

# **Informatics Institute of technology**

### **Coursework 1** – Guess the Word Game

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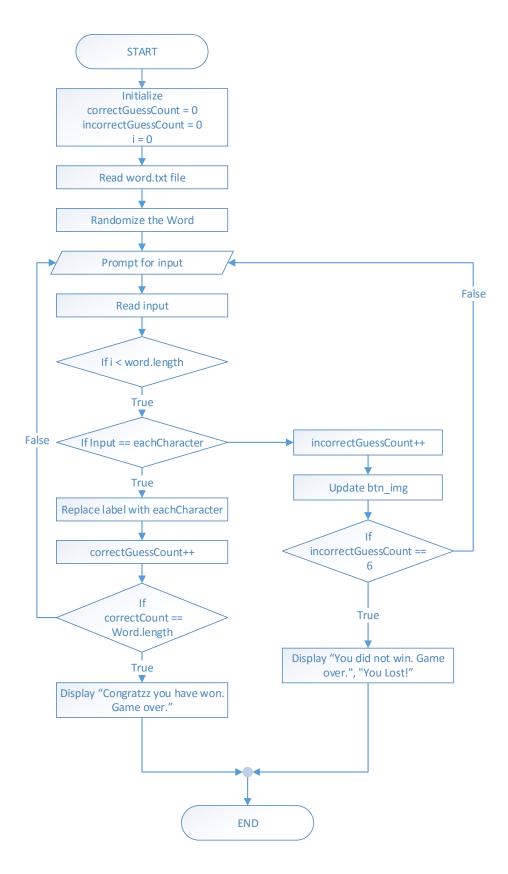
**UoW ID:** - 15830638

Course: - BSc [Hons] Computer Science

Module Code: - ECSC410

Module Name: - Software Development Principles 1

## Flowchart



#### Pseudocodes

#### SDP1\_GuessWordCW

```
1
      initialize correctGuessCount = 0
      initialize incorrectGuessCount = 0
2
3
      initialize i = 0
4
      Read word.txt file
      Ramdomize the word
5
6
      Get Input
7
      if i < word
         if input equals to eachCharacter
8
9
               Replace label with eachCharacter
               correctGuessCount++
10
11
               If correctGuessCount equals to word length
                     Display "Congratzz you have won. Game over."
12
13
         Else
14
               incorrectGuessCount++
               Update btn_img
15
               If incorrectGuessCount equals to 6
16
               Display "You did not win. Game over."
17
18
      END
```

