```
1 import java.io.File;
13
14 / * *
15 * Creates a glossary of terms for a given input
17 * @author Gage Farmer
18 *
19 */
20 public final class Glossary {
22
23
       * No argument constructor--private to prevent instantiation.
24
25
      private Glossary() {
26
      }
27
      /**
28
       * Takes term and its definition from the in-file, and formats it properly
29
       * into the out-file.
30
31
32
       * @param in
33
                     input file
       * @param_out
34
35
                     output file
36
       * /
37
      private static void generateTerm(TreeMap<String, String> in,
38
               SimpleWriter out) {
39
40
          String fileName, definition;
41
          out.println("");
42
43
          for (Entry<String, String> entry : in.entrySet()) {
44
               String term = entry.getKey();
45
               if (!term.equals("")) {
46
                   out.println("<a href=\"pages/" + term + ".html\">" + term
47
                           + "</a>");
                   fileName = "data/pages/" + term + ".html";
48
49
                   definition = entry.getValue();
50
                   generateDefinition(term, definition, fileName);
51
               }
52
53
          }
54
          out.println("");
55
56
      }
57
58
       * Takes term and its definition from the in-file, and formats it properly
59
60
       * into the out-file.
61
       * @param in
62
63
                     input file
64
       * @param out
65
                     output file
       * /
66
67
      private static void generateDefinition(String term, String definition,
68
               String fileName) {
69
70
          File file = new File(fileName);
```

```
Thursday, April 13, 2023, 11:43 PM
Glossary.java
 71
            try {
 72
                file.createNewFile();
 73
            } catch (IOException e) {
 74
               // TODO Auto-generated catch block
 75
                e.printStackTrace();
 76
            }
 77
 78
            SimpleWriter out = new SimpleWriter1L(fileName);
 79
           out.println("<i><h1><b style='color:red;'>" + term
 80
 81
                    + "</b></i></h1><br><head>" + definition + "</head>");
 82
            out.println(
 83
                    "<br/>br><br/>Return to <a href=\"javascript:history.back()\">index</a>");
 84
 85
           out.close();
       }
 86
 87
 88
 89
        * turn file into a map.
 90
 91
         * @param in
 92
                      infile
        * @param length
 93
 94
                     length of file
 95
        * @return map!!!!
        * /
 96
 97
       private static TreeMap<String, String> generateMap(SimpleReader in,
 98
                int length) {
 99
            int line = 1, i = 0;
            String next = in.nextLine(), term = "", definition = "";
100
101
           TreeMap<String, String> map = new TreeMap<>();
102
103
           while (line < length) {</pre>
104
                if (!next.equals("")) {
105
106
                    if (i == 0) {
107
                        term = next;
108
                    } else {
109
                        definition = definition + " " + next;
110
111
                   next = in.nextLine();
112
                   line++;
113
                   i++;
114
115
                } else {
116
                   map.put(term, definition);
117
                    term = "";
                    definition = "";
118
119
                    i = 0;
                   next = in.nextLine();
120
121
                    line++;
122
                }
123
124
125
           map.put(term, definition); // brute force get fcked java
126
127
           return map;
128
129
      }
```

```
Glossary.java
                                                        Thursday, April 13, 2023, 11:43 PM
189
           SimpleWriter nameGet = new SimpleWriter1L();
190
191
           nameGet.print("Enter a file name: ");
192
           String fileName = getName.nextLine();
193
194
           // getting file name and stuff
195
           if (!fileName.substring(0, 5).equals("data/")) {
               fileName = "data/" + fileName;
196
197
198
           if (!fileName.substring(fileName.length() - 4, fileName.length() - 3)
199
                   .equals(".")) {
200
               fileName = fileName + ".txt";
201
           }
202
203
           getName.close();
204
           nameGet.close();
205
206
           // i hate comments
207
           int fileLength = (int) countLines(fileName);
208
           SimpleReader in = new SimpleReader1L(fileName);
           SimpleWriter out = new SimpleWriter1L("data/glossary.html");
209
210
           TreeMap<String, String> map;
211
212
          map = generateMap(in, fileLength);
213
           generateHeader(out);
214
           generateTerm(map, out);
215
216
           in.close();
217
           out.close();
218
      }
219
220 }
221
```