   this.path1 = path1;
71   this.path2 = path2;
72   this.loadInfo = loadInfo;
73       if (awtTask != null)
74       {
75           MyTaskListener listener = new MyTaskListener(awtTask);
76           TaskManager.instance.addTaskListener(listener);
77       }
78   }

```

org/experiment/editor/browser/AbstractBrowserTask.java

```

81   protected VFSBrowser browser;
82   protected Object session;
83   protected VFS vfs;
84   protected String path1;
85   protected String path2;
86   protected Object[] loadInfo;

```

org/experiment/editor/browser/ListDirectoryBrowserTask.java, \_run()

```

40  /**
41   * Creates a new browser I/O request.
42   * @param browser The VFS browser instance
43   * @param path The first path name to operate on
44   */
45   AbstractBrowserTask(VFSBrowser browser,
46   Object session, VFS vfs, String path, Runnable awtTask)
47   {
48       this.browser = browser;
49       this.session = session;
50       this.vfs = vfs;
51   this.path = path;
52       if (awtTask != null)
53       {
54           MyTaskListener listener = new MyTaskListener(awtTask);
55           TaskManager.instance.addTaskListener(listener);
56       }
57   }

```

Re-show introduction Pause

org/experiment/editor/browser/AbstractBrowserTask.java

```

60   protected VFSBrowser browser;
61   protected Object session;
62   protected VFS vfs;
63   protected String path;

```

org/experiment/editor/browser/ListDirectoryBrowserTask.java, \_run()  
[\(Show more context\)](#)

```

57  @Override
58  public void _run()
59  {
60      String[] args = {-path1-};;
61      setStatus(Editor.getProperty("vfs.status.listing-directory",args));
62
63      String canonPath = path1;;
64
65      VFSFile[] directory = null;
66      try
67      {
68          setCancelable(true);
69
70          canonPath = vfs._canonPath(session,path1,browser);;
71          directory = vfs._listFiles(session,canonPath,browser);
72      }
73      catch(IOException io)
74      {
75          setCancelable(false);
76          Log.log(Log.ERROR,this,io);
77          String[] pp = { io.toString() };
78          VFSManager.error(browser,path1,"ioerror.directory-error",pp);
79      }
80      finally
81      {
82          try
83          {
84              vfs._endVFSSession(session,browser);
85          }
86          catch(IOException io)
87          {
88              setCancelable(false);
89              Log.log(Log.ERROR,this,io);
90              String[] pp = { io.toString() };
91          }
92          VFSManager.error(browser,path1,"ioerror.directory-error",pp);
93      }
94
95      setCancelable(false);

```

org/experiment/editor/browser/ListDirectoryBrowserTask.java, constructor

```

59  @Override
60  public void _run()
61  {
62      String[] args = {path};
63      setStatus(Editor.getProperty("vfs.status.listing-directory",args));
64
65      String canonPath = path;
66
67      VFSFile[] directory = null;
68      try
69      {
70          setCancelable(true);
71
72          canonPath = vfs._canonPath(session, path,browser);
73          directory = vfs._listFiles(session,canonPath,browser);
74      }
75      catch(IOException io)
76      {
77          setCancelable(false);
78          Log.log(Log.ERROR,this,io);
79          String[] pp = { io.toString() };
80          VFSManager.error(browser, path,"ioerror.directory-error",pp);
81      }
82      finally
83      {
84          try
85          {
86              vfs._endVFSSession(session,browser);
87          }
88          catch(IOException io)
89          {
90              setCancelable(false);
91              Log.log(Log.ERROR,this,io);
92              String[] pp = { io.toString() };
93          }
94          VFSManager.error(browser, path,"ioerror.directory-error",pp);
95      }
96
97      setCancelable(false);

```

Re-show introduction Pause

org/experiment/editor/browser/ListDirectoryBrowserTask.java, constructor

