桂林电子科技大学

序号：

课号：

**Android应用开发**  实验报告

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 实验名称 | 实验七 新闻列表 | | | | | | | |  | 辅导员意见：  成绩 辅导员  签 名 |
| 院 系 | 计算机与信息安全学院 | | | 专业 | | 计算机科学与技术 | | |
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| 实验日期 | 2022 | 年 | 5 | | 月 | | 11 | 日 |
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| --- |
| 1. **实验目的**   1. 掌握 okhttp ⽹络库进⾏同步、异步⽹络请求的⽅法；  2. 掌握 json 数据格式及 gson 库的使⽤⽅法；  3. 掌握第三⽅数据 API 接⼜申请及使⽤⽅法； |
| 1. **实验内容**   在前面的实验中，我们做过了新闻列表的内容，在本次实验中获取新闻的方式变成了从网络API接口。实验指导书当中介绍了天行数据API接口来获取新闻内容，在AndroidMainfest.xml文件中来修改网络获取的权限。通过News方法的NewsAdapter来进行存储数据，并且将与新闻有关的数据渲染到ListView中，定义BaseResponse来响应HTTP属性，通过okhttp来进行请求API，通过refreshData方法来操作请求。 |
| **三、实验总结**  通过本次实验，学会了如何去通过第三方去获取新闻数据。Json数据的格式与我们平时使用的图片格式不一样，是需要通过http协议才能够获取图片的内容，如果没有这个前缀，图片内容可能会无法显示出来。    图1.新闻列表界面    图2.新闻详细界面 |

**四、实验代码**

1. MainActivicy.java

package com.example.ggnews;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.os.NetworkOnMainThreadException;  
import android.util.Log;  
import android.view.View;  
import android.widget.AdapterView;  
import android.widget.ListView;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import com.google.gson.Gson;  
import com.google.gson.reflect.TypeToken;  
  
import java.io.IOException;  
import java.lang.reflect.Type;  
import java.util.ArrayList;  
import java.util.List;  
  
public class MainActivity extends AppCompatActivity {  
  
 private ListView lvNewsList;  
 private List<News> newsData;  
 private String TAG = "GGnews";  
 private int page = 1;  
 private int mCurrentColIndex=0;  
  
 private int[] mCols = new int[]{Constants.*NEWS\_COL5*,Constants.*NEWS\_COL7*,Constants.*NEWS\_COL8*,Constants.*NEWS\_COL10*,Constants.*NEWS\_COL11*};  
  
 private okhttp3.Callback callback = new okhttp3.Callback(){  
 @Override  
 public void onFailure(Call call, IOException e) {  
 Log.*e*(TAG,"Failed to connect server!");  
 e.printStackTrace();  
 }  
  
 @Override  
 public void onResponse(Call call, Response response) throws IOException {  
 if(response.isSuccessful())  
 {  
 final String body = response.body().string();  
  
 runOnUiThread(new Runnable() {  
 @Override  
 public void run() {  
 Gson gson = new Gson();  
 Type jsonType = new TypeToken<BaseResponse<List<News>>>(){}.getType();  
 BaseResponse<List<News>>newsListResponse = gson.fromJson(body,jsonType);  
 for(News news:newsListResponse.getData())  
 {  
 adapter.add(news);  
 }  
 adapter.notifyDataSetChanged();  
 }  
 });  
 } else  
 {  
  
 }  
 }  
 };  
 private NewsAdapter adapter;  
  
 *//初始化 layout* private void initView()  
 {  
 lvNewsList = findViewById(R.id.*lv\_news\_list*);  
 lvNewsList.setOnItemClickListener(new AdapterView.OnItemClickListener() {  
 @Override  
 public void onItemClick(AdapterView<?> parent, View view, int position, long id) {  
 Intent intent = new Intent(MainActivity.this,DetailActivity.class);  
  
