Demo45-下拉刷新SwipeRefreshLayout

1. 嵌套在RecyclerView的外面，然后记得把那个解决隐藏ToolBar的行为移到SwipeRefreshLayout，因为RecycleView已经被包裹了。

activity\_main.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**android.support.v4.widget.DrawerLayout  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 android:id="@+id/drawer\_layout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"** >  
  
  
<**android.support.design.widget.CoordinatorLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"**>  
  
  
 <**android.support.design.widget.AppBarLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"**>  
 <**android.support.v7.widget.Toolbar  
 android:id="@+id/toolbar"  
 android:layout\_width="match\_parent"  
 android:layout\_height="?actionBarSize"  
 android:background="?attr/colorPrimary"  
 android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar"  
 app:popupTheme="@style/ThemeOverlay.AppCompat.Light"  
 app:layout\_scrollFlags="scroll|enterAlways|snap"** />  
 </**android.support.design.widget.AppBarLayout**>  
  
  
 <**android.support.v4.widget.SwipeRefreshLayout  
 android:id="@+id/swipe\_refresh"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 app:layout\_behavior="android.support.design.widget.AppBarLayout$ScrollingViewBehavior"** >  
  
 <**android.support.v7.widget.RecyclerView  
 android:id="@+id/recycler\_view"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"** />  
 </**android.support.v4.widget.SwipeRefreshLayout**>  
  
  
  
 <**android.support.design.widget.FloatingActionButton  
 android:id="@+id/fab"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="bottom|end"  
 android:layout\_margin="16dp"  
 android:src="@drawable/ic\_done"  
 app:elevation="10dp"** />  
  
</**android.support.design.widget.CoordinatorLayout**>  
  
  
  
  
 <**android.support.design.widget.NavigationView  
 android:id="@+id/nav\_view"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_gravity="start"  
 app:menu="@menu/nav\_menu"  
 app:headerLayout="@layout/nav\_header"** />  
  
  
</**android.support.v4.widget.DrawerLayout**>

1. MainActivity.java

**import** android.support.annotation.NonNull;  
**import** android.support.design.widget.FloatingActionButton;  
**import** android.support.design.widget.NavigationView;  
**import** android.support.design.widget.Snackbar;  
**import** android.support.v4.view.GravityCompat;  
**import** android.support.v4.widget.DrawerLayout;  
**import** android.support.v4.widget.SwipeRefreshLayout;  
**import** android.support.v7.app.ActionBar;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.support.v7.widget.GridLayoutManager;  
**import** android.support.v7.widget.RecyclerView;  
**import** android.support.v7.widget.Toolbar;  
**import** android.view.Menu;  
**import** android.view.MenuItem;  
**import** android.view.View;  
**import** android.widget.Toast;  
**import** java.io.BufferedReader;  
**import** java.util.ArrayList;  
**import** java.util.List;  
**import** java.util.Random;  
  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 **private** Toolbar **toolbar**;  
 **private** DrawerLayout **mDrawerLayout**;  
 **private** NavigationView **navigationView**;  
 **private** FloatingActionButton **fab**;  
  
 **private** SwipeRefreshLayout **swipeRefresh**;  
  
  
  
 *//initData（）* **private** Fruit[] **fruits** = {**new** Fruit(**"Apple"**, R.drawable.***apple***), **new** Fruit(**"Banana"**, R.drawable.***banana***),  
 **new** Fruit(**"Orange"**, R.drawable.***orange***), **new** Fruit(**"Watermelon"**, R.drawable.***watermelon***),  
 **new** Fruit(**"Pear"**, R.drawable.***pear***), **new** Fruit(**"Grape"**, R.drawable.***grape***),  
 **new** Fruit(**"Pineapple"**, R.drawable.***pineapple***), **new** Fruit(**"Strawberry"**, R.drawable.***strawberry***),  
 **new** Fruit(**"Cherry"**, R.drawable.***cherry***), **new** Fruit(**"Mango"**, R.drawable.***mango***)};  
 **private** List<Fruit> **fruitList** = **new** ArrayList<>();  
 **private** FruitAdapter **adapter**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **if** (android.os.Build.VERSION.***SDK\_INT*** >= android.os.Build.VERSION\_CODES.***LOLLIPOP***) {  
 **toolbar**=(Toolbar)findViewById(R.id.***toolbar***);  
 }  
 setSupportActionBar(**toolbar**); *//替代ActionBar* **mDrawerLayout**=(DrawerLayout)findViewById(R.id.***drawer\_layout***);  
 ActionBar actionBar=getSupportActionBar();  
 **if** (actionBar!=**null**){  
 actionBar.setDisplayHomeAsUpEnabled(**true**);  
 actionBar.setHomeAsUpIndicator(R.drawable.***ic\_menu***);  
 }  
  
