U UDACITY

PROJECT

Quiz App

A part of the Android Basics Nanodegree by Google Program

PROJECT REVIEW
CODE REVIEW 6
NOTES

▶ **app/src/main/res/layout/activity_main.xml**   3

▼ **app/src/main/java/com/example/android/wukillaquiz/MainActivity.java**   2

```java
1  package com.example.android.wukillaquiz;
2
3  import android.os.PersistableBundle;
4  import android.support.v7.app.AppCompatActivity;
5  import android.os.Bundle;
6  import android.view.View;
7  import android.widget.Button;
8  import android.widget.CheckBox;
9  import android.widget.EditText;
10 import android.widget.RadioButton;
11 import android.widget.TextView;
12 import android.widget.Toast;
13
14 public class MainActivity extends AppCompatActivity {
15     private Button submitButton;
16     private TextView answer1TextView;
17     private TextView answer2TextView;
18     private TextView answer3TextView;
19     private TextView answer4TextView;
20     private TextView resultsTextView;
21     private RadioButton question1NoRadioButton;
22     private EditText question2editText;
23     private RadioButton question3yesButton;
24     private CheckBox question4Ghostface;
25     private CheckBox question4Meth;
26     private boolean buttonSubmited = false;
27
28     @Override
29     protected void onCreate(Bundle savedInstanceState) {
```

```
30          super.onCreate(savedInstanceState);
31          setContentView(R.layout.activity_main);
32
33          submitButton = (Button) findViewById(R.id.submit_button);
34          answer1TextView = (TextView) findViewById(R.id.question_1_answer_text_view
35          answer2TextView = (TextView) findViewById(R.id.question_2_answer_text_view
36          answer3TextView = (TextView) findViewById(R.id.question_3_answer_text_view
37          answer4TextView = (TextView) findViewById(R.id.question_4_answer_text_view
38          resultsTextView = (TextView) findViewById(R.id.results_text_view);
39
40          question1NoRadioButton = (RadioButton) findViewById(R.id.question_1_no_but
41          question2editText = (EditText) findViewById(R.id.question_2_edit_text);
42          question3yesButton = (RadioButton) findViewById(R.id.question_3_yes_button
43          question4Ghostface = (CheckBox) findViewById(R.id.question_4_checkbox_ghos
44          question4Meth = (CheckBox) findViewById(R.id.question_4_checkbox_methodman
45
46
47          submitButton.setOnClickListener((new View.OnClickListener() {
48              @Override
49              public void onClick(View view) {
50                  buttonSubmited = true;
51                  int rightAnswers = countRightAnswers();
52                  viewRightAnswers();
53                  viewResultsToasted(rightAnswers);
54                  viewResults(rightAnswers);
55              }
56          }));
```

AWESOME

Perfect use of click listeners!

```
57      }
58
59      private void viewResultsToasted(int rightAnswers) {
60          String text = "Finish! Right answers: " + rightAnswers + "/5";
61          Toast.makeText(getApplication(), text, Toast.LENGTH_SHORT).show();
62      }
63
64      private void viewResults(int rightAnswers) {
65          resultsTextView.setText("Finish! Right answers: " + rightAnswers + "/5");
66
67      }
68
69      private int countRightAnswers() {
70          int counter = 0;
71          if (question1NoRadioButton.isChecked()){
72              counter++;
73          } if (question2editText.getText().toString().equalsIgnoreCase("R")){
74              counter++;
75          } if (question3yesButton.isChecked()){
76              counter++;
77          } if (question4Ghostface.isChecked()){
78              counter++;
79          } if (question4Meth.isChecked()){
80              counter++;
81          }
82          return counter;
83      }
84
85      private void viewRightAnswers() {
86          answer1TextView.setText(getString(R.string.answer1));
            answer2TextView.setText(getString(R.string.answer2));
```

```
88          answer3TextView.setText(getString(R.string.answer3));
89          answer4TextView.setText(getString(R.string.answer4));
90      }
91
92      @Override
93      public void onSaveInstanceState(Bundle outState) {
94          super.onSaveInstanceState(outState);
95          outState.putBoolean("buttonSubmited", buttonSubmited);
96          outState.putInt("num", countRightAnswers());
97      }
98
99      @Override
100     protected void onRestoreInstanceState(Bundle savedInstanceState) {
101         super.onRestoreInstanceState(savedInstanceState);
102         int count = savedInstanceState.getInt("num");
103         boolean buttonSubmited = savedInstanceState.getBoolean("buttonSubmited");
104         if (buttonSubmited == true){
105             viewResults(count);
106             viewRightAnswers();
107         }
108
109
110     }
```

▲

AWESOME

Quite impressive. You did a great job by implementing this callback function. It's always useful to impl
resume your app.

```
111 }
112
```

▶ app/src/main/res/values/strings.xml   1

▶ settings.gradle

▶ build.gradle

▶ app/src/test/java/com/example/android/wukillaquiz/ExampleUnitTest.java

▶ app/src/main/res/values/styles.xml

▶ app/src/main/res/values/colors.xml

▶ app/src/main/res/mipmap-anydpi-v26/ic_launcher_round.xml

▶ app/src/main/res/mipmap-anydpi-v26/ic_launcher.xml

▶ app/src/main/res/drawable-v24/ic_launcher_foreground.xml

▶ app/src/main/res/drawable/ic_launcher_background.xml

▸ app/src/main/AndroidManifest.xml

▸ app/src/androidTest/java/com/example/android/wukillaquiz/ExampleInstrumentedTest.java

▸ app/build.gradle

RETURN TO PATH

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