 News news = adapter.getItem(position);  
 intent.putExtra(Constants.*NEWS\_DETAIL\_URL\_KEY*,news.getmContentUrl());  
  
 startActivity(intent);  
 }  
 });  
 }  
  
 private void refreshData(final int page)  
 {  
 new Thread(new Runnable() {  
 @Override  
 public void run() {  
 NewsRequest request = new NewsRequest();  
  
 request.setCol(mCols[mCurrentColIndex]);  
 request.setNum(Constants.*NEWS\_NUM*);  
 request.setPage(page);  
 String urlParams = request.toString();  
  
 Request request1 = new Request.Builder().url(Constants.GENERAL\_NEWS\_URL+urlParams).get().build();  
  
 try {  
 OkHttpClient client = new OkHttpClient();  
 client.newCall(request1).enqueue(callback);  
 }catch (NetworkOnMainThreadException ex)  
 {  
 ex.printStackTrace();  
 }  
 }  
 }).start();  
 }  
  
 *//初始化数据* private void initData()  
 {  
 newsData = new ArrayList<>();  
 adapter = new NewsAdapter(MainActivity.this,R.layout.*list\_item*,newsData);  
 lvNewsList.setAdapter(adapter);  
 refreshData(1);  
 if(newsData.isEmpty())  
 {  
 Log.*e*(TAG, "initData: is null " );  
 }  
 }  
  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 initView();  
 initData();  
  
 }  
}

1. NewsAdapter.java

package com.example.ggnews;  
  
import android.content.Context;  
import android.text.Layout;  
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 java.util.List;  
  
public class NewsAdapter extends ArrayAdapter<News> {  
 private List<News> mNewData;  
 private Context mContext;  
 private int resourceId;  
  
 public NewsAdapter(Context context, int resourceId, List<News> data){  
 super(context,resourceId,data);  
 this.mContext = context;  
 this.mNewData = data;  
 this.resourceId = resourceId;  
 }  
  
 @Override  
 public View getView(int position, View convertView, ViewGroup parent){  
 News news = getItem(position);  
 View view;  
  
 final ViewHolder vh;  
 if (convertView == null){  
 view = LayoutInflater.*from*(getContext()).inflate(resourceId,parent,false);  
 vh = new ViewHolder();  
 vh.tvTitle = view.findViewById(R.id.*tv\_title*);  
 vh.tvSource = view.findViewById(R.id.*tv\_subtitle*);  
 vh.ivImage = view.findViewById(R.id.*iv\_image*);  
 vh.ivDelete = view.findViewById(R.id.*iv\_delete*);  
 vh.tvPublishTime = view.findViewById(R.id.*tv\_publish\_time*);  
  
 view.setTag(viewHolder);  
 } else {  
 view = convertView;  
 vh = (ViewHolder) view.getTag();  
 }  
  
 vh.tvTitle.setText(news.getTitle());  
 vh.tvSource.setText(news.getSource());  
 vh.ivDelete.setTag(position);  
 vh.tvPublishTime.setText(news.getData());  
  
 Glide.with(mContext).load(news.getPicUrl()).into(viewHolder.ivImage);  
  
 return view;  
 }  
  
 class ViewHolder{  
 TextView tvTitle;  
 TextView tvSource;  
 ImageView ivImage;  
 TextView tvPublishTime;  
 ImageView ivDelete;  
 }  
}

1. BaseResponse.java

package com.example.ggnews;  
  
public class BaseResponse <T>{  
 private int code;  
 private String msg;  
  
 public final static int *RESPONSE\_SUCCESS* = 0;  
  
 @SerializeName("newslist")  
 private T data;  
  
 public BaseResponse(){  
  
 }  
  
 public int getCode(){  
 return code;  
 }  
  
 public void setCode(int code){  
 this.code = code;  
 }  
  
 public String getMsg(){  
 return msg;  
 }  
  
 public void setMsg(String msg){  
 this.msg = msg;  
 }  
  
 public T getData(){  
 return data;  
 }  
  
 public void setData(T data){  
 this.data = data;  
 }  
}

1. Constants.java

package com.example.ggnews;  
  
public class Constants {  
 private Constants(){  
  
 }  
  
 public static final int *NEWS\_NUM* = 10;  
 public static String *SERVER\_URL* = "https://api.tianapi.com/";  
 public static String *ALL\_NEWS\_PATH* = "allnews/";  
 public static String *GENERAL\_NEWS\_PATH* ="generalnews/";  
  