  
 **navigationView**=(NavigationView)findViewById(R.id.***nav\_view***);  
 **navigationView**.setCheckedItem(R.id.***nav\_call***);  
 **navigationView**.setNavigationItemSelectedListener(**new** NavigationView.OnNavigationItemSelectedListener() {  
 @Override  
 **public boolean** onNavigationItemSelected(@NonNull MenuItem menuItem) {  
  
 **mDrawerLayout**.closeDrawers();  
 **return true**;  
 }  
 });  
  
  
  
 **fab**=(FloatingActionButton)findViewById(R.id.***fab***);  
 **fab**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 Snackbar.*make*(view,**"确定删除数据？"**,Snackbar.***LENGTH\_SHORT***)  
 .setAction(**"Undo"**, **new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
  
 Toast.*makeText*(MainActivity.**this**,**"数据保存"**,Toast.***LENGTH\_SHORT***).show();  
 }  
 }).show();  
 }  
 });  
  
  
  
 *//initView（）* RecyclerView recyclerView = (RecyclerView) findViewById(R.id.***recycler\_view***);  
 GridLayoutManager layoutManager = **new** GridLayoutManager(**this**, 2);  
 recyclerView.setLayoutManager(layoutManager);  
  
 *//initData* initFruits();  
 **adapter** = **new** FruitAdapter(**fruitList**);  
 recyclerView.setAdapter(**adapter**);  
  
  
  
 **swipeRefresh** = (SwipeRefreshLayout) findViewById(R.id.***swipe\_refresh***);  
 **swipeRefresh**.setColorSchemeResources(R.color.***colorPrimary***);  
 **swipeRefresh**.setOnRefreshListener(**new** SwipeRefreshLayout.OnRefreshListener() {  
 @Override  
 **public void** onRefresh() {  
 refreshFruits();  
 }  
 });  
 }  
  
  
  
 **private void** refreshFruits() {  
 **new** Thread(**new** Runnable() {  
 @Override  
 **public void** run() {  
 **try** {  
 Thread.*sleep*(2000);  
 } **catch** (InterruptedException e) {  
 e.printStackTrace();  
 }  
 *//在子线程里面可以直接切换回主线程* runOnUiThread(**new** Runnable() {  
 @Override  
 **public void** run() {  
 initFruits();  
 **adapter**.notifyDataSetChanged();  
 **swipeRefresh**.setRefreshing(**false**);  
 }  
 });  
 }  
 }).start();  
 }  
  
 **private void** initFruits() {  
 **fruitList**.clear();  
 **for** (**int** i = 0; i < 50; i++) {  
 Random random = **new** Random();  
 **int** index = random.nextInt(**fruits**.**length**);  
 **fruitList**.add(**fruits**[index]);  
 }  
 }  
  
  
  
  
  
 @Override  
 **public boolean** onCreateOptionsMenu(Menu menu) {  
 getMenuInflater().inflate(R.menu.***toolbar***,menu);  
 **return true**;  
 }  
  
  
 @Override  
 **public boolean** onOptionsItemSelected(MenuItem item) {  
 **switch** (item.getItemId()){  
  
  
 **case** android.R.id.***home***:  
 **mDrawerLayout**.openDrawer(GravityCompat.***START***);  
 **break**;  
  
  
 **case** R.id.***backup***:  
 Toast.*makeText*(**this**,**"BackUp"**,Toast.***LENGTH\_SHORT***).show();  
 **break**;  
  
 **case** R.id.***delete***:  
 Toast.*makeText*(**this**,**"BackUp"**,Toast.***LENGTH\_SHORT***).show();  
 **break**;  
  
 **case** R.id.***settings***:  
 Toast.*makeText*(**this**,**"BackUp"**,Toast.***LENGTH\_SHORT***).show();  
 **break**;  
  
 **default**:**break**;  
  
  
  
  
 }  
 **return true**;  
 }  
}