\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*成功运行实例\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

###main\_activity.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\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity"  
 >  
  
 <com.example.myapplication0320.QQMenu  
 android:id="@+id/QQMenu"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="match\_parent"  
 android:orientation="horizontal">  
 <include layout="@layout/left\_menu\_layout"/>  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@drawable/bg"  
 android:orientation="vertical">  
 <Button  
 android:id="@+id/btn\_menu"  
 android:layout\_width="50dp"  
 android:layout\_height="wrap\_content"  
 android:gravity="center"  
 android:drawableLeft="@drawable/ic\_baseline\_arrow\_back\_ios\_24"/>  
  
 </LinearLayout>  
  
 </LinearLayout>  
 </com.example.myapplication0320.QQMenu>  
  
  
</RelativeLayout>

### left\_menu\_layout.xml###

<?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="match\_parent"  
 android:gravity="center">  
  
 <TextView  
 android:id="@+id/tv\_title"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textColor="#ffa9"  
 android:textSize="30sp"  
 android:text="主食有。。。"  
 android:gravity="center"  
 android:background="@drawable/bg1"/>  
  
</LinearLayout>

### QQMenu.java###

package com.example.myapplication0320;  
  
import android.content.Context;  
import android.util.AttributeSet;  
import android.util.DisplayMetrics;  
import android.util.TypedValue;  
import android.view.Display;  
import android.view.MotionEvent;  
import android.view.View;  
import android.view.ViewGroup;  
import android.view.WindowManager;  
import android.widget.HorizontalScrollView;  
import android.widget.LinearLayout;  
  
public class QQMenu extends HorizontalScrollView {  
 private LinearLayout mScollerView; //定义横向滚动条布局  
 private ViewGroup mMenu; //定义菜单区域  
 private ViewGroup mContent;//定义主显示区域  
 private int mScreenWidth;//定义屏幕宽度  
 private int mMenuRightPadding = 100; //定义菜单右边距为50dp  
 private boolean call;//标记定义只设置一次横向滚动视图与子视图的宽度  
 public int mMenuWidth;//定义菜单宽度  
  
 public QQMenu(Context context, AttributeSet attrs) {  
 super(context, attrs);  
 //获取窗口管理服务  
 WindowManager wm = (WindowManager) context.getSystemService(Context.*WINDOW\_SERVICE*);  
 //创建显示尺寸对象  
 DisplayMetrics outMetrics = new DisplayMetrics();  
 //获取当前屏幕的宽高尺寸赋值给DisplayMetrics对象  
 wm.getDefaultDisplay().getMetrics(outMetrics);  
 //为屏幕的宽度赋值  
 mScreenWidth = outMetrics.widthPixels;  
 //50dp转化为像素  
 mMenuRightPadding = (int) TypedValue.*applyDimension*(TypedValue.*COMPLEX\_UNIT\_DIP*,100,context.getResources().getDisplayMetrics());  
  
 }  
 //设置横向滚动视图中主显示区域与隐藏区域的宽度  
 @Override  
 protected void onMeasure(int widthMeasureSpec, int heightMeasureSpec) {  
 if (!call){//如果宽度没有设置，则：  
 mScollerView = (LinearLayout) getChildAt(0);//获取横向滚动视图  
 mMenu = (ViewGroup) mScollerView.getChildAt(0);//获取菜单显示区域  
 mContent = (ViewGroup) mScollerView.getChildAt(1);//获取主显示区域  
 mMenuWidth=mMenu.getLayoutParams().width=mScreenWidth-mMenuRightPadding;//设置菜单的宽度  
 mContent.getLayoutParams().width=mScreenWidth;//设置主显示区域的宽度（getLayoutParams()为得到布局参数的方法）  
 call = true;  
 }  
  
 super.onMeasure(widthMeasureSpec, heightMeasureSpec);  
 }  
 //设置偏移量让菜单隐藏  
 @Override  
 protected void onLayout(boolean changed, int l, int t, int r, int b) {  
 super.onLayout(changed, l, t, r, b);  
 if (changed){  
 this.scrollTo(mMenuWidth,0);//隐藏菜单区域  
 }  
 }  
 //判断手指抬起时是隐藏菜单还是显示菜单  
 @Override  
 public boolean onTouchEvent(MotionEvent ev) {  
 int action = ev.getAction();  
 switch (action){  
 case MotionEvent.*ACTION\_UP*:  
 int scroooX = getScrollX();//获取隐藏菜单隐藏的宽度  
 if (scroooX>=mMenuWidth/2){  
 this.scrollTo(mMenuWidth,0);//隐藏菜单  
 }else {  
 this.scrollTo(0,0);//显示菜单  
 }  
 return true;  
 }  
  
 return super.onTouchEvent(ev);  
 }  
 //定义一个菜单切换方法  
 public void switchMenu(){  
 if (getScrollX()==mMenuWidth) { //如果菜单没显示，则显示出来  
 this.scrollTo(0, 0);  
 }else //其它情况，隐藏菜单  
 this.scrollTo(mMenuWidth,0);  
 }  
}

### MainActivity.java###

package com.example.myapplication0320;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.animation.ObjectAnimator;  
import android.content.ComponentName;  
import android.content.Intent;  
import android.content.ServiceConnection;  
import android.media.MediaPlayer;  
import android.os.Bundle;  
import android.os.Handler;  
import android.os.HandlerThread;  
import android.os.IBinder;  
import android.os.Looper;  
import android.os.Message;  
import android.view.View;  
import android.view.animation.LinearInterpolator;  
import android.widget.Button;  
import android.widget.ImageView;  
import android.widget.LinearLayout;  
import android.widget.SeekBar;  
import android.widget.TextView;  
  
import java.util.Timer;  
  
public class MainActivity extends AppCompatActivity{  
 private Button btnmenu;  
 private QQMenu mQQMenu;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 btnmenu = findViewById(R.id.*btn\_menu*);  
 mQQMenu = findViewById(R.id.*QQMenu*);  
 btnmenu.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 mQQMenu.switchMenu();  
 }  
 });  
  
 }  
  
}