

```

1 // jol/6/files/TextFile.java
2 //
3 //
4 // Copyright 2003 Ethan Bolker and Bill Campbell
5
6 /**
7  * A TextFile is a JFile that holds text.
8  *
9  * @version 6
10 */
11
12 public class TextFile extends JFile
13 {
14     private String contents; // The text itself
15
16     /**
17      * Construct a TextFile with initial contents.
18      *
19      * @param name    the name for this TextFile (in its parent Directory
20      * @param creator the owner of this new TextFile
21      * @param parent  the Directory in which this TextFile lives.
22      * @param initialContents the initial text
23      */
24
25     public TextFile( String name, User creator, Directory parent,
26                     String initialContents )
27     {
28         super( name, creator, parent );
29         setContents( initialContents );
30     }
31
32     /**
33      * Construct an empty TextFile.
34      *
35      * @param name    the name for this TextFile (in its parent Directory
36      * @param creator the owner of this new TextFile
37      * @param parent  the Directory in which this TextFile lives
38      */
39
40     TextFile( String name, User creator, Directory parent )
41     {
42         this( name, creator, parent, "" );
43     }
44
45     /**
46      * The size of a text file is the number of characters stored.
47      *
48      * @return the file's size.
49      */
50
51     public int getSize()
52     {
53         return contents.length();
54     }
55
56     /**

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57      * Suffix used for printing text file names is "".
58      *
59      * @return an empty suffix (for TextFiles).
60      */
61
62     public String getSuffix()
63     {
64         return "";
65     }
66
67     /**
68      * Replace the contents of the file.
69      *
70      * @param contents the new contents.
71      */
72
73     public void setContents( String contents )
74     {
75         this.contents = contents;
76         setModDate();
77     }
78
79     /**
80      * The contents of a text file.
81      *
82      * @return String contents of the file.
83      */
84
85     public String getContents()
86     {
87         return contents;
88     }
89
90     /**
91      * Append text to the end of the file.
92      *
93      * @param text the text to be appended.
94      */
95
96     public void append( String text )
97     {
98         setContents( contents + text );
99     }
100
101     /**
102      * Append a new line of text to the end of the file.
103      *
104      * @param text the text to be appended.
105      */
106
107     public void appendLine( String text )
108     {
109         this.setContents( contents + '\n' + text );
110     }
111
112     }

```