#### Source Codes

```
package sdpl_guesswordcw;
import java.io.*;
import java.util.*;
import javax.swing.*;
/**

* @author HuSsAiN
*/
public class SDP1_GuessWorkCW extends javax.swing.JFrame {
    /**
    * Creates new form SDP1_GuessWorkCW
    */
    public SDP1_GuessWorkCW() {
        initComponents();

        limitLabel();
        ImageIcon defaultGuessWord = new ImageIcon(getClass().getResource("GuessWord1.png"));
        btn_img.setIcon(defaultGuessWord);
        btn_img.setVisible(true);
}
```

```
Generated Code
public List wordList = new ArrayList();
public String word;
public int incorrectGuessCount = 0;
public int correctGuessCount = 0;
public void readFile() {
   try{
       File f = new File("C:\\Users\\HuSsAiN\\Desktop\\SDP1 GuessWordCW\\src\\sdp1 guesswordcw\\words.txt");
        Scanner readFile = new Scanner(f);
        while (readFile.hasNext()) {
           wordList.add(readFile.next().toLowerCase());
    }catch(FileNotFoundException ex) {
       JOptionPane.showMessageDialog(rootPane, ex, "ERROR", JOptionPane.ERROR MESSAGE);
public void setWordLetter() {
   int RandomWordList = (int) (Math.random() * 6);
   word = wordList.get(RandomWordList).toString().toLowerCase();
```

```
private void btn_tryLetterActionPerformed(java.awt.event.ActionEvent evt) {
    char[] eachCharc = new char[10];
    int countEachCharc = 0;
    while (countEachCharc<word.length()) {
        eachCharc[countEachCharc] = word.charAt(countEachCharc);
        countEachCharc++;
    }</pre>
```

```
try{
int count=0;
char guessedCharc = txt GuessLetter.getText().charAt(0);
for(int i = 0;i < word.length();i++){
    if (guessedCharc == eachCharc[i]) {
    switch (i) {
        case 0:
            lblChar1.setText(""+guessedCharc);
            break;
        case 1:
            lblChar2.setText(""+guessedCharc);
            break;
        case 2:
            lblChar3.setText(""+guessedCharc);
            break:
        case 3:
            lblChar4.setText(""+guessedCharc);
            break;
        case 4:
            lblChar5.setText(""+quessedCharc);
            break:
        case 5:
            lblChar6.setText(""+guessedCharc);
           break;
        case 6:
            lblChar7.setText(""+guessedCharc);
        case 7:
           lblChar8.setText(""+guessedCharc);
            break;
        case 8:
           lblChar9.setText(""+quessedCharc);
            break;
        case 9:
            lblChar10.setText(""+guessedCharc);
           break;
       default:
       correctGuessCount++;
    }else{
        count++;
txt GuessLetter.setText("");
if (count == word.length()) {
   incorrectGuessCount++;
   lblCount.setText("" + (incorrectGuessCount));
```

```
if (correctGuessCount == word.length()) {
       JOptionPane.showMessageDialog(rootPane, "Congratzz you have won. Game over.", "Congratulations! :D", JOptionPane.INFORMATION MESSAGE);
         System.exit(0);
   }catch(Exception ee) {
     JOptionPane.shovMessageDialog(rootPane, "Enter a Letter", "ERROR", JOptionPane.ERROR MESSAGE);
   1
   switch (incorrectGuessCount) {
       case 1:
           ImageIcon guessWord1 = new ImageIcon(getClass().getResource("GuessWord2.png"));
           btn img.setIcon(guessWord1);
           break;
       case 2:
           ImageIcon guessWord2 = new ImageIcon(getClass().getResource("GuessWord3.png"));
           btn img.setIcon(guessWord2);
           break:
       case 3:
           ImageIcon guessWord3 = new ImageIcon(getClass().getResource("GuessWord4.png"));
           btn img.setIcon(guessWord3);
           break;
       case 4:
           ImageIcon guessWord4 = new ImageIcon(getClass().getResource("GuessWord5.png"));
           btn img.setIcon(guessWord4);
           break;
       case 5:
           ImageIcon guessWord5 = new ImageIcon(getClass().getResource("GuessWord6.png"));
           btn img.setIcon(guessWord5);
           break;
       case 6:
           ImageIcon guessWord6 = new ImageIcon(getClass().getResource("GuessWord7.png"));
           btn img.setIcon(guessWord6);
           lbl hint.setText(word);
           JOptionPane.showMessageDialog(rootPane, "You did not win. Game over.", "You Lost!", JOptionPane.INFORMATION MESSAGE);
           System.exit(0);
       default:
           break;
private void btn quitActionPerformed(java.awt.event.ActionEvent evt) {
    int quit = JOptionPane.showConfirmDialog(null, "Are you sure you want to quit?", "Quit game", JOptionPane.YES NO OPTION);
        if (quit == JOptionPane. YES OPTION) {
            System.exit(0);
private void txt GuessLetterKeyTyped(java.awt.event.KeyEvent evt) {
      if (txt GuessLetter.getText().length() >=1) {
           evt.consume();
      }
```

```
private void limitLabel() {
    readFile();
    setWordLetter();
    switch (word.length()) {
        case 3:
            lblChar10.setVisible(false);
            lblChar9.setVisible(false);
            lblChar8.setVisible(false);
            lblChar7.setVisible(false);
            lblChar6.setVisible(false);
            lblChar5.setVisible(false);
            lblChar4.setVisible(false);
            break:
        case 4:
            lblChar10.setVisible(false);
            lblChar9.setVisible(false);
            lblChar8.setVisible(false);
            lblChar7.setVisible(false);
            lblChar6.setVisible(false);
            lblChar5.setVisible(false);
            break;
        case 5:
            lblChar10.setVisible(false);
            lblChar9.setVisible(false);
            lblChar8.setVisible(false);
            lblChar7.setVisible(false);
            lblChar6.setVisible(false);
            break;
```

```
case 6:
    lblChar10.setVisible(false);
    lblChar9.setVisible(false);
    lblChar8.setVisible(false);
    lblChar7.setVisible(false);
   break:
case 7:
    lblChar10.setVisible(false);
    lblChar9.setVisible(false);
    lblChar8.setVisible(false);
    break;
case 8:
    lblChar10.setVisible(false);
    lblChar9.setVisible(false);
    break;
case 9:
    lblChar10.setVisible(false);
    default:
    break:
```

```
// Variables declaration - do not modify
private javax.swing.JButton btn img;
private javax.swing.JButton btn quit;
private javax.swing.JButton btn tryLetter;
private javax.swing.JPanel jPanel1;
private javax.swing.JLabel lblChar1;
private javax.swing.JLabel lblChar10;
private javax.swing.JLabel lblChar2;
private javax.swing.JLabel lblChar3;
private javax.swing.JLabel lblChar4;
private javax.swing.JLabel lblChar5;
private javax.swing.JLabel lblChar6;
private javax.swing.JLabel lblChar7;
private javax.swing.JLabel lblChar8;
private javax.swing.JLabel lblChar9;
private javax.swing.JLabel lblCount;
private javax.swing.JLabel lbl hint;
private javax.swing.JLabel 1bl inco;
private javax.swing.JLabel lbl times;
private javax.swing.JTextField txt GuessLetter;
// End of variables declaration
```

### Designing



### Testing