 public static String *API\_KEY* = "b8dfac3922453acf07619230d79de21f ";  
 public static String *ALL\_NEWS\_URL* = *SERVER\_URL*+ *GENERAL\_NEWS\_PATH*;  
  
 public static int *NEWS\_COL5* = 5;  
 public static int *NEWS\_COL7* = 7;  
 public static int *NEWS\_COL8* = 8;  
 public static int *NEWS\_COL10* = 10;  
 public static int *NEWS\_COL11* = 11;  
  
 public static String *NEWS\_DETAIL\_URL\_KEY* = "news\_detail\_url\_key";  
}

import android.graphics.Color;  
import androidx.fragment.app.Fragment;  
import androidx.fragment.app.FragmentTransaction;  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.ImageView;  
import android.widget.LinearLayout;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import com.example.ts.news.Fragment.MainFragment;  
import com.example.ts.news.Fragment.MineFragment;  
import com.example.ts.news.Fragment.SettingFragment;  
import com.example.ts.news.R;  
import com.example.ts.news.Utils.ApplicationUtil;  
import com.google.android.material.floatingactionbutton.FloatingActionButton;  
  
import java.util.ArrayList;  
import java.util.List;  
  
public class MainActivity extends AppCompatActivity implements View.OnClickListener {  
  
 private LinearLayout ll\_main, ll\_setting, ll\_mine;  
  
 private MainFragment mainFragment;  
 private SettingFragment settingFragment;  
 private MineFragment mineFragment;  
  
 private List<Fragment> fragmentList = new ArrayList<>();  
  
 private ImageView img\_main, img\_seting, img\_mine;  
 private TextView text\_main, text\_setting, text\_mine;  
// private FloatingActionButton fabu;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
  
// fabu = findViewById(R.id.fabu);  
// fabu.setOnClickListener(new View.OnClickListener() {  
// @Override  
// public void onClick(View view) {  
// Toast.makeText(MainActivity.this, "点击发布动态", Toast.LENGTH\_SHORT).show();  
// }  
// });  
  
 initView();  
 initFragment();  
  
 ll\_main.setOnClickListener(this);  
 ll\_setting.setOnClickListener(this);  
 ll\_mine.setOnClickListener(this);  
  
 ApplicationUtil.getInstance().addActivity(this);  
 }  
  
 private void initView() {  
 ll\_main = (LinearLayout) findViewById(R.id.layout\_main);  
 ll\_setting = (LinearLayout)findViewById(R.id.layout\_setting);  
 ll\_mine = (LinearLayout)findViewById(R.id.layout\_mine);  
  
 text\_main = (TextView) findViewById(R.id.text\_main);  
 text\_setting = (TextView) findViewById(R.id.text\_setting);  
 text\_mine = (TextView) findViewById(R.id.text\_mine);  
  
 img\_main = (ImageView) findViewById(R.id.img\_main);  
 img\_seting =(ImageView) findViewById(R.id.img\_setting);  
 img\_mine =(ImageView) findViewById(R.id.img\_mine);  
  
 img\_main.setImageResource(R.drawable.main\_selected);  
 text\_main.setTextColor(Color.WHITE);  
 }  
  
 private void initFragment() {  
 mainFragment = new MainFragment();  
 addFragment(mainFragment);  
 showFragment(mainFragment);  
 }  
  
 /\*添加fragment\*/  
 private void addFragment(Fragment fragment) {  
 FragmentTransaction transaction = getSupportFragmentManager().beginTransaction();  
 if (!fragment.isAdded()) {  
 transaction.setTransition(FragmentTransaction.TRANSIT\_FRAGMENT\_OPEN);  
 transaction.add(R.id.main\_content, fragment).commit();  
 fragmentList.add(fragment);  
 }  
 }  
  
 /\*显示fragment\*/  
 private void showFragment(Fragment fragment) {  
 for (Fragment frag : fragmentList) {  
 if (frag != fragment) {  
 FragmentTransaction transaction = getSupportFragmentManager().beginTransaction();  
 transaction.hide(frag).commit();  
 }  
 }  
 FragmentTransaction transaction = getSupportFragmentManager().beginTransaction();  
 transaction.setTransition(FragmentTransaction.TRANSIT\_FRAGMENT\_OPEN);  
 transaction.show(fragment).commit();  
 }  
  
