**Guia 21: Recycler View.**

1. Crear un proyecto nuevo.
2. Modificar el archivo Gradle app

apply plugin: 'com.android.application'  
  
android {  
 compileSdkVersion 25  
 buildToolsVersion "26.0.1"  
 defaultConfig {  
 applicationId "mobile.calyr.com.recycler"  
 minSdkVersion 21  
 targetSdkVersion 25  
 versionCode 1  
 versionName "1.0"  
 testInstrumentationRunner "android.support.test.runner.AndroidJUnitRunner"  
 }  
 buildTypes {  
 release {  
 minifyEnabled false  
 proguardFiles getDefaultProguardFile('proguard-android.txt'), 'proguard-rules.pro'  
 }  
 }  
}  
  
dependencies {  
 compile fileTree(dir: 'libs', include: ['\*.jar'])  
 androidTestCompile('com.android.support.test.espresso:espresso-core:2.2.2', {  
 exclude group: 'com.android.support', module: 'support-annotations'  
 })  
 compile 'com.android.support:appcompat-v7:25.3.1'  
 compile 'com.android.support:design:25.3.1'  
 compile 'com.android.support.constraint:constraint-layout:1.0.2'  
 testCompile 'junit:junit:4.12'  
 compile 'com.android.support:recyclerview-v7:25.3.1'

compile **'com.android.support:cardview-v7:25.3.1'**

}

3, Agregar un RecyclerView (recyclerView) al archivo activity\_main.xml

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

<**LinearLayout 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\_width="match\_parent"**

**android:layout\_height="match\_parent"**

**android:orientation="vertical"**

**tools:context="mobile.calyr.com.recycler.MainActivity"**>

<**android.support.v7.widget.RecyclerView**

**android:id="@+id/recyclerView"**

**android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent"** />

</**LinearLayout**>

4. Crear la clase Usuario.java

**package** mobile.calyr.com.recycler;

*/\*\**

*\* Created by robertocarloscallisayamamani on 7/10/17.*

*\*/*

**public class** Usuario {

**private** String **nombre**;

**private** String **correo**;

**public** Usuario(String nombre, String correo) {

**this**.**nombre** = nombre;

**this**.**correo** = correo;

}

**public** String getNombre() {

**return nombre**;

}

**public void** setNombre(String nombre) {

**this**.**nombre** = nombre;

}

**public** String getCorreo() {

**return correo**;

}

**public void** setCorreo(String correo) {

**this**.**correo** = correo;

}

}

5. Crear un Layout (row\_user.xml) con 1 CardView( cardview ) y dentro del cardView 2 TextView ( txt\_nombre, txt\_correo ).

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

<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:orientation="vertical"**>

<**android.support.v7.widget.CardView**

**android:id="@+id/cardView"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**>

<**LinearLayout**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:orientation="horizontal"**>

<**TextView**

**android:id="@+id/txt\_correo"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="TextView"** />

<**TextView**

**android:id="@+id/txt\_nombre"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:text="TextView"** />

</**LinearLayout**>

</**android.support.v7.widget.CardView**>

</**LinearLayout**>

6. Crear la clase UserListAdapter.java

**public class** UserListAdapter **extends** RecyclerView.Adapter<UserListAdapter.UserListViewHolder> {

@Override

**public** UserListViewHolder onCreateViewHolder(ViewGroup parent, **int** viewType) {

**return null**;

}

@Override

**public void** onBindViewHolder(UserListViewHolder holder, **int** position) {

}

@Override

**public int** getItemCount() {

**return** 0;

}

**public static class** UserListViewHolder **extends** RecyclerView.ViewHolder {

**public** UserListViewHolder(View itemView) {

**super**(itemView);

}

}

}

7. Modificar la clase interna UserListViewHolder

**public class** UserListAdapter **extends** RecyclerView.Adapter<UserListAdapter.UserListViewHolder> {

@Override

**public** UserListViewHolder onCreateViewHolder(ViewGroup parent, **int** viewType) {

**return null**;

}

@Override

**public void** onBindViewHolder(UserListViewHolder holder, **int** position) {

}

@Override

**public int** getItemCount() {

**return** 0;

}

**public static class** UserListViewHolder **extends** RecyclerView.ViewHolder {

**private** TextView **txtNombre**;

**private** TextView **txtCorreo**;

**public** UserListViewHolder(View itemView) {

**super**(itemView);

**txtNombre** = (TextView) itemView.findViewById(R.id.***txt\_nombre***);

**txtCorreo** =( TextView) itemView.findViewById(R.id.***txt\_correo***);

}

}

}

8. Modificar la clase UserListAdapter.java

**public class** UserListAdapter **extends** RecyclerView.Adapter<UserListAdapter.UserListViewHolder> {

**private** ArrayList<Usuario> **lista**;

**public** UserListAdapter(ArrayList<Usuario> lista) {

**this**.**lista** = lista;

}

@Override

**public** UserListViewHolder onCreateViewHolder(ViewGroup parent, **int** viewType) {

View v;

v = LayoutInflater.*from*(parent.getContext()).inflate(R.layout.***row\_user***, parent, **false**);

**return new** UserListAdapter.UserListViewHolder(v);

}

@Override

**public void** onBindViewHolder(UserListViewHolder holder, **int** position) {

**final** Usuario usuario = **lista**.get(position);

holder.**txtNombre**.setText(usuario.getNombre());

holder.**txtCorreo**.setText(usuario.getCorreo());

}

@Override

**public int** getItemCount() {

**return this**.**lista**.size();

}

**public static class** UserListViewHolder **extends** RecyclerView.ViewHolder {

**private** TextView **txtNombre**;

**private** TextView **txtCorreo**;

**public** UserListViewHolder(View itemView) {

**super**(itemView);

**txtNombre** = (TextView) itemView.findViewById(R.id.***txt\_nombre***);

**txtCorreo** =( TextView) itemView.findViewById(R.id.***txt\_correo***);

}

}

}

9. Modificar el archivo MainActivity.java

**package** mobile.calyr.com.recycler;

**import** android.os.Bundle;

**import** android.support.v7.app.AppCompatActivity;

**import** android.support.v7.widget.LinearLayoutManager;

**import** android.support.v7.widget.RecyclerView;

**import** java.util.ArrayList;

**public class** MainActivity **extends** AppCompatActivity {

**private** RecyclerView **recyclerView**;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main***);

ArrayList<Usuario> lista = **new** ArrayList<>();

lista.add(**new** Usuario(**"Jose"**, **"jose@correo.com"**));

lista.add(**new** Usuario(**"Pepe"**, **"pepe@correo.com"**));

lista.add(**new** Usuario(**"Efrain"**, **"efrain@correo.com"**));

lista.add(**new** Usuario(**"Maria"**, **"maria@correo.com"**));

UserListAdapter userListAdapter = **new** UserListAdapter(lista);

**this**.**recyclerView** = (RecyclerView) findViewById(R.id.***recyclerView***);

**this**.**recyclerView**.setAdapter(userListAdapter);

LinearLayoutManager linearLayoutManager = **new** LinearLayoutManager(**this**);

linearLayoutManager.setOrientation(LinearLayoutManager.***VERTICAL***);

**this**.**recyclerView**.setLayoutManager(linearLayoutManager);

}

}

https://github.com/calyr/Recycler