```

42  /**
43   * Creates a new browser I/O request.
44   * @param browser The VFS browser instance
45   * @param path1 The first path name to operate on
46   * @param loadInfo A two-element array filled out by the request;
47   * element 1 is the canonical path, element 2 is the file list.
48   */
49   ListDirectoryBrowserTask(VFSBrowser browser,
50   Object session, VFS vfs, String path1,
51   Object[] loadInfo, Runnable awtRunnable)
52   {
53   super(browser, session, vfs, path1, null, loadInfo, awtRunnable);
54   }

```

org/experiment/editor/browser/ListDirectoryBrowserTask.java

Re-show introduction || Pause

```

43  /**
44   * Creates a new browser I/O request.
45   * @param browser The VFS browser instance
46   * @param path The first path name to operate on
47   * @param loadInfo A two-element array filled out by the request;
48   * element 1 is the canonical path, element 2 is the file list.
49   */
50   ListDirectoryBrowserTask(VFSBrowser browser,
51   Object session, VFS vfs, String path,
52   Object[] loadInfo, Runnable awtRunnable)
53   {
54   super(browser, session, vfs, path, awtRunnable);
55   }

```

org/experiment/editor/browser/ListDirectoryBrowserTask.java

```

42  private Object[] loadInfo;

```

org/experiment/editor/browser/ListDirectoryBrowserTask.java, toString()

```

102  public String toString()
103  {
104      return getClass().getName() + "[type=LIST_DIRECTORY"
105      + ",vfs=" + vfs + ","path1=" + path1 + ']'";
106  }

```

org/experiment/editor/browser/ListDirectoryBrowserTask.java, toString()

```

104  public String toString()
105  {
106      return getClass().getName() + "[type=LIST_DIRECTORY"
107      + ",vfs=" + vfs + ","pat=" + path + ']'";
108  }

```

org/experiment/editor/browser/RenameBrowserTask.java

```

1

```

org/experiment/editor/browser/RenameBrowserTask.java

```

1  package org.experiment.editor.browser;
2
3  import org.experiment.editor.OperatingSystem;
4  import org.experiment.editor.io.VFS;
5  import org.experiment.editor.io.VFSFile;
6  import org.experiment.editor.io.VFSManager;
7  import org.experiment.editor.Editor;
8  import org.experiment.util.Log;
9
10 import java.io.IOException;
11
12 /**
13  * @author John Doe
14  */
15 class RenameBrowserTask extends AbstractBrowserTask
16 {
17     /**
18     * Creates a new browser I/O request.
19     */

```

Re-show introduction || Pause

```

20  * @param browser The VFS browser instance
21  * @param path1   The first path name to operate on
22  * @param path2   The second path name to operate on
23  */
24  RenameBrowserTask(VFSBrowser browser,
25                   Object session, VFS vfs, String path1, String path2,
26                   Runnable awtRunnable)
27  {
28      super(browser, session, vfs, path1, awtRunnable);
29      this.path2 = path1;
30  }
31
32  @Override
33  public void _run()
34  {
35      try
36      {
37          setCancelable(true);
38          String[] args = {path, path2};
39          setStatus(Editor.getProperty("vfs.status.renaming", args));
40
41          path = vfs._canonPath(session, path, browser);
42          path2 = vfs._canonPath(session, path2, browser);
43
44          VFSFile file = vfs._getFile(session, path2, browser);
45          if (file != null)
46          {
47              if ((OperatingSystem.isCaseInsensitiveFS())
48                  && path.equalsIgnoreCase(path2))
49              {
50                  // allow user to change name
51                  // case
52              }
53              else
54              {
55                  VFSManager.error(browser, path,
56                                  "ioerror.rename-exists",
57                                  new String[]{path2});
58                  return;
59              }
60          }
61
62          if (!vfs._rename(session, path, path2, browser))
63              VFSManager.error(browser, path, "ioerror.rename-error",
64                              new String[]{path2});
65      }
66      catch (IOException io)
67      {

```

Re-show introduction Pause