 @Override  
 public void onClick(View view) {  
 switch (view.getId()) {  
 case R.id.layout\_main: {  
 if (mainFragment == null) {  
 mainFragment = new MainFragment();  
 }  
 addFragment(mainFragment);  
 showFragment(mainFragment);  
 text\_main.setTextColor(Color.WHITE);  
 text\_setting.setTextColor(Color.BLACK);  
 text\_mine.setTextColor(Color.BLACK);  
  
 img\_main.setImageResource(R.drawable.main\_selected);  
 img\_seting.setImageResource(R.drawable.setting);  
 img\_mine.setImageResource(R.drawable.mine);  
  
 }  
 break;  
 case R.id.layout\_setting: {  
 if (settingFragment == null) {  
 settingFragment = new SettingFragment();  
 }  
 addFragment(settingFragment);  
 showFragment(settingFragment);  
 text\_setting.setTextColor(Color.WHITE);  
 text\_main.setTextColor(Color.BLACK);  
 text\_mine.setTextColor(Color.BLACK);  
  
 img\_main.setImageResource(R.drawable.main);  
 img\_seting.setImageResource(R.drawable.setting\_selected);  
 img\_mine.setImageResource(R.drawable.mine);  
 }  
 break;  
 case R.id.layout\_mine: {  
 if (mineFragment == null) {  
 mineFragment = new MineFragment();  
 }  
 addFragment(mineFragment);  
 showFragment(mineFragment);  
 text\_mine.setTextColor(Color.WHITE);  
 text\_main.setTextColor(Color.BLACK);  
 text\_setting.setTextColor(Color.BLACK);  
  
 img\_main.setImageResource(R.drawable.main);  
 img\_seting.setImageResource(R.drawable.setting);  
 img\_mine.setImageResource(R.drawable.mine\_selected);  
 }  
 break;  
 default:  
 break;  
 }  
 }  
}

package com.example.ts.news.Adapter;  
  
import android.content.Context;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.ArrayAdapter;  
import android.widget.Button;  
import android.widget.ImageView;  
import android.widget.TextView;  
  
import com.example.ts.news.Bean.News;  
import com.example.ts.news.R;  
  
import java.util.List;  
  
public class NewsAdapter extends ArrayAdapter<News> implements View.OnClickListener {  
 private int resourceId;  
 private CallBack mCallBack;  
  
 public NewsAdapter(Context context, int textViewResourceId, List<News> objects, CallBack callBack) {  
 super(context, textViewResourceId, objects);  
 resourceId = textViewResourceId;  
 mCallBack = callBack;  
 }  
  
  
 public interface CallBack {  
 public void click(View view);  
 }  
  
 @Override  
 public View getView(int position, View convertView, ViewGroup parent) {  
 News news = getItem(position);  
 View view;  
 ViewHolder viewHolder;  
 if (convertView == null) {  
 view = LayoutInflater.from(getContext()).inflate(resourceId, parent, false);  
 viewHolder = new ViewHolder();  
 viewHolder.newsImg = view.findViewById(R.id.news\_item\_img);  
 viewHolder.newsTitle = view.findViewById(R.id.news\_item\_title);  
 viewHolder.newsDelete = view.findViewById(R.id.delete\_item);  
 viewHolder.newsAuthor = view.findViewById(R.id.news\_item\_author);  
 viewHolder.newsDate = view.findViewById(R.id.news\_item\_date);  
 view.setTag(viewHolder);  
 } else {  
 view = convertView;  
 viewHolder = (ViewHolder) view.getTag();  
 }  
  
 if(news.getNews\_img()!=null) {  
 viewHolder.newsImg.setImageBitmap(news.getNews\_img());  
 }  
  
 viewHolder.newsTitle.setText(news.getNews\_title());  
 viewHolder.newsAuthor.setText(news.getAuthor\_name());  
 viewHolder.newsDate.setText(news.getDate());  
 viewHolder.newsDelete.setTag(position);  
 viewHolder.newsDelete.setOnClickListener(this);  
  
 return view;  
 }  
  
  
 static class ViewHolder {  
 ImageView newsImg;  
 TextView newsTitle;  
 TextView newsAuthor;  
 TextView newsDate;  
 ImageView newsDelete;  
 }  
  
