How to Create Recycler View?

First we need to add dependencies in our project.

In MainActivity Layout Add one recyclerview.

Create a row.xml file for the designing of the recycler-view.

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

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

android:orientation="horizontal"

android:layout\_width="match\_parent"

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

<ImageView

android:id="@+id/imageview1"

android:layout\_width="103dp"

android:layout\_height="101dp"

android:src="@mipmap/ic\_launcher"/>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical"

android:gravity="center"

>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="MainTitle"

android:textColor="#000"

android:textStyle="bold"

android:textSize="30sp"

android:id="@+id/textview1"

/>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Description"

android:textColor="#022"

android:textSize="20sp"

android:id="@+id/textview2"

/>

</LinearLayout>

</LinearLayout>

Create a Class file

package com.example.customizedlistview;

import android.content.Context;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.ImageView;

import android.widget.TextView;

import androidx.annotation.NonNull;

import androidx.recyclerview.widget.RecyclerView;

public class MyAdapterRecycler extends RecyclerView.Adapter<MyAdapterRecycler.ViewHolder>{

Context context;

String[] titlename;

String[] description;

int[] images;

public static class ViewHolder extends RecyclerView.ViewHolder

{

TextView textView1,textView2;

ImageView imageView1;

public ViewHolder(@NonNull View itemView)

{

super(itemView);

textView1=itemView.findViewById(R.id.textview1);

textView2=itemView.findViewById(R.id.textview2);

imageView1=itemView.findViewById(R.id.imageview);

}

}

public MyAdapterRecycler(Context context,String[] titlename,String[] description,int[] images) {

this.context=context;

this.titlename=titlename;

this.description=description;

this.images=images;

}

@NonNull

@Override

public MyAdapterRecycler.ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {

LayoutInflater inflater=LayoutInflater.from(context);

View view=inflater.inflate(R.layout.rowview,parent,false);

ViewHolder viewHolder=new ViewHolder(view);

return viewHolder;

}

@Override

public void onBindViewHolder(@NonNull MyAdapterRecycler.ViewHolder holder, int position)

{

holder.textView1.setText(titlename[position]);

holder.textView2.setText(description[position]);

holder.imageView1.setImageResource(images[position]);

}

@Override

public int getItemCount() {

return titlename.length;

}

}

MainActivity

String[] title={"Facebook","Instagram","Facebook","Instagram","Facebook","Instagram","Facebook","Instagram","Facebook","Instagram"};

String[] description={"this is fb","this is insta","this is fb","this is insta","this is fb","this is insta","this is fb","this is insta","this is fb","this is insta"};

int[] images={R.drawable.facebook,R.drawable.instagram,R.drawable.facebook,R.drawable.instagram,R.drawable.facebook,R.drawable.instagram,R.drawable.facebook,R.drawable.instagram,R.drawable.facebook,R.drawable.instagram};

RecyclerView recyclerView;

RecyclerView.Adapter programadpter;

RecyclerView.LayoutManager layoutManager;

onCreate()

recyclerView=findViewById(R.id.recycleview1);

recyclerView.setHasFixedSize(true);

layoutManager=new LinearLayoutManager(this);

recyclerView.setLayoutManager(layoutManager);

programadpter=new MyAdapterRecycler(this,title,description,images);

recyclerView.setAdapter(programadpter);

Customized ListView

Same row.xml

Create One Class File

package com.example.customizedlistview;

import android.app.Activity;

import android.content.Context;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.ArrayAdapter;

import android.widget.ImageView;

import android.widget.TextView;

import androidx.annotation.NonNull;

import androidx.annotation.Nullable;

public class MyAdapter extends ArrayAdapter

{

Context context;

String[] titlename;

String[] description;

int[] images;

public MyAdapter(Context context,String[] titlename,String[] description,int[] images) {

super(context, R.layout.rowview,titlename);

this.context=context;

this.titlename=titlename;

this.description=description;

this.images=images;

}

@NonNull

@Override

public View getView(int position, @Nullable View convertView, @NonNull ViewGroup parent) {

LayoutInflater inflater=(LayoutInflater)context.getApplicationContext().getSystemService(Context.LAYOUT\_INFLATER\_SERVICE);

View rowview=inflater.inflate(R.layout.rowview,null,true);

TextView textView1=rowview.findViewById(R.id.textview1);

TextView textView2=rowview.findViewById(R.id.textview2);

ImageView image=rowview.findViewById(R.id.imageview);

textView1.setText(titlename[position]);

textView2.setText(description[position]);

image.setImageResource(images[position]);

return rowview;

}

}

MainActivity

OnCreate()

listview=findViewById(R.id.listview);

MyAdapter adapter=new MyAdapter(this,title,description,images);

listview.setAdapter(adapter);