```

68         setCancelable(false);
69         Log.log(Log.ERROR, this, io);
70         String[] pp = {io.toString()};
71         VFSManager.error(browser, path, "ioerror.directory-error", pp);
72     }
73     finally
74     {
75         try
76         {
77             vfs._endVFSSession(session, browser);
78         }
79         catch (IOException io)
80         {
81             setCancelable(false);
82             Log.log(Log.ERROR, this, io);
83             String[] pp = {io.toString()};
84             VFSManager.error(browser, path, "ioerror.directory-error",
pp);
85         }
86     }
87 }
88
89 public String toString()
90 {
91     return getClass().getName() + "[type=RENAME"
92         + ",vfs=" + vfs + ",path=" + path
93         + ",path2=" + path2 + ']';
94 }
95
96 private String path2;
97
98 }

```

org/experiment/editor/browser/MkDirBrowserTask.java

1

org/experiment/editor/browser/MkDirBrowserTask.java

```

1 package org.experiment.editor.browser;
2
3 import org.experiment.editor.io.VFS;
4 import org.experiment.editor.io.VFSManager;
5 import org.experiment.editor.Editor;
6 import org.experiment.util.Log;
7
8 import java.io.IOException;
9
10 /**
11  * @author John Doe

```

Re-show introduction Pause

```

12 */
13 class MkdirBrowserTask extends AbstractBrowserTask
14 {
15     /**
16      * Creates a new browser I/O request.
17      * @param browser The VFS browser instance
18      * @param path The first path name to operate on
19      */
20     MkdirBrowserTask(VFSBrowser browser,
21                     Object session, VFS vfs, String path,
22                     Runnable awtRunnable)
23     {
24         super(browser, session, vfs, path, awtRunnable);
25     }
26
27     @Override
28     public void _run()
29     {
30         String[] args = {path};
31         try
32         {
33             setCancellable(true);
34             setStatus(Editor.getProperty("vfs.status.mkdir",args));
35
36             path = vfs._canonPath(session, path,browser);
37
38             if(!vfs._mkdir(session, path,browser))
39                 VFSManager.error(browser, path,"ioerror.mkdir-error",null);
40         }
41         catch(IOException io)
42         {
43             setCancellable(false);
44             Log.log(Log.ERROR,this,io);
45             args[0] = io.toString();
46             VFSManager.error(browser, path,"ioerror",args);
47         }
48         finally
49         {
50             try
51             {
52                 vfs._endVFSSession(session,browser);
53             }
54             catch(IOException io)
55             {
56                 setCancellable(false);
57                 Log.log(Log.ERROR,this,io);
58                 args[0] = io.toString();
59                 VFSManager.error(browser, path,"ioerror",args);

```

```
60     }
61   }
62 }
63
64 public String toString()
65 {
66     return getClass().getName() + "[type=DELETE"
67         + ",vfs=" + vfs + ",path=" + path + ']';
68 }
69 }
```

Re-show introduction Pause

org/experiment/editor/browser/BrowserIORequest.java

```
1 package org.experiment.editor.browser;
2
3 import java.io.*;
4 import org.experiment.editor.io.*;
5 import org.experiment.editor.*;
6 import org.experiment.util.*;
7
8 /**
9  * A VFS browser I/O request.
10  * @author Jane Doe
11  */
12 class BrowserIORequest extends WorkRequest
13 {
14     /**
15      * Directory listing I/O request.
16      */
17     public static final int LIST_DIRECTORY = 0;
18
19     /**
20      * Delete file I/O request.
21      */
22     public static final int DELETE = 1;
23
24     /**
25      * Rename file I/O request.
26      */
27     public static final int RENAME = 2;
28
29     /**
30      * Make directory I/O request.
31      */
32     public static final int MKDIR = 3;
33
34 }
```

org/experiment/editor/browser/BrowserIORequest.java

1



```

35 /**
36  * Creates a new browser I/O request.
37  * @param type The request type
38  * @param browser The VFS browser instance
39  * @param path1 The first path name to operate on
40  * @param path2 The second path name to operate on
41  * @param loadInfo A two element array filled out by the request;
42  * element 1 is the canonical path, element 2 is the file list.
43  */
44 BrowserIORequest(int type, VFSBrowser browser,
45     Object session, VFS vfs, String path1, String path2,
46     Object[] loadInfo)
47 {
48     this.type = type;
49     this.browser = browser;
50     this.session = session;
51     this.vfs = vfs;
52     this.path1 = path1;
53     this.path2 = path2;
54     this.loadInfo = loadInfo;
55 }
56
57 public void run()
58 {
59     switch(type)
60 {
61     case LIST_DIRECTORY:
62         listDirectory();
63         break;
64     case DELETE:
65         delete();
66         break;
67     case RENAME:
68         rename();
69         break;
70     case MKDIR:
71         mkdir();
72         break;
73     }
74 }
75
76 public String toString()
77 {
78     String typeString;
79     switch(type)
80 {
81     case LIST_DIRECTORY:
82         typeString = "LIST_DIRECTORY";

```

```

83         break;
84     case DELETE:
85         typeString = "DELETE";
86         break;
87     case RENAME:
88         typeString = "RENAME";
89         break;
90     case MKDIR:
91         typeString = "MKDIR";
92         break;
93     default:
94         typeString = "UNKNOWN!!!";
95         break;
96     }
97
98     return getClass().getName() + "[type=" + typeString
99         + ",vfs=" + vfs + ",path1=" + path1
100        + ",path2=" + path2 + "]\n";
101 }
102
103 //Private members
104
105 private int type;
106 private VFSBrowser browser;
107 private Object session;
108 private VFS vfs;
109 private String path1;
110 private String path2;
111 private Object[] loadInfo;
112
113 private void listDirectory()
114 {
115     VFSFile[] directory = null;
116
117     String[] args = { path1 };
118     setStatus(Editor.getProperty("vfs.status.listing_directory",args));
119
120     String canonPath = path1;
121
122     try
123     {
124         setAbortable(true);
125
126         canonPath = vfs._canonPath(session,path1,browser);
127         directory = vfs._listFiles(session,canonPath,browser);
128     }
129     catch(IOException io)
130     {

```

```

131 setAbortable(false);
132 Log.log(Log.ERROR,this,io);
133 String[] pp = { io.toString() };
134 VFSManager.error(browser,path1,"ioerror.directory_error",pp);
135 }
136 catch(WorkThread.Abort a)
137 {
138 }
139 finally
140 {
141 try
142 {
143 vfs._endVFSSession(session,browser);
144 }
145 catch(IOException io)
146 {
147 setAbortable(false);
148 Log.log(Log.ERROR,this,io);
149 String[] pp = { io.toString() };
150 VFSManager.error(browser,path1,"ioerror.directory_error",pp);
151 }
152 }
153
154 setAbortable(false);
155
156 loadInfo[0] = canonPath;
157 loadInfo[1] = directory;
158 }
159
160 private void delete()
161 {
162 try
163 {
164 setAbortable(true);
165 String[] args = { path1 };
166 setStatus(Editor.getProperty("vfs.status.deleting",args));
167
168 try
169 {
170 path1 = vfs._canonPath(session,path1,browser);
171
172
173 if(!vfs._delete(session,path1,browser))
174 VFSManager.error(browser,path1,"ioerror.delete-
error",null);
175 }
176 catch(IOException io)
177 {

```

Re-show introduction || Pause

