

HelpFrame.java

```
1 package catan;
2
3 import java.awt.BorderLayout;
20
21 /**
22  * This is the window holding all of the help stuff.
23  *
24  * @author Nicole Downer
25  * @author Eddie Gurnee
26  * @version 0.0.06 11/16/2013
27  * @since 11/12/2013
28  */
29 public class HelpFrame extends JFrame {
30     private final int WIDTH = 600;
31     private final int HEIGHT = 400;
32
33     private int helpIndex = 0;
34
35     private ArrayList<String> helpData;
36     private ArrayList<String> foundHelp;
37     private ArrayList<String> refinedHelp;
38
39     private boolean refined;
40
41     JTextArea discoveredHelp = new JTextArea("");
42     JButton nextBtn = new JButton("Next Search Result");
43     JButton lastBtn = new JButton("Previous Search Result");
44     JPanel bottomBtns = new JPanel();
45
46     public HelpFrame() {
47         super("Settler's of Catan - Help");
48
49         this.setResizable(false);
50         setSize(WIDTH, HEIGHT);
51         setLocationRelativeTo(null);
52         setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
53         getContentPane().setBackground(Color.ORANGE);
54         setLayout(new BorderLayout(5, 5));
55
56         JPanel rightSide = new JPanel();
57         rightSide.setLayout(new BoxLayout(rightSide, BoxLayout.Y_AXIS));
58         add(rightSide, BorderLayout.EAST);
59
60         JButton loadHelp = new JButton("Reload Help");
61         JButton searchHelp = new JButton("Search Help");
62         JButton browseHelp = new JButton("Browse Help");
63         loadHelp.addActionListener(new LoadHelpListener());
64         searchHelp.addActionListener(new SearchHelpListener());
65         browseHelp.addActionListener(new BrowseHelpListener());
66
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67     rightSide.add(searchHelp);
68     rightSide.add(browseHelp);
69     rightSide.add(loadHelp);
70
71     this.helpData = new ArrayList<String>();
72
73     this.load();
74
75     JPanel leftSide = new JPanel();
76     leftSide.setLayout(new BorderLayout());
77     add(leftSide, BorderLayout.WEST);
78     leftSide.add(discoveredHelp, BorderLayout.CENTER);
79     this.discoveredHelp.setTabSize(3);
80
81     nextBtn.addActionListener(new ScrollHelpListener(true));
82     lastBtn.addActionListener(new ScrollHelpListener(false));
83     // add(discoveredHelp, BorderLayout.WEST);
84
85     add(this.bottomBtns, BorderLayout.SOUTH);
86     bottomBtns.add(lastBtn);
87     bottomBtns.add(nextBtn);
88 }
89
90 /**
91  * @author Nicole Downer
92  * @author Eddie Gurnee
93  * @version 0.0.03 11/17/2013
94  * @since 11/14/2013
95  */
96 private void load() {
97     Scanner infile = null;
98     try {
99         infile = new Scanner(new FileInputStream(new File("GLOSSARY.txt")));
100         while (infile.hasNextLine()) {
101             String line = infile.nextLine();
102             int start = line.indexOf("<!BS@>");
103
104             if (start > -1) {
105                 String data = "";
106
107                 while (true) {
108                     String temp = infile.nextLine() + "\n";
109                     int end = temp.indexOf("<\/!BS@>");
110                     if (end == -1) {
111                         data += temp;
112                     } else {
113                         break;
114                     }
115                 }
116                 helpData.add(data);

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117         }
118     }
119     } catch (FileNotFoundException ex) {
120         ex.printStackTrace();
121     } finally {
122         infile.close();
123     }
124 }
125
126 /**
127  * @author Nicole Downer
128  * @author Eddie Gurnee
129  * @param searchTerm
130  * @version 0.0.02 11/16/2013
131  * @since 11/15/2013
132  */
133 private void search(String searchTerm) {
134     searchTerm = searchTerm.toLowerCase();
135     this.foundHelp = new ArrayList<String>();
136     this.refinedHelp = new ArrayList<String>();
137     this.refined = false;
138
139     this.helpIndex = 0;
140     for (String s : this.helpData) {
141         String tempStr = s.toLowerCase();
142         if (tempStr.indexOf(searchTerm) > -1) {
143             this.foundHelp.add(s);
144         }
145     }
146     if (this.foundHelp.size() == 0) {
147         this.foundHelp.add("Your search term was not found.");
148     }
149     this.discoveredHelp.setText(foundHelp.get(this.helpIndex));
150     if (this.foundHelp.size() > 5) {
151         int n = JOptionPane
152             .showConfirmDialog(
153                 null,
154                 "There are "
155                     + foundHelp.size()
156                     + " results found."
