

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   }

```

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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);

```

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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

```

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/RenameBrowserTask.java

```

1

```

```

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   }

```

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org/experiment/editor/browser/ListDirectoryBrowserTask.java

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  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     *

```

```
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     {
```

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```
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 }
```

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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
```

```
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             setCancelable(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             setCancelable(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                 setCancelable(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 }
```

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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 + "];
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     {
```

[Re-show introduction](#)[Pause](#)

```
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 {
```

```

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 else

```

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```

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

```

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```
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 }
```

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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;
```

```
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             if (!vfs._delete(session, path, browser))
39                 VFSManager.error(browser, path, "ioerror.delete-error",
40 null);
41         }
42         catch (IOException io)
43         {
44             setCancelable(false);
45             Log.log(Log.ERROR, this, io);
46             String[] pp = {io.toString()};
47             VFSManager.error(browser, path, "ioerror.directory-error", pp);
48         }
49         finally
50         {
51             try
```

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```

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",
pp);
61     }
62     }
63 }
64
65 public String toString()
66 {
67     return getClass().getName() + "[type=DELETE"
68         + ",vfs=" + vfs + ",path=" + path +
69         ']';
70 }
71 }

```

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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 }

```

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

```
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 }

```

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 }

```

End review ►