Nizar Sanchez (2018-6482)

Realizar otra aplicación que me de 4 categorias en checkbox ejemplo. música, carro, calle, persona, y si selecciono música y carro y presiono el botón me muestre una imagen de un carro con música.. si selecciono persona y carro me muestre una persona en un carro y así sucesivamente,

si presiono ver info me muestro una foto suya con su nombre y matricula en un alert personalizado.

AndroidManifiest.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest
xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.tarea4">
    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action
android:name="android.intent.action.MAIN" />
                <category
android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

AboutDialog.java

```java
package com.example.tarea4;

import android.app.AlertDialog;
import android.app.Dialog;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.widget.ImageView;
import android.widget.TextView;
import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.DialogFragment;
public class AboutDialog extends DialogFragment {
    @NonNull
    @Override
    public Dialog onCreateDialog(@Nullable Bundle savedInstanceState) {
        AlertDialog.Builder dialogBuilder = new AlertDialog.Builder(getContext());
        View view = LayoutInflater.from(getActivity()).inflate(R.layout.about_dialog,null);
        ImageView imageView = view.findViewById(R.id.imageViewProfile);
        imageView.setImageResource(R.drawable.profile);
        dialogBuilder.setView(view);
        dialogBuilder.setTitle(R.string.about);
        dialogBuilder.setPositiveButton(R.string.ok,null);
        AlertDialog alertDialog = dialogBuilder.create();
        return alertDialog;
    }
}
```

MainActivity.java

```java
package com.example.tarea4;
import androidx.appcompat.app.AppCompatActivity;
import androidx.fragment.app.Fragment;
import androidx.fragment.app.FragmentManager;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        FragmentManager fragmentManager =
getSupportFragmentManager();
        Fragment fragment =
fragmentManager.findFragmentById(R.id.fragment_container);
        if(fragment==null){
            fragment = new MainFragment();

fragmentManager.beginTransaction().add(R.id.fragment_contai
ner,fragment)
                    .commit();
        }
    }
}
```

