```
import java.io.*;
import java.util.*;
4 5
            import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
            /**

* NNEED TO HAVE HANGMAN PICS

* This Hangman Game was create to be the final challenge once the player

* has traversed through the game map and has made it through all the sma

* challenges. The Hangman Gui works by doing most of the work in the
actionListener

* as the action listener is a continuous loop itself depending on the num

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* as the action listener is a continuous loop itself 
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12
             * as the action listner is a continuous loop itself depending on the number of clicks.
13
             * The way it works (AS OF NOW AND SUBJECT TO UPDATE) is that we have given the user the freedom
14
            * to continue inputing things even though it is determined that they have won or lost. There
15
16
                      had to be several changes seeing as how the gui reacts differently with its use
            of
                 * textfield/listeners instead of scanners
18
            public class THangmanGui{
20
                     //variables that are not data types
                   private String phrase;
private final static int MAX_ERRORS = 7;
private int errors;
private String gueDisplay;
private Boolean wonLost;
22
23
25
26
27
28
                  //objects for gui
private JPanel test;
private JFrame frame;
///////above are temps
private JTextField letterInput;
private JLabel img;
private JLabel imstructionsTxt;
private JLabel gameTxt;
private JLabel question;
private JLabel currentGuesses;
private JLabel errorsLeft;
private JLabel incorrectInput;
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36
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38
39
41
                    //data that needs to be accessed by the actionListener
                   private LinkedList<String> uniqueLetters;
private LinkedList<String> guesses;
private LinkedList<String> correctGuesses;
46
47
48
49
51
52
53
                   public THangmanGui(String p){ //will take in the frame and the panel
                          phrase = p.toLowerCase();
errors = MAX ERRORS;
gueDisplay = displayDisguise(guesses);
wonLost = false;
54
55
56
57
58
                           //temporary-----
test = new JPanel();
frame = new JFrame();
59
60
61
                           frame.setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
frame.setPreferredSize(new Dimension(870,700));
62
63
                           frame.setTitle("Adventure Time");
//frame.setResizable(false);
//temporary------
64
65
66
67
68
69
71
72
73
74
75
77
77
77
                          letterInput = new JTextField(20);
room = new ImageIcon(hangmanGraphics(MAX_ERRORS));
JLabel img = new JLabel(room);
instructionsTxt = new JLabel("");
gameTxt = new JLabel("");
question = new JLabel("");
currentGuesses = new JLabel("");
errorsLeft = new JLabel("");
incorrectInput = new JLabel("");
                           uniqueLetters = makeUniqueLetters();
guesses = new LinkedList<String>();
correctGuesses = new LinkedList<String>();
80
81
82
83
                    }
                       * @return string of a jpg picture * */
85
                   public String hangmanGraphics(int w){
   String s = "hangmanPic" + w + ".jpg";
   return s;
86
87
88
             /Users/s160540/Desktop/FINALPROJECT_lluo_jaguilar_avalle/FinalProject/THangmanGui.java 1
```

```
90
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94
           /**
    * @return LinkedList holding the letters(no duplicates)
    * of the phrase
    * */
95
96
97
98
         public LinkedList<String> makeUniqueLetters(){
  LinkedList<String> uqLetters = new LinkedList<String>();
     String temp = phrase.replace(" ","");//makes sure no spaces are considered a
character that needs to be guesses
  int i = 0;
  while (temp.length() > 0 ){
100
101
     String ch = Character.toString(temp.charAt(0));//gets the first character
always and turns it into a string
    uqLetters.add(ch);
104
105
106
     temp = temp.replace(ch ,"'
character preventing duplicates
    i++;
                                                        ("");//gets rid of all characters that equal the first
