**INGENIERIA DE SISTEMAS**

****

**Play List RecyclerView**

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# 1. Introducción:

El presente informe presenta una Play List con el uso de RecyclerView para listar a los artistas

También con el manejo de Adapters con RVadapter, ViewHolder y PlayList.

## 1.1. RecyclerView:

Es la visualización de elementos en una lista o cuadrículas es un patrón muy común en las aplicaciones móviles. El usuario ve una colección de artículos y puede desplazarse a través de ellos. La colección de elementos puede ser una lista, una cuadrícula u otra representación estructurada de datos.

## 1.2. Objetivos:

Realizar un RecyclerVirew que incluya imágenes de diferentes artistas con el nombre de su álbum la opción Listen para escuchar el álbum del artista que selecciono y se listan sus diferentes canciones con la opción de Play Pause en un botón y Stop en otro botón.

### 1.1.1. Código:

### 1.1.2. MainActivity:

package com.jhonatanraya.reciclerview;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.recyclerview.widget.LinearLayoutManager;  
import androidx.recyclerview.widget.RecyclerView;  
  
import android.os.Bundle;  
  
import com.jhonatanraya.reciclerview.Adapter.RVAdapter;  
import com.jhonatanraya.reciclerview.R;  
  
import java.util.ArrayList;  
import java.util.Arrays;  
  
public class MainActivity extends AppCompatActivity {  
 private RecyclerView recyclerView;  
 private RVAdapter rvAdapter;  
 private ArrayList<String> imgNames = new ArrayList<>();  
// private ArrayList<Integer> imagesID = new ArrayList<>();  
 private ArrayList<String> imagesID = new ArrayList<>();  
  
 private final String imgURL = "V4OgA4O,yB3d2qH,9jMbaX2,rYndmdq,sypYnSP,HBeK1ot,YCqbt8r,eLk31XX," +  
 "4ZHp7FO,XzffKgy,DJabk5C";  
 private final String imgName = "Playlist 1,Playlist 2,Playlist 3,Playlist 4,Playlist 5," +  
 "Playlist 6,Playlist 7,Playlist 8,Playlist 9,Playlist 10,Playlist 11";  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 initIMagebitMaps();  
 initRecyclerView();  
 }  
  
 public void initIMagebitMaps(){  
 imagesID.addAll(Arrays.*asList*(imgURL.split(",")));  
 imgNames.addAll(Arrays.*asList*(imgName.split(",")));  
 }  
  
 public void initRecyclerView(){  
 recyclerView = findViewById(R.id.*rvContainer*);  
 rvAdapter = new RVAdapter(this, imgNames, imagesID);  
 recyclerView.setAdapter(rvAdapter);  
 recyclerView.setLayoutManager(new LinearLayoutManager(this));  
 }  
}

### 1.1.3. ViewHolder:

public class ViewHolder extends RecyclerView.ViewHolder {  
 private RelativeLayout rlContainer;  
  
 public RelativeLayout getRlContainer() {  
 return rlContainer;  
 }  
  
 public CircleImageView getCircleImage() {  
 return circleImage;  
 }  
  
 public TextView getTvImage() {  
 return tvImage;  
 }  
  
 public Button getBtnListen(){  
 return btnListen;  
 }  
  
 private CircleImageView circleImage;  
 private TextView tvImage;  
 private Button btnListen;  
  
 public ViewHolder(View itemView) {  
 super(itemView);  
 initializeComponents(itemView);  
 }  
  
 private void initializeComponents(View itemView){  
 rlContainer = itemView.findViewById(R.id.*rlListItem*);  
 circleImage = itemView.findViewById(R.id.*circleImageViewItem*);  
 tvImage = itemView.findViewById(R.id.*tvImage*);  
 btnListen = itemView.findViewById(R.id.*buttonListen*);  
 }  
  
}

### 1.1.4. RVAdapter:

public class RVAdapter extends RecyclerView.Adapter<ViewHolder> {  
 private static final String *TAG* = "RVAdapter";  
  
 private Context context;  
 private ArrayList<String> imgNames;  
// private ArrayList<Integer> imagesID;  
 private ArrayList<String> imagesURL;  
  
 public RVAdapter(@NonNull Context context, ArrayList<String> imageNames, ArrayList<String> imagesURL) {  
 this.context = context;  
 this.imgNames = imageNames;  
 this.imagesURL = imagesURL;  
 }  
  
 @NonNull  
 @Override  
 public ViewHolder onCreateViewHolder(ViewGroup viewGroup, int viewType) {  
 View view = LayoutInflater.*from*(viewGroup.getContext())  
 .inflate(R.layout.*rl\_list\_item*, viewGroup, false);  
 ViewHolder vHolder = new ViewHolder(view);  
 return vHolder;  
 }  
  
 @Override  
 public void onBindViewHolder(@NonNull ViewHolder holder, final int position) {  
  
 String URL = "https://i.imgur.com/";  
  
 Glide  
 .*with*(context)  
 .asBitmap()  
 .load(URL + imagesURL.get(position) + ".png")  
 .into(holder.getCircleImage());  
// Set text  
 holder.getTvImage().setText(imgNames.get(position));  
// Onclick RVContainer  
 holder.getTvImage().setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Toast.*makeText*(context, imgNames.get(position), Toast.*LENGTH\_SHORT*).show();  
 }  
 });  
 holder.getBtnListen().setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent = new Intent(context, Playlist.class);  
 context.startActivity(intent);  
 }  
 });  
 }  
  
 @Override  
 public int getItemCount() {  
 return imgNames.size();  
 }  
}

### 1.1.5. PlayList:

public class Playlist extends AppCompatActivity {  
  
  
  
 MediaPlayer mediaPlayer;  
 String music\_url = "http://sampleswap.org/mp3/artist/46669/joevirus\_Out-post-aiff-160.mp3";  
  