```

178         setAbortable(false);
179         Log.log(Log.ERROR,this,io);
180         String[] pp = { io.toString() };
181         VFSManager.error(browser,path1,"ioerror.directory_error",pp);
182     }
183 }
184 catch(WorkThread.Abort a)
185 {
186 }
187 finally
188 {
189     try
190     {
191         vfs._endVFSSession(session,browser);
192     }
193     catch(IOException io)
194     {
195         setAbortable(false);
196         Log.log(Log.ERROR,this,io);
197         String[] pp = { io.toString() };
198         VFSManager.error(browser,path1,"ioerror.directory_error",pp);
199     }
200 }
201 }
202
203 private void rename()
204 {
205     try
206     {
207         setAbortable(true);
208         String[] args = { path1, path2 };
209         setStatus(Editor.getProperty("vfs.status.renaming",args));
210
211         try
212         {
213             path1 = vfs._canonPath(session,path1,browser);
214             path2 = vfs._canonPath(session,path2,browser);
215
216             VFSFile file = vfs._getFile(session,path2,browser);
217             if(file != null)
218             {
219                 if((OperatingSystem.isCaseInsensitiveFS())
220                     && path1.equalsIgnoreCase(path2))
221                 {
222                     // allow user to change name
223                     // case
224                 }
225             }
226             else

```

Re-show introduction || Pause

```
226         {
227             VFSManager.error(browser,path1,
228                 "ioerror.rename-exists",
229                 new String[] { path2 });
230             return;
231         }
232     }
233
234     if(!vfs._rename(session,path1,path2,browser))
235         VFSManager.error(browser,path1,"ioerror.rename-error",
236             new String[] { path2 });
237     }
238     catch(IOException io)
239     {
240         setAbortable(false);
241         Log.log(Log.ERROR,this,io);
242         String[] pp = { io.toString() };
243         VFSManager.error(browser,path1,"ioerror.directory-error",pp);
244     }
245 }
246 catch(WorkThread.Abort a)
247 {
248 }
249 finally
250 {
251     try
252     {
253         vfs._endVFSSession(session,browser);
254     }
255     catch(IOException io)
256     {
257         setAbortable(false);
258         Log.log(Log.ERROR,this,io);
259         String[] pp = { io.toString() };
260         VFSManager.error(browser,path1,"ioerror.directory-error",pp);
261     }
262 }
263 }
264
265 private void mkdir()
266 {
267     try
268     {
269         setAbortable(true);
270         String[] args = { path1 };
271         setStatus(Editor.getProperty("vfs.status.mkdir",args));
272
273         try
```

```

274         {
275             path1 = vfs._canonPath(session,path1,browser);
276
277             if(!vfs._mkdir(session,path1,browser))
278                 VFSManager.error(browser,path1,"ioerror.mkdir-
error",null);
279         }
280         catch(IOException io)
281         {
282             setAbortable(false);
283             Log.log(Log.ERROR,this,io);
284             args[0] = io.toString();
285             VFSManager.error(browser,path1,"ioerror",args);
286         }
287     }
288     catch(WorkThread.Abort a)
289     {
290     }
291     finally
292     {
293         try
294         {
295             vfs._endVFSSession(session,browser);
296         }
297         catch(IOException io)
298         {
299             setAbortable(false);
300             Log.log(Log.ERROR,this,io);
301             String[] args = { io.toString() };
302             VFSManager.error(browser,path1,"ioerror",args);
303         }
304     }
305 }
306
307 }

```

Re-show introduction || Pause

org/experiment/editor/browser/DeleteBrowserTask.java

1

org/experiment/editor/browser/DeleteBrowserTask.java

```

1 package org.experiment.editor.browser;
2
3 import org.experiment.editor.io.VFS;
4 import org.experiment.editor.io.VFSManager;

```

Re-show introduction Pause

```
5 import org.experiment.editor.Editor;
6 import org.experiment.util.Log;
7
8 import java.io.IOException;
9
10 /**
11  * @author John Doe
12  */
13 class DeleteBrowserTask extends AbstractBrowserTask
14 {
15     /**
16      * Creates a new browser I/O request.
17      *
18      * @param browser The VFS browser instance
19      * @param path     The first path name to operate on
20      */
21     DeleteBrowserTask(VFSBrowser browser,
22                       Object session, VFS vfs, String path)
23     {
24         super(browser, session, vfs, path, null);
25     }
26
27     @Override
28     public void _run()
29     {
30         try
31         {
32             setCancelable(false);
33             String[] args = {path};
34             setStatus(Editor.getProperty("vfs.status.deleting", args));
35
36             path = vfs._canonPath(session, path, browser);
37
38
39             if (!vfs._delete(session, path, browser))
40                 VFSManager.error(browser, path, "ioerror.delete-error",
41 null);
42         }
43         catch (IOException io)
44         {
45             setCancelable(false);
46             Log.log(Log.ERROR, this, io);
47             String[] pp = {io.toString()};
48             VFSManager.error(browser, path, "ioerror.directory-error", pp);
49         }
50         finally
51         {
52             try
```

Re-show introduction Pause

```

52         {
53             vfs._endVFSSession(session, browser);
54         }
55         catch (IOException io)
56         {
57             setCancelable(false);
58             Log.log(Log.ERROR, this, io);
59             String[] pp = {io.toString()};
60             VFSManager.error(browser, path, "ioerror.directory-error",
61 pp);
62         }
63     }
64
65     public String toString()
66     {
67         return getClass().getName() + "[type=DELETE"
68             + ",vfs=" + vfs + ",path=" + path +
69             ']';
70     }
71 }

```

org/experiment/editor/browser/VFSBrowser.java, delete()

```

696
697     if(!startRequest())
698         return;
699
700     for(int i = 0; i < files.length; i++)
701     {
702         Object session =
703             vfs.createVFSSession(files[i].getDeletePath(),this);
704         if(session == null)
705         {
706             continue;
707         }
708
709         VFSManager.runInWorkThread(new BrowserIORequest(
710 BrowserIORequest.DELETE,this,
711 session,vfs,files[i].getDeletePath(),
712 null,null));
713     }
714
715     // Do not change this until all VFS Browser tasks are
716 // done in ThreadUtilities
717 VFSManager.runInAWTThread(new Runnable()
718 {
719     public void run()

```

org/experiment/editor/browser/VFSBrowser.java, delete() [\(Show more context\)](#)

```

696
697     if(!startRequest())
698         return;
699
700     final CountdownLatch latch = new CountdownLatch(files.length);
701     for(int i = 0; i < files.length; i++)
702     {
703         Object session =
704             vfs.createVFSSession(files[i].getDeletePath(),this);
705         if(session == null)
706         {
707             continue;
708         }
709
710         final Task task = new DeleteBrowserTask(
711             this, session, vfs, files[i].getDeletePath());
712         TaskManager.instance.addTaskListener(new TaskAdapter()
713         {
714             @Override
715             public void done(Task t)
716             {
717                 if (task == t)
718                 {
719                     latch.countDown();

```



```

720     {
721         endRequest();
722     }
723     });
724 }

```

```

720         TaskManager.instance.removeTaskListener(this);
721     }
722 }
723 });
724 ThreadUtilities.runInBackground(task);
725 }
726
727 try
728 {
729     latch.await();
730 }
731 catch (InterruptedException e)
732 {
733     Log.log(Log.ERROR, this, e, e);
734 }
735
736 EventQueue.invokeLater(new Runnable()
737 {
738     @Override
739     public void run()
740     {
741         endRequest();
742     }
743 });
744 }

```

Re-show introduction || Pause

org/experiment/editor/browser/VFSBrowser.java, rename()

```

740
741     if(!startRequest())
742         return;
743
744     VFSManager.runInWorkThread(new BrowserIORequest(
745     BrowserIORequest.RENAME,this,
746     session,vfs,from,to,null));
747
748     // Do not change this until all VFS Browser tasks are
749     // done in ThreadUtilities
750     VFSManager.runInAWTThread(new Runnable()
751     {
752         public void run()
753         {
754             endRequest();
755         }
756     });
757 }

```

org/experiment/editor/browser/VFSBrowser.java, rename() [\(Show more context\)](#)