107
108
109
            return uqLetters;
110
111
112
113
114
115
          * @return String that disguises the letters of the phrase and shows * the letters that the user has correctly guessed * */
116
117
118
119
         public String displayDisguise(LinkedList<String> foundLetters){
120
121
122
123
124
125
126
127
128
129
130
            System.out.println("Entering");
            for (int i = 0; i < phrase.length(); i++){
                String charact = Character.toString(phrase.charAt(i));
               if (foundLetters != null) {
   if (foundLetters.contains(charact)) {
      s += charact;
   }else if (phrase.charAt(i) == ' ') {
      s += "    ";
   }else {
      s += " ";
   }
}
131
132
133
134
135
136
137
138
139
140
141
142
144
145
146
147
                }else if (phrase.charAt(i) == ' '){
s += "  ";
}else {
s += " _ ";
                }
            return s;
          * @return boolean SUBJECT TO CHANGE
* AŞ THE GUI CHANGES EVERYTHING
148
149
150
151
152
         public boolean playHangman(){
153
154
155
156
157
            //test.add(img);
     instructionsTxt.setText("<html>You are almost there! All you have to do now is win this game by guessing the"+
... Z John was "" correct letters in the phrase and without getting more
158
159
     than 7 letters wrong."+

"Your boo's life hangs by a thread. Hurry" +

" up and save him!</html>");

test.add(instructionsTxt);
160
161
162
163
      gameTxt.setText("<html><font size = '5' face ='Courier New'>"+ gueDisplay +"
</font></html>");
165
             nt></html>");
test.add(gameTxt);
166
167
168
169
170
171
172
            question.setText("What is your guess?");
test.add(question);
            currentGuesses.setText("<html>Guesses So Far : "+ quesses+"</html>");
173
174
175
176
            test.add(currentGuesses);
            errorsLeft.setText("<html>Errors Left : "+ errors +"</html>");
test.add(errorsLeft);
      /Users/s160540/Desktop/FINALPROJECT_lluo_jaguilar_avalle/FinalProject/THangmanGui.java
```

```
178
179
               test.add(incorrectInput);
180
181
182
               frame.add(test);
frame.setVisible(true);
183
184
185
186
187
188
190
191
192
193
194
195
197
198
               eventBox eveB = new eventBox();
letterInput.addActionListener(eveB);
test.add(letterInput);
               return wonLost;
           }
             * ActionListener where most of the game goes on
* Game continues on as the user continues
* and user has the liberty to stop or not at any time
199
200
           public class eventBox implements ActionListener{
  public void actionPerformed(ActionEvent eveB)
201
202
203
                    System.out.println("enters the action");
String input = letterInput.getText().toLowerCase();
204
205
206
207
      208
                                                                         "one letter and has not been used before.</html>");
210
211
212
213
214
215
216
217
                    }else{
  incorrectInput.setText("");
  guesses.add(input);
                        if(uniqueLetters.contains(input)){
  correctGuesses.add(input);
  queDisplay = displayDisguise(correctGuesses);
}else{
  errors--;
}
218
219
220
221
222
       //img.setIcon(new ImageIcon(hangmanGraphics(0)));
    gameTxt.setText("<html><font size = '5' face = 'Courier New'>"+ gueDisplay
+"</font></html>");
    currentGuesses.setText("<html>Guesses So Far : "+ guesses+"</html>");
    errorsLeft.setText("<html>Errors Left : "+ errors +"</html>");
223
224
225
226
227
228
229
231
232
233
234
235
236
237
                   }
                          if(gueDisplay.equals(phrase)){
  wonLost = true;
  //change icon to a winner thing??
                          //i dont think this one is needed???-----
}else if(errors == 0){
   //have a you lose sorrry text?
   System.out.println("you lose");
238
239
240
241
242
                          frame.getContentPane().validate();
frame.getContentPane().repaint();
243
244
245
246
247
248
250
251
252
253
           }
           public static void main(String[] args){
   // System.out.println(Character.isLetter(""));
   //Character.isLetter(gue.charAt(0))
               THangmanGui x = new THangmanGui("Hello World");
               System.out.println(x.playHangman());
255
```