 ImageView playi;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_playlist*);  
  
  
 playi = findViewById(R.id.*playi*);  
 playi.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 if(!mediaPlayer.isPlaying()){  
 mediaPlayer.start();  
 playi.setImageResource(R.drawable.*ic\_pause\_black\_24dp*);  
 }  
 else {  
 mediaPlayer.pause();  
 playi.setImageResource(R.drawable.*ic\_play\_arrow\_black\_24dp*);  
 }  
 }  
 });  
  
  
  
  
 mediaPlayer = new MediaPlayer();  
 mediaPlayer.setAudioStreamType(AudioManager.*STREAM\_MUSIC*);  
 try {  
 mediaPlayer.setDataSource(music\_url);  
 mediaPlayer.prepareAsync();  
  
 mediaPlayer.setOnPreparedListener(new MediaPlayer.OnPreparedListener() {  
 @Override  
 public void onPrepared(MediaPlayer mp) {  
 Toast.*makeText*(Playlist.this, "Media ", Toast.*LENGTH\_SHORT*).show();  
 }  
 });  
 } catch (IOException e) {  
 e.printStackTrace();  
 }  
 }  
}

### 1.1.6. Activity\_Playlist:

<?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"  
 tools:context="com.jhonatanraya.reciclerview.Adapter.Playlist"  
 android:background="@color/greenLight">  
  
 <LinearLayout  
 android:layout\_width="372dp"  
 android:layout\_height="592dp"  
 android:orientation="vertical"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent">  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="90dp"  
 android:orientation="horizontal">  
  
 <TextView  
  
 android:layout\_width="340dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="music1"  
 android:textColor="@color/white"  
 android:textSize="30sp" />  
  
 <ImageView  
  
 android:id="@+id/playi"  
  
 android:layout\_width="match\_parent"  
 android:layout\_height="55dp"  
 android:layout\_weight="1"  
 android:src="@drawable/ic\_play\_arrow\_black\_24dp" />  
  
  
  
 <ImageView  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="54dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/stop" />  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="89dp"  
 android:orientation="horizontal">  
  
 <TextView  
  
 android:layout\_width="340dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="music2"  
 android:textColor="@color/white"  
 android:textSize="30sp" />  
  
 <ImageView  
  
 android:id="@+id/playi2"  
  
 android:layout\_width="match\_parent"  
 android:layout\_height="55dp"  
 android:layout\_weight="1"  
 android:src="@drawable/ic\_play\_arrow\_black\_24dp" />  
  
  
  
 <ImageView  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="54dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/stop" />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="92dp"  
 android:orientation="horizontal">  
  
 <TextView  
  
 android:layout\_width="340dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="music3"  
 android:textColor="@color/white"  
 android:textSize="30sp" />  
  
 <ImageView  
  
 android:id="@+id/playi3"  
  
 android:layout\_width="match\_parent"  
 android:layout\_height="55dp"  
 android:layout\_weight="1"  
 android:src="@drawable/ic\_play\_arrow\_black\_24dp" />  
  
  
  
 <ImageView  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="54dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/stop" />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="94dp"  
 android:orientation="horizontal">  
  
 <TextView  
  
 android:layout\_width="340dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="music4"  
 android:textColor="@color/white"  
 android:textSize="30sp" />  
  
 <ImageView  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="55dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/play" />  
  
 <ImageView  
  
 android:layout\_width="182dp"  
 android:layout\_height="54dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/pause" />  
  
 <ImageView  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="54dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/stop" />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="94dp"  
 android:orientation="horizontal">  
  
 <TextView  
  
 android:layout\_width="340dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="music5"  
 android:textColor="@color/white"  
 android:textSize="30sp" />  
  
 <ImageView  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="55dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/play" />  
  
 <ImageView  
  
 android:layout\_width="182dp"  
 android:layout\_height="54dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/pause" />  
  
 <ImageView  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="54dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/stop" />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="94dp"  
 android:orientation="horizontal">  
  
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 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="music6"  
 android:textColor="@color/white"  
 android:textSize="30sp" />  
  
 <ImageView  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="55dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/play" />  
  
 <ImageView  
  
 android:layout\_width="182dp"  
 android:layout\_height="54dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/pause" />  
  
 <ImageView  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="54dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/stop" />  
 </LinearLayout>  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="94dp"  
 android:orientation="horizontal">  
  
 <TextView  
  
 android:layout\_width="340dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="music6"  
 android:textColor="@color/white"  
 android:textSize="30sp" />  
  
 <ImageView  
  
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 android:layout\_height="55dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/play" />  
  
 <ImageView  
  
 android:layout\_width="182dp"  
 android:layout\_height="54dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/pause" />  
  
 <ImageView  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="54dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/stop" />  
 </LinearLayout>  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="94dp"  
 android:orientation="horizontal">  
  
 <TextView  
  
 android:layout\_width="340dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="music6"  
 android:textColor="@color/white"  
 android:textSize="30sp" />  
  
 <ImageView  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="55dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/play" />  
  
 <ImageView  
  
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 android:layout\_height="54dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/pause" />  
  
 <ImageView  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="54dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/stop" />  
 </LinearLayout>  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="94dp"  
 android:orientation="horizontal">  
  
 <TextView  
  
 android:layout\_width="340dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="music6"  
 android:textColor="@color/white"  
 android:textSize="30sp" />  
  
 <ImageView  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="55dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/play" />  
  
 <ImageView  
  
 android:layout\_width="182dp"  
 android:layout\_height="54dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/pause" />  
  
 <ImageView  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="54dp"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/stop" />  
 </LinearLayout>  
 </LinearLayout>  
</LinearLayout>

### 1.2.1. Imagenes:



