**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 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**

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**

**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\_container*,fragment)

.commit();

}

}

}

**MainFragment.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;

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

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){

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 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 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 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"

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 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>

<color name="color">#FFFFFF</color>

</resources>

**strings.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**

**<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**

**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;

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*().getTargetContext();

*assertEquals*("com.example.tarea4", appContext.getPackageName());

}

}

**ExampleUnitTest.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 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 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**

**<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

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>