Demo19-Fragment的新闻Demo

1. 在app模块下的build.gradle文件中添加recycleview的依赖

implementation **'com.android.support:recyclerview-v7:28.0.0'**

1. bean: 新闻数据的实体类，存放解析后的数据， News.java

//属性+ Getter+ Setter

public class News {

private String title;

private String content;

public String getTitle() {

return title;

}

public void setTitle(String title) {

this.title = title;

}

public String getContent() {

return content;

}

public void setContent(String content) {

this.content = content;

}

}

1. 新闻内容碎片的布局： news\_content\_frag.xml

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

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

android:layout\_width="match\_parent"

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

<LinearLayout

android:id="@+id/visibility\_layout"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:visibility="invisible" >

<TextView

android:id="@+id/news\_title"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:padding="10dp"

android:textSize="20sp" />

<View

android:layout\_width="match\_parent"

android:layout\_height="1dp"

android:background="#000" />

<TextView

android:id="@+id/news\_content"

android:layout\_width="match\_parent"

android:layout\_height="0dp"

android:layout\_weight="1"

android:padding="15dp"

android:textSize="18sp" />

</LinearLayout>

<View

android:layout\_width="1dp"

android:layout\_height="match\_parent"

android:layout\_alignParentLeft="true"

android:background="#000" />

</RelativeLayout>

1. 新闻内容碎片类： NewsContentFragment.java

import android.os.Bundle;

import android.support.annotation.Nullable;

import android.support.v4.app.Fragment;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.TextView;

public class NewsContentFragment extends Fragment {

private View view;

@Override

public View onCreateView(LayoutInflater inflater, ViewGroup container,

Bundle savedInstanceState) {

//initView

view = inflater.inflate(R.layout.news\_content\_frag, container, false);

return view;

}

//initData

public void refresh(String newsTitle, String newsContent) {

View visibilityLayout = view.findViewById(R.id.visibility\_layout);

visibilityLayout.setVisibility(View.VISIBLE);

TextView newsTitleText = (TextView) view.findViewById (R.id.news\_title);

TextView newsContentText = (TextView) view.findViewById(R.id.news\_content);

newsTitleText.setText(newsTitle); // 刷新新闻的标题

newsContentText.setText(newsContent); // 刷新新闻的内容

}

}

1. 内容Activity引入内容碎片， news\_content.xml

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

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

android:orientation="vertical"

android:layout\_width="match\_parent"

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

<fragment

android:id="@+id/news\_content\_fragment"

android:name="com.example.fragmentbestpractice.NewsContentFragment"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

/>

</LinearLayout>

1. 内容Activity: NewsContentActivity

import android.content.Context;

import android.content.Intent;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

public class NewsContentActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.news\_content);

String newsTitle = getIntent().getStringExtra("news\_title"); // 获取传入的新闻标题

String newsContent = getIntent().getStringExtra("news\_content"); // 获取传入的新闻内容

NewsContentFragment newsContentFragment = (NewsContentFragment) getSupportFragmentManager().findFragmentById(R.id.news\_content\_fragment);

newsContentFragment.refresh(newsTitle, newsContent); // 刷新NewsContentFragment界面

}

public static void actionStart(Context context, String newsTitle, String newsContent) {

Intent intent = new Intent(context, NewsContentActivity.class);

intent.putExtra("news\_title", newsTitle);

intent.putExtra("news\_content", newsContent);

context.startActivity(intent);

}

}

1. 新闻列表碎片的布局： news\_title\_frag.xml

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

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

android:orientation="vertical"

android:layout\_width="match\_parent"

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

<android.support.v7.widget.RecyclerView

android:id="@+id/news\_title\_recycler\_view"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

/>

</LinearLayout>

1. recyclerview的子项布局: news\_item.xml

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

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

android:id="@+id/news\_title"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:singleLine="true"

android:ellipsize="end"

android:textSize="18sp"

android:paddingLeft="10dp"

android:paddingRight="10dp"

android:paddingTop="15dp"

android:paddingBottom="15dp"