 @Override  
 public void onClick(View view) {  
 mCallBack.click(view);  
 }  
}

import android.content.Context;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.ArrayAdapter;  
import android.widget.Button;  
import android.widget.ImageView;  
import android.widget.TextView;  
  
import com.example.ts.news.Bean.News;  
import com.example.ts.news.R;  
  
import java.util.List;  
  
public class NewsAdapter extends ArrayAdapter<News> implements View.OnClickListener {  
 private int resourceId;  
 private CallBack mCallBack;  
  
 public NewsAdapter(Context context, int textViewResourceId, List<News> objects, CallBack callBack) {  
 super(context, textViewResourceId, objects);  
 resourceId = textViewResourceId;  
 mCallBack = callBack;  
 }  
  
  
 public interface CallBack {  
 public void click(View view);  
 }  
  
 @Override  
 public View getView(int position, View convertView, ViewGroup parent) {  
 News news = getItem(position);  
 View view;  
 ViewHolder viewHolder;  
 if (convertView == null) {  
 view = LayoutInflater.from(getContext()).inflate(resourceId, parent, false);  
 viewHolder = new ViewHolder();  
 viewHolder.newsImg = view.findViewById(R.id.news\_item\_img);  
 viewHolder.newsTitle = view.findViewById(R.id.news\_item\_title);  
 viewHolder.newsDelete = view.findViewById(R.id.delete\_item);  
 viewHolder.newsAuthor = view.findViewById(R.id.news\_item\_author);  
 viewHolder.newsDate = view.findViewById(R.id.news\_item\_date);  
 view.setTag(viewHolder);  
 } else {  
 view = convertView;  
 viewHolder = (ViewHolder) view.getTag();  
 }  
  
 if(news.getNews\_img()!=null) {  
 viewHolder.newsImg.setImageBitmap(news.getNews\_img());  
 }  
  
 viewHolder.newsTitle.setText(news.getNews\_title());  
 viewHolder.newsAuthor.setText(news.getAuthor\_name());  
 viewHolder.newsDate.setText(news.getDate());  
 viewHolder.newsDelete.setTag(position);  
 viewHolder.newsDelete.setOnClickListener(this);  
  
 return view;  
 }  
  
  
 static class ViewHolder {  
 ImageView newsImg;  
 TextView newsTitle;  
 TextView newsAuthor;  
 TextView newsDate;  
 ImageView newsDelete;  
 }  
  
 @Override  
 public void onClick(View view) {  
 mCallBack.click(view);  
 }  
}

import android.graphics.Color;  
import androidx.fragment.app.Fragment;  
import androidx.fragment.app.FragmentTransaction;  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.ImageView;  
import android.widget.LinearLayout;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import com.example.ts.news.Fragment.MainFragment;  
import com.example.ts.news.Fragment.MineFragment;  
import com.example.ts.news.Fragment.SettingFragment;  
import com.example.ts.news.R;  
import com.example.ts.news.Utils.ApplicationUtil;  
import com.google.android.material.floatingactionbutton.FloatingActionButton;  
  
import java.util.ArrayList;  
import java.util.List;  
  
public class MainActivity extends AppCompatActivity implements View.OnClickListener {  
  
 private LinearLayout ll\_main, ll\_setting, ll\_mine;  
  
 private MainFragment mainFragment;  
 private SettingFragment settingFragment;  
 private MineFragment mineFragment;  
  
 private List<Fragment> fragmentList = new ArrayList<>();  
  
 private ImageView img\_main, img\_seting, img\_mine;  
 private TextView text\_main, text\_setting, text\_mine;  
// private FloatingActionButton fabu;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
  