MainFragment.java

```java
package com.example.tarea4;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.CompoundButton;
import android.widget.ImageView;
import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;
```

```java
import androidx.fragment.app.FragmentManager;
public class MainFragment extends Fragment implements
CompoundButton.OnClickListener {
    private static final String DIALOG_ABOUT = "DialogAbout";
    private static final String CURRENT_IMAGE =
"CurrentImage";
    private CheckBox mCheckBoxMusic;
    private CheckBox mCheckBoxCar;
    private CheckBox mCheckBoxPerson;
    private CheckBox mCheckBoxStreet;
    private int mImageResource;
    private ImageView mImageView;
    private Button mButtonAbout;
    @Nullable
    @Override
    public View onCreateView(@NonNull LayoutInflater
inflater, @Nullable ViewGroup container, @Nullable Bundle
savedInstanceState) {
        View view =
inflater.inflate(R.layout.main_fragment,null,false);
        mCheckBoxMusic =
view.findViewById(R.id.checkBoxMusic);
        mCheckBoxStreet =
view.findViewById(R.id.checkBoxStreet);
        mCheckBoxPerson =
view.findViewById(R.id.checkBoxPerson);
        mCheckBoxCar = view.findViewById(R.id.checkBoxCar);
        mButtonAbout = view.findViewById(R.id.btn_about);
        mImageView = view.findViewById(R.id.imageView);
        if(savedInstanceState!=null){
            mImageResource =
savedInstanceState.getInt(CURRENT_IMAGE);
            mImageView.setImageResource(mImageResource);
        }
        mCheckBoxMusic.setOnClickListener(this);
        mCheckBoxCar.setOnClickListener(this);
        mCheckBoxPerson.setOnClickListener(this);
        mCheckBoxStreet.setOnClickListener(this);
        mButtonAbout.setOnClickListener(new
View.OnClickListener() {
            @Override
```

```java
            public void onClick(View v) {
                FragmentManager manager = getFragmentManager();
                AboutDialog dialog  = new AboutDialog();
                dialog.show(manager,DIALOG_ABOUT);
            }
        });
        return view;
    }
    @Override
    public void onClick(View view) {
        searchImage();
    }
    @Override
    public void onSaveInstanceState(@NonNull Bundle
outState) {
        super.onSaveInstanceState(outState);
        outState.putInt(CURRENT_IMAGE,mImageResource);
    }
    private void searchImage(){
        boolean isCarSelected = mCheckBoxCar.isChecked();
        boolean isStreetSelected =
mCheckBoxStreet.isChecked();
        boolean isMusicSelected = mCheckBoxMusic.isChecked();
        boolean isPersonSelected =
mCheckBoxPerson.isChecked();
        if(!(isCarSelected && isStreetSelected &&
isMusicSelected && isPersonSelected)){
            mImageResource = R.drawable.blank;
        }
        if(isCarSelected && isStreetSelected &&
isMusicSelected && isPersonSelected){
            mImageResource=
R.drawable.street_music_car_person;
            mImageView.setImageResource(mImageResource);
            return;
        }
        //-------------------
        if(isCarSelected){
            mImageResource = (R.drawable.car);
        }
        if(isMusicSelected){
```

```java
            mImageResource = (R.drawable.music);
        }
        if (isStreetSelected){
            mImageResource = (R.drawable.street);
        }
        if(isPersonSelected){
            mImageResource = (R.drawable.person);
        }
        //------------
        if (isCarSelected && isMusicSelected){
            mImageResource = (R.drawable.car_music);
        }
        if(isCarSelected && isPersonSelected){
            mImageResource = (R.drawable.car_person);
        }
        if(isCarSelected && isStreetSelected){
            mImageResource = (R.drawable.car_street);
        }
        if (isStreetSelected && isMusicSelected){
            mImageResource = (R.drawable.music_street);
        }
        if(isStreetSelected && isPersonSelected){
            mImageResource = (R.drawable.street_person);
        }
        if(isMusicSelected && isPersonSelected){
            mImageResource = (R.drawable.person_music);
        }
        //------------------------
        if(isPersonSelected && isCarSelected &&
isMusicSelected){
            mImageResource = (R.drawable.person_music_car);
        }
        if(isPersonSelected && isCarSelected &&
isStreetSelected){
            mImageResource = (R.drawable.person_car_street);
        }
        if (isMusicSelected && isStreetSelected &&
isPersonSelected){
            mImageResource = (R.drawable.music_street_person);
        }
```

```
        if (isMusicSelected && isStreetSelected &&
isCarSelected){
            mImageResource = (R.drawable.music_street_car);
        }
        mImageView.setImageResource(mImageResource);
        //
    }
}
```

about_dialog.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout

xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_height="wrap_content"
    android:layout_width="wrap_content"
>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:background="@color/black"
        >
        <ImageView
            android:id="@+id/imageViewProfile"
            android:layout_width="192dp"
            android:layout_height="152dp"
            android:src="@drawable/profile" />
        <LinearLayout
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:orientation="vertical">
            <TextView
                android:id="@+id/textViewName"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:text="@string/name"
                android:textColor="@color/color" />
```

```
        <TextView
            android:id="@+id/textViewId"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="@string/id"
            android:textColor="@color/color" />
    </LinearLayout>
  </LinearLayout>
</RelativeLayout>
```

activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"

xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity"
    android:id="@+id/fragment_container"
    />
```

main_fragment.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView

xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_height="match_parent"
     android:layout_width="match_parent">
<LinearLayout
    android:orientation="vertical"
android:layout_width="match_parent"
    android:layout_height="match_parent">
    <CheckBox
        android:id="@+id/checkBoxCar"
```