```

762
763     if(!startRequest())
764         return;
765
766     Runnable delatedAWT = new Runnable()
767     {
768         @Override
769         public void run()
770         {
771             endRequest();
772         }
773     };
774     Task renameTask = new RenameBrowserTask(
775         this, session, vfs, to, from, delatedAWT);
776     ThreadUtilities.runInBackground(renameTask);
777 }


```

org/experiment/editor/browser/VFSBrowser.java, rename()

```
775
776     if(!startRequest())
777         return;
778
779     VFSManager.runInWorkThread(new BrowserIORequest(
780     BrowserIORequest.RENAME,this,
781     session,vfs,from,to,null));
782
783     // Do not change this until all VFS Browser tasks are
784     // done in ThreadUtilities
785     VFSManager.runInAWTThread(new Runnable()
786     {
787         public void run()
788         {
789             endRequest();
790         }
791     });
792 }
```

org/experiment/editor/browser/VFSBrowser.java, mkdir()

org/experiment/editor/browser/VFSBrowser.java, rename()

Re-show introduction  Pause

```
794
795     if(!startRequest())
796         return;
797
798     Runnable delayedAWT = new Runnable()
799     {
800         @Override
801         public void run()
802         {
803             endRequest();
804         }
805     };
806     Task task = new RenameBrowserTask(
807         this, session, vfs, to, from, delayedAWT);
808     ThreadUtilities.runInBackground(task);
809 }
```

org/experiment/editor/browser/VFSBrowser.java, mkdir() [\(Show more context\)](#)

```

825
826     if(!startRequest())
827         return;
828
829 VFSManager.runInWorkThread(new BrowserIORequest(
830     BrowserIORequest.MKDIR,this,
831     session,vfs,newDirectory,null,null));
832
833 // Do not change this until all VFS Browser tasks are
834 // done in ThreadUtilities
835 VFSManager.runInAWTThread(new Runnable()
836 {
837     public void run()
838     {
839         endRequest();
840         if (selected.length != 0
841             && selected[0].getType() != VFSFile.FILE)
842         {
843             VFSDirectoryEntryTable directoryEntryTable =
844                 browserView.getTable();
845             int selectedRow =
846                 directoryEntryTable.getSelectedRow();
847             VFSDirectoryEntryTableModel model =
848                 (VFSDirectoryEntryTableModel)
849                     directoryEntryTable.getModel();
850             VFSDirectoryEntryTableModel.Entry entry =
851                 model.files[selectedRow];
852             if (!entry.expanded)
853             {
854                 browserView.clearExpansionState();
855                 browserView.loadDirectory(
856                     entry, entry.dirEntry.getPath(), false);
857             }
858         }
859     }
860 });
861 }

```

End review ►

Re-show introduction Pause

```

841
842     if(!startRequest())
843         return;
844
845     Runnable runnable = new Runnable()
846     {
847         @Override
848         public void run()
849         {
850             endRequest();
851             if (selected.length != 0
852                 && selected[0].getType() != VFSFile.FILE)
853             {
854                 VFSDirectoryEntryTable directoryEntryTable =
855                     browserView.getTable();
856                 int selectedRow =
857                     directoryEntryTable.getSelectedRow();
858                 VFSDirectoryEntryTableModel model =
859                     (VFSDirectoryEntryTableModel)
860                         directoryEntryTable.getModel();
861                 VFSDirectoryEntryTableModel.Entry entry =
862                     model.files[selectedRow];
863                 if (!entry.expanded)
864                 {
865                     browserView.clearExpansionState();
866                     browserView.loadDirectory(
867                         entry, entry.dirEntry.getPath(), false);
868                 }
869             }
870         }
871     };
872     Task mkdirTask = new MkdirBrowserTask(
873         this, session, vfs, newDirectory, runnable);
874     ThreadUtilities.runInBackground(mkdirTask);
875 }

```