// fabu = findViewById(R.id.fabu);  
// fabu.setOnClickListener(new View.OnClickListener() {  
// @Override  
// public void onClick(View view) {  
// Toast.makeText(MainActivity.this, "点击发布动态", Toast.LENGTH\_SHORT).show();  
// }  
// });  
  
 initView();  
 initFragment();  
  
 ll\_main.setOnClickListener(this);  
 ll\_setting.setOnClickListener(this);  
 ll\_mine.setOnClickListener(this);  
  
 ApplicationUtil.getInstance().addActivity(this);  
 }  
  
 private void initView() {  
 ll\_main = (LinearLayout) findViewById(R.id.layout\_main);  
 ll\_setting = (LinearLayout)findViewById(R.id.layout\_setting);  
 ll\_mine = (LinearLayout)findViewById(R.id.layout\_mine);  
  
 text\_main = (TextView) findViewById(R.id.text\_main);  
 text\_setting = (TextView) findViewById(R.id.text\_setting);  
 text\_mine = (TextView) findViewById(R.id.text\_mine);  
  
 img\_main = (ImageView) findViewById(R.id.img\_main);  
 img\_seting =(ImageView) findViewById(R.id.img\_setting);  
 img\_mine =(ImageView) findViewById(R.id.img\_mine);  
  
 img\_main.setImageResource(R.drawable.main\_selected);  
 text\_main.setTextColor(Color.WHITE);  
 }  
  
 private void initFragment() {  
 mainFragment = new MainFragment();  
 addFragment(mainFragment);  
 showFragment(mainFragment);  
 }  
  
 /\*添加fragment\*/  
 private void addFragment(Fragment fragment) {  
 FragmentTransaction transaction = getSupportFragmentManager().beginTransaction();  
 if (!fragment.isAdded()) {  
 transaction.setTransition(FragmentTransaction.TRANSIT\_FRAGMENT\_OPEN);  
 transaction.add(R.id.main\_content, fragment).commit();  
 fragmentList.add(fragment);  
 }  
 }  
  
 /\*显示fragment\*/  
 private void showFragment(Fragment fragment) {  
 for (Fragment frag : fragmentList) {  
 if (frag != fragment) {  
 FragmentTransaction transaction = getSupportFragmentManager().beginTransaction();  
 transaction.hide(frag).commit();  
 }  
 }  
 FragmentTransaction transaction = getSupportFragmentManager().beginTransaction();  
 transaction.setTransition(FragmentTransaction.TRANSIT\_FRAGMENT\_OPEN);  
 transaction.show(fragment).commit();  
 }  
  
 @Override  
 public void onClick(View view) {  
 switch (view.getId()) {  
 case R.id.layout\_main: {  
 if (mainFragment == null) {  
 mainFragment = new MainFragment();  
 }  
 addFragment(mainFragment);  
 showFragment(mainFragment);  
 text\_main.setTextColor(Color.WHITE);  
 text\_setting.setTextColor(Color.BLACK);  
 text\_mine.setTextColor(Color.BLACK);  
  
 img\_main.setImageResource(R.drawable.main\_selected);  
 img\_seting.setImageResource(R.drawable.setting);  
 img\_mine.setImageResource(R.drawable.mine);  
  
 }  
 break;  
 case R.id.layout\_setting: {  
 if (settingFragment == null) {  
 settingFragment = new SettingFragment();  
 }  
 addFragment(settingFragment);  
 showFragment(settingFragment);  
 text\_setting.setTextColor(Color.WHITE);  
 text\_main.setTextColor(Color.BLACK);  
 text\_mine.setTextColor(Color.BLACK);  
  
 img\_main.setImageResource(R.drawable.main);  
 img\_seting.setImageResource(R.drawable.setting\_selected);  
 img\_mine.setImageResource(R.drawable.mine);  
 }  
 break;  
 case R.id.layout\_mine: {  
 if (mineFragment == null) {  
 mineFragment = new MineFragment();  
 }  
 addFragment(mineFragment);  
 showFragment(mineFragment);  
 text\_mine.setTextColor(Color.WHITE);  
 text\_main.setTextColor(Color.BLACK);  
 text\_setting.setTextColor(Color.BLACK);  
  