```xml
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="@string/car" />
    <CheckBox
            android:id="@+id/checkBoxMusic"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="@string/music" />
    <CheckBox
            android:id="@+id/checkBoxPerson"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="@string/person" />
    <CheckBox
            android:id="@+id/checkBoxStreet"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="@string/street" />
    <ImageView
            android:id="@+id/imageView"
            android:layout_width="match_parent"
            android:layout_height="336dp"
            />
    <Button
            android:id="@+id/btn_about"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:drawableLeft="@drawable/ic_about"
            android:text="@string/about" />
</LinearLayout>
></ScrollView>
```

colors.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="colorPrimary">#008577</color>
    <color name="colorPrimaryDark">#00574B</color>
    <color name="colorAccent">#D81B60</color>
    <color name="black">#000000</color>
```

```xml
    <color name="color">#FFFFFF</color>
</resources>
```

strings.xml

```xml
<resources>
    <string name="app_name">Tarea4</string>

    <string name="car">Car</string>
    <string name="music">Music</string>
    <string name="person">Person</string>
    <string name="street">Street</string>
    <string name="about">About the developer</string>
    <string name="name">Name: Nizar Sanchez </string>
    <string name="id">ID: 2018-6482 </string>
    <string name="ok">OK</string>

</resources>
```

styles.xml

```xml
<resources>
    <!-- Base application theme. -->
    <style name="AppTheme"
parent="Theme.AppCompat.Light.DarkActionBar">
        <!-- Customize your theme here. -->
        <item name="colorPrimary">@color/colorPrimary</item>
        <item
name="colorPrimaryDark">@color/colorPrimaryDark</item>
        <item name="colorAccent">@color/colorAccent</item>
    </style>
</resources>
```

ExampleInstrumentedTest.java
```java
package com.example.tarea4;
import android.content.Context;
import androidx.test.platform.app.InstrumentationRegistry;
import androidx.test.ext.junit.runners.AndroidJUnit4;
import org.junit.Test;
```

```java
import org.junit.runner.RunWith;
import static org.junit.Assert.*;
/**
 * Instrumented test, which will execute on an Android
device.
 *
 * @see <a
href="http://d.android.com/tools/testing">Testing
documentation</a>
 */
@RunWith(AndroidJUnit4.class)
public class ExampleInstrumentedTest {
    @Test
    public void useAppContext() {
        // Context of the app under test.
        Context appContext =
InstrumentationRegistry.getInstrumentation().getTargetConte
xt();
        assertEquals("com.example.tarea4",
appContext.getPackageName());
    }
}
```

ExampleUnitTest.java

```java
package com.example.tarea4;
import org.junit.Test;
import static org.junit.Assert.*;
/**
 * Example local unit test, which will execute on the
development machine (host).
 *
 * @see <a
href="http://d.android.com/tools/testing">Testing
documentation</a>
 */
public class ExampleUnitTest {
    @Test
    public void addition_isCorrect() {
        assertEquals(4, 2 + 2);
```

```
    }
}
```

ic_launcher.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<adaptive-icon
xmlns:android="http://schemas.android.com/apk/res/android">
    <background
android:drawable="@drawable/ic_launcher_background" />
    <foreground
android:drawable="@drawable/ic_launcher_foreground" />
</adaptive-icon>
```

ic_launcher_round.xml
```xml
<?xml version="1.0" encoding="utf-8"?>
<adaptive-icon
xmlns:android="http://schemas.android.com/apk/res/android">
    <background
android:drawable="@drawable/ic_launcher_background" />
    <foreground
android:drawable="@drawable/ic_launcher_foreground" />
</adaptive-icon>
```

ic_about
```xml
<vector
xmlns:android="http://schemas.android.com/apk/res/android"
    android:width="30dp"
    android:height="30dp"
    android:viewportWidth="30"
    android:viewportHeight="30">
 <path
    android:fillColor="#FF000000"
    android:pathData="M3.158,26.134C6.066,23.557 5,21
5,21l7,2c0,0 -3.663,3.721 -8.417,3.99L3.158,26.134z"/>
 <path
    android:fillColor="#FF000000"
    android:pathData="M3.5,26.5m-0.5,0a0.5,0.5 0,1 1,1
0a0.5,0.5 0,1 1,-1 0"/>
 <path
```

```xml
        android:fillColor="#FF000000"
        android:pathData="M15,3C7.82,3 2,7.925 2,14s5.82,11
13,11s13,-4.925 13,-11S22.18,3 15,3zM16,20h-2v-
7h2V20zM15,10.5c-0.828,0 -1.5,-0.672 -1.5,-1.5s0.672,-1.5
1.5,-1.5s1.5,0.672 1.5,1.5S15.828,10.5 15,10.5z"/>
</vector>
```