157                     + "\nWould you like to refine your search with
another term?",
158                 "Refine Search", JOptionPane.YES_NO_OPTION,
159                 JOptionPane.QUESTION_MESSAGE, null);
160         if (n == 0) {
161             String term = (String)JOptionPane.showInputDialog(null,
162                 "Enter search term:", "Search",
163                 JOptionPane.PLAIN_MESSAGE);
164             this.refined = true;
165             this.refineSearch(term);

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166     }
167 }
168 }
169
170 /**
171  * @author Eddie Gurnee
172  * @author Nicole Downer
173  * @param searchTerm
174  * @version 0.0.01 11/17/2013
175  * @since 11/17/2013
176  */
177 private void refineSearch(String searchTerm) {
178     searchTerm = searchTerm.toLowerCase();
179     this.refinedHelp = new ArrayList<String>();
180     this.helpIndex = 0;
181     for (String s : this.foundHelp) {
182         String tempStr = s.toLowerCase();
183         if (tempStr.indexOf(searchTerm) > -1) {
184             this.refinedHelp.add(s);
185         }
186     }
187     if (this.refinedHelp.size() == 0) {
188         this.refinedHelp.add("Your search term was not found.");
189     }
190     this.discoveredHelp.setText(this.refinedHelp.get(this.helpIndex));
191 }
192
193 /**
194  * @author Eddie Gurnee
195  * @author Nicole Downer
196  * @version 0.0.03 11/16/2013
197  * @since 11/15/2013
198  */
199 private class LoadHelpListener implements ActionListener {
200
201     @Override
202     public void actionPerformed(ActionEvent e) {
203         HelpFrame.this.load();
204     }
205 }
206 private class ScrollHelpListener implements ActionListener {
207     private boolean forward;
208
209     private ScrollHelpListener(boolean forward) {
210         this.forward = forward;
211     }
212
213     @Override
214     public void actionPerformed(ActionEvent e) {
215         if (forward) {

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216         if (!HelpFrame.this.refined) {
217             if (HelpFrame.this.helpIndex < HelpFrame.this.foundHelp
218                 .size() - 1) {
219                 HelpFrame.this.helpIndex++;
220                 HelpFrame.this.discoveredHelp.setText(foundHelp
221                     .get(HelpFrame.this.helpIndex));
222             }
223         } else {
224             if (HelpFrame.this.helpIndex < HelpFrame.this.refinedHelp
225                 .size() - 1) {
226                 HelpFrame.this.helpIndex++;
227                 HelpFrame.this.discoveredHelp.setText(refinedHelp
228                     .get(HelpFrame.this.helpIndex));
229             }
230         }
231     } else {
232         if (!HelpFrame.this.refined) {
233             if (HelpFrame.this.helpIndex > 0) {
234                 HelpFrame.this.helpIndex--;
235                 HelpFrame.this.discoveredHelp.setText(foundHelp
236                     .get(HelpFrame.this.helpIndex));
237             }
238         } else {
239             if (HelpFrame.this.helpIndex > 0) {
240                 HelpFrame.this.helpIndex--;
241                 HelpFrame.this.discoveredHelp.setText(refinedHelp
242                     .get(HelpFrame.this.helpIndex));
243             }
244         }
245     }
246 }
247
248 private class SearchHelpListener implements ActionListener {
249
250     @Override
251     public void actionPerformed(ActionEvent e) {
252         String term = (String)JOptionPane.showInputDialog(null,
253             "Enter search term:", "Search", JOptionPane.PLAIN_MESSAGE);
254
255         HelpFrame.this.search(term);
256     }
257 }
258 private class BrowseHelpListener implements ActionListener {
259
260     @Override
261     public void actionPerformed(ActionEvent e) {
262         HelpFrame.this.search(" ");
263     }
264 }
265 }

```