 img\_main.setImageResource(R.drawable.main);  
 img\_seting.setImageResource(R.drawable.setting);  
 img\_mine.setImageResource(R.drawable.mine\_selected);  
 }  
 break;  
 default:  
 break;  
 }  
 }  
}

package com.example.ts.news.Activity;  
  
import android.annotation.SuppressLint;  
import android.content.Intent;  
import android.database.Cursor;  
import android.database.sqlite.SQLiteDatabase;  
import android.graphics.Bitmap;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.AdapterView;  
import android.widget.ListView;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import androidx.annotation.Nullable;  
import androidx.appcompat.app.AppCompatActivity;  
  
import com.example.ts.news.Adapter.NewsAdapter;  
import com.example.ts.news.Bean.News;  
import com.example.ts.news.R;  
import com.example.ts.news.Utils.HttpUtils;  
import com.example.ts.news.Utils.MyDatabaseHelper;  
  
import java.util.ArrayList;  
import java.util.List;  
  
public class HistoryActivity extends AppCompatActivity implements NewsAdapter.CallBack {  
  
 private List<News> newsList = new ArrayList<>();  
  
 private ListView history;  
  
 private NewsAdapter history\_adapter;  
  
 private MyDatabaseHelper helper;  
  
 private TextView history\_back;  
  
 @Override  
 protected void onCreate(@Nullable Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_history);  
 history\_back = (TextView)findViewById(R.id.history\_back);  
  
 history\_back.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 HistoryActivity.this.finish();  
 }  
 });  
  
 helper = new MyDatabaseHelper(this, "UserDB.db", null, 1);  
 initView();  
 initNews();  
  
 history.setAdapter(history\_adapter);  
  
 history.setOnItemClickListener(new AdapterView.OnItemClickListener() {  
 @Override  
 public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {  
 String url = newsList.get(i).getNews\_url();  
 Intent intent = new Intent(HistoryActivity.this, ShowNewsActivity.class);  
 intent.putExtra("url", url);  
 startActivity(intent);  
 }  
 });  
 }  
  
 private void initNews() {  
 new Thread(new Runnable() {  
 @Override  
 public void run() {  
 SQLiteDatabase db = helper.getReadableDatabase();  
 Cursor cursor = db.rawQuery("select \* from History\_News", null);  
 if (cursor.getCount() != 0) {  
 if (cursor.moveToFirst()) {  
 do {  
 //遍历Cursor对象，取出数据并打印  
 @SuppressLint("Range") String news\_url = cursor.getString(cursor.getColumnIndex("news\_url"));  
 @SuppressLint("Range") String news\_title = cursor.getString(cursor.getColumnIndex("news\_title"));  
 @SuppressLint("Range") String news\_date = cursor.getString(cursor.getColumnIndex("news\_date"));  
 @SuppressLint("Range") String news\_author = cursor.getString(cursor.getColumnIndex("news\_author"));  
 @SuppressLint("Range") String news\_picurl = cursor.getString(cursor.getColumnIndex("news\_picurl"));  
 Bitmap bitmap = HttpUtils.decodeUriAsBitmapFromNet(news\_picurl);  
 News news = new News(bitmap, news\_title, news\_url, news\_picurl, news\_date, news\_author);  
 newsList.add(news);  
  
 } while (cursor.moveToNext());  
 }  
 } else {  
 runOnUiThread(new Runnable() {  
 @Override  
 public void run() {  
 Toast.makeText(getApplicationContext(), "History为空！", Toast.LENGTH\_SHORT).show();  
 }  
 });  
 }  
  
 runOnUiThread(new Runnable() {  
 @Override  
 public void run() {  
 history\_adapter.notifyDataSetChanged();  
 }  
 });  
  
 cursor.close();  
 db.close();  
 }  
 }).start();  
  
  
 }  
  
 @Override  
 public void click(View view) {  
 int position = Integer.parseInt(view.getTag().toString());  
 SQLiteDatabase db = helper.getReadableDatabase();  
 db.execSQL("delete from History\_News where news\_title=?",  
 new String[]{newsList.get(position).getNews\_title()});  
 db.close();  
 newsList.remove(position);  
 history\_adapter.notifyDataSetChanged();  
 Toast.makeText(this, "该新闻已被移除！", Toast.LENGTH\_SHORT).show();  
  