/>

1. 新闻碎片类： NewsTitleFragment.java

import android.os.Bundle;

import android.support.v4.app.Fragment;

import android.support.v7.widget.LinearLayoutManager;

import android.support.v7.widget.RecyclerView;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.TextView;

import java.util.ArrayList;

import java.util.List;

import java.util.Random;

public class NewsTitleFragment extends Fragment {

private boolean isTwoPane;

@Override

public View onCreateView(LayoutInflater inflater, ViewGroup container,

Bundle savedInstanceState) {

View view = inflater.inflate(R.layout.news\_title\_frag, container, false);

RecyclerView newsTitleRecyclerView = (RecyclerView) view.findViewById(R.id.news\_title\_recycler\_view);

LinearLayoutManager layoutManager = new LinearLayoutManager(getActivity());

newsTitleRecyclerView.setLayoutManager(layoutManager);

NewsAdapter adapter = new NewsAdapter(getNews());

newsTitleRecyclerView.setAdapter(adapter);

return view;

}

@Override

public void onActivityCreated(Bundle savedInstanceState) {

super.onActivityCreated(savedInstanceState);

if (getActivity().findViewById(R.id.news\_content\_layout) != null) {

isTwoPane = true; // 可以找到news\_content\_layout布局时，为双页模式

} else {

isTwoPane = false; // 找不到news\_content\_layout布局时，为单页模式

}

}

private List<News> getNews() {

List<News> newsList = new ArrayList<>();

for (int i = 1; i <= 50; i++) {

News news = new News();

news.setTitle("This is news title " + i);

news.setContent(getRandomLengthContent("This is news content " + i + ". "));

newsList.add(news);

}

return newsList;

}

private String getRandomLengthContent(String content) {

Random random = new Random();

int length = random.nextInt(20) + 1;

StringBuilder builder = new StringBuilder();

for (int i = 0; i < length; i++) {

builder.append(content);

}

return builder.toString();

}

class NewsAdapter extends RecyclerView.Adapter<NewsAdapter.ViewHolder> {

private List<News> mNewsList;

class ViewHolder extends RecyclerView.ViewHolder {

TextView newsTitleText;

public ViewHolder(View view) {

super(view);

newsTitleText = (TextView) view.findViewById(R.id.news\_title);

}

}

public NewsAdapter(List<News> newsList) {

mNewsList = newsList;

}

@Override

public ViewHolder onCreateViewHolder(ViewGroup parent, int viewType) {

View view = LayoutInflater.from(parent.getContext()).inflate(R.layout.news\_item, parent, false);

final ViewHolder holder = new ViewHolder(view);

view.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

News news = mNewsList.get(holder.getAdapterPosition());

if (isTwoPane) {

NewsContentFragment newsContentFragment = (NewsContentFragment)

getFragmentManager().findFragmentById(R.id.news\_content\_fragment);

newsContentFragment.refresh(news.getTitle(), news.getContent());

} else {

NewsContentActivity.actionStart(getActivity(), news.getTitle(), news.getContent());

}

}

});

return holder;

}

@Override

public void onBindViewHolder(ViewHolder holder, int position) {

News news = mNewsList.get(position);

holder.newsTitleText.setText(news.getTitle());

}

@Override

public int getItemCount() {

return mNewsList.size();

}

}

}

1. activity\_main.xml引入碎片

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

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

android:id="@+id/news\_title\_layout"

android:layout\_width="match\_parent"

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

<fragment

android:id="@+id/news\_title\_fragment"

android:name="com.example.fragmentbestpractice.NewsTitleFragment"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

/>

</FrameLayout>

11、多一个适配的布局： layout-sw600dp文件夹的 activity\_main.xml

<?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" >

<fragment

android:id="@+id/news\_title\_fragment"

android:name="com.example.fragmentbestpractice.NewsTitleFragment"

android:layout\_width="0dp"

android:layout\_height="match\_parent"

android:layout\_weight="1" />

<FrameLayout

android:id="@+id/news\_content\_layout"

android:layout\_width="0dp"

android:layout\_height="match\_parent"

android:layout\_weight="3" >

<fragment

android:id="@+id/news\_content\_fragment"

android:name="com.example.fragmentbestpractice.NewsContentFragment"

android:layout\_width="match\_parent"

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

</FrameLayout>

</LinearLayout>