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1: package com.delta.persistence;
2:
3: import android.app.Activity;
4: import android.content.Context;
5: import android.content.SharedPreferences;
6: import android.os.Bundle;
7: import android.util.Log;
8: import android.view.Menu;
9: import android.view.MenuItem;
10: import android.widget.ScrollView;
11: import android.widget.TextView;
12: import android.widget.Toast;
13:
14: import org.w3c.dom.Text;
15:
16: import java.io.FileInputStream;
17: import java.io.FileNotFoundException;
18: import java.io.FileOutputStream;
19: import java.io.IOException;
20:
21: public class PersistenceActivity extends Activity {
22:
23:
24:     TextView readingView;
25:     TextView appRestartsView;
26:
27:     private int howManyTimesBeenRun = 0;
28:     private static final String NUMBER_OF_TIMES_RUN_KEY = "NUMBER_OF_TIMES_RUN_KEY";
29:
30:     @Override
31:     protected void onCreate(Bundle savedInstanceState) {
32:         super.onCreate(savedInstanceState);
33:         setContentView(R.layout.activity_persistence);
34:
35:         readingView = (TextView) findViewById(R.id.displayView);
36:         appRestartsView = (TextView) findViewById(R.id.applicationRestarts);
37:
38:         SharedPreferences sharedPreferences = getPreferences(Context.MODE_PRIVATE);
39:
40:         //read
41:         int defaultValue = 0;
42:         howManyTimesBeenRun = sharedPreferences.getInt(NUMBER_OF_TIMES_RUN_KEY,defaultValue);
43:
44:         //first time message
45:         if(howManyTimesBeenRun == 0){
46:             Toast.makeText(this,"Welcome to your new magic notepad!", Toast.LENGTH_LONG).show();
47:         }
48:         howManyTimesBeenRun++;
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49:
50:     //write
51:     SharedPreferences.Editor editor = sharedPreferences.edit();
52:     editor.putInt(NUMBER_OF_TIMES_RUN_KEY,howManyTimesBeenRun);
53:     editor.commit();
54:
55:     appRestartsView.setText(String.valueOf(howManyTimesBeenRun));
56:
57:
58: }
59:
60: @Override
61: protected void onPause() {
62:     super.onPause();
63:     saveTextFile(readingView.getText().toString());
64: }
65:
66: @Override
67: protected void onResume() {
68:     super.onResume();
69:     readingView.setText(getTextFile());
70: }
71:
72: private static final String DATA_FILE = "my_file";
73:
74: //Reading and Writing
75:
76: public String getTextFile() {
77:
78:     FileInputStream fileInputStream = null;
79:     String fileData = null;
80:
81:     try{
82:         fileInputStream = openFileInput(DATA_FILE);
83:         int size = fileInputStream.available();
84:         byte[] buffer = new byte[size];
85:         fileInputStream.read(buffer);
86:         fileInputStream.close();
87:         fileData = new String(buffer,"UTF-8");
88:     }catch(FileNotFoundException e){
89:         Log.e("FILE","Couldnt find that file");
90:         e.printStackTrace();
91:     }catch(IOException e){
92:         Log.e("FILE","Error");
93:         e.printStackTrace();
94:     }finally{
95:         try{
96:             if(fileInputStream != null){
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97:         fileInputStream.close();
98:     }
99:     }catch(IOException e){
100:         e.printStackTrace();
101:     }
102: }
103: return fileData;
104:
105: }
106:
107: public void saveTextFile(String content) {
108:
109:     FileOutputStream fileOutputStream = null;
110:
111:     try{
112:         fileOutputStream = openFileOutput(DATA_FILE,Context.MODE_PRIVATE);
113:         fileOutputStream.write(content.getBytes());
114:     }catch(FileNotFoundException e){
115:         Log.e("FILE","Couldnt find that file");
116:         e.printStackTrace();
117:     }catch(IOException e){
118:         Log.e("FILE","IO Error");
119:         e.printStackTrace();
120:     }finally{
121:         try{
122:             if(fileOutputStream != null){
123:                 fileOutputStream.close();
124:             }
125:         }catch(IOException e){
126:             e.printStackTrace();
127:         }
128:     }
129: }
130:
131: @Override
132: public boolean onCreateOptionsMenu(Menu menu) {
133:
134:     // Inflate the menu; this adds items to the action bar if it is present.
135:     getMenuInflater().inflate(R.menu.persistence, menu);
136:     return true;
137: }
138:
139: @Override
140: public boolean onOptionsItemSelected(MenuItem item) {
141:     // Handle action bar item clicks here. The action bar will
142:     // automatically handle clicks on the Home/Up button, so long
143:     // as you specify a parent activity in AndroidManifest.xml.
144:     int id = item.getItemId();
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145:         if (id == R.id.action_settings) {
146:             return true;
147:         }
148:         return super.onOptionsItemSelected(item);
149:     }
150:
151: }
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