 }  
  
 private void initView() {  
 history = (ListView) findViewById(R.id.listview\_history);  
 history\_adapter = new NewsAdapter(this, R.layout.news\_item, newsList, this);  
 }  
}

package com.example.ts.news.Activity;  
  
import android.app.ProgressDialog;  
import android.content.ContentValues;  
import android.content.Intent;  
import android.content.SharedPreferences;  
import android.database.Cursor;  
import android.database.sqlite.SQLiteDatabase;  
import android.graphics.Bitmap;  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.webkit.WebView;  
import android.webkit.WebViewClient;  
import android.widget.ImageView;  
import android.widget.Toast;  
  
import com.example.ts.news.R;  
import com.example.ts.news.Utils.MyDatabaseHelper;  
  
import java.util.UUID;  
  
public class ShowNewsActivity extends AppCompatActivity {  
  
 private WebView show\_news;  
 private ImageView collect\_news;  
  
 // 添加用户等待显示控件  
 private ProgressDialog mDialog;  
  
 private MyDatabaseHelper helper;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_show\_news);  
 initView();  
 helper = new MyDatabaseHelper(this, "UserDB.db", null, 1);  
  
 mDialog = new ProgressDialog(ShowNewsActivity.this);  
 mDialog.setMessage("加载中，请稍候");  
 show\_news.setWebViewClient(new WebViewClient() {  
 //网页加载时的回调  
 @Override  
 public void onPageStarted(WebView view, String url, Bitmap favicon) {  
 super.onPageStarted(view, url, favicon);  
 if (!mDialog.isShowing()) {  
 mDialog.show();  
 }  
 }  
  
 //网页停止加载时的回调  
 @Override  
 public void onPageFinished(WebView view, String url) {  
 super.onPageFinished(view, url);  
 // 如果没有显示，则显示  
 if (mDialog.isShowing())  
 mDialog.dismiss();  
 }  
 });  
 show\_news.getSettings().setJavaScriptEnabled(true);  
 Intent intent = getIntent();  
 final String news\_url = intent.getStringExtra("url");  
 final String news\_title = intent.getStringExtra("title");  
 final String news\_date = intent.getStringExtra("date");  
 final String news\_author = intent.getStringExtra("author");  
 final String news\_picurl = intent.getStringExtra("pic\_url");  
 show\_news.loadUrl(news\_url);  
  
 SQLiteDatabase db = helper.getWritableDatabase();  
 Cursor cursor = db.rawQuery("select \* from Collection\_News where news\_url=?", new String[]{news\_url});  
 if(cursor.getCount()==1){  
 collect\_news.setImageResource(R.drawable.favorite\_selected);  
 }  
  
 collect\_news.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
  
 //collect\_news.setImageResource(R.drawable.favorite\_selected);  
  
 ContentValues values = new ContentValues();  
 //组装数据  
 values.put("news\_url", news\_url);  
 values.put("news\_title", news\_title);  
 values.put("news\_date", news\_date);  
 values.put("news\_author", news\_author);  
 values.put("news\_picurl", news\_picurl);  
  
  
 if(cursor.getCount()==1){  
 collect\_news.setImageResource(R.drawable.favorite);  
 db.execSQL("delete from Collection\_News where news\_title=?",  
 new String[]{news\_title});  
 Toast.makeText(ShowNewsActivity.this, "取消收藏！", Toast.LENGTH\_SHORT).show();  
 }  
 else {  
 collect\_news.setImageResource(R.drawable.favorite\_selected);  
 db.insert("Collection\_News", null, values);  
 Toast.makeText(ShowNewsActivity.this, "收藏成功！", Toast.LENGTH\_SHORT).show();  
 }  
 db.close();  
  
 }  
 });  
 }  
  
 private void initView() {  
 show\_news =(WebView) findViewById(R.id.show\_news);  
 collect\_news =(ImageView) findViewById(R.id.collect\_news);  
 }  
  
}