

课号：

序号：

桂林电子科技大学

Android 应用开发 实验报告

实验名称

实验七 新闻列表

院 系

计算机与信息安全学院

专业

计算机科学与技术

学 号

1900301113

姓名

龚俊源

实验日期

2022

年

5

月

11

日

辅导员意见：

成绩

辅导员

签 名

一、 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 接口申请及使用方法；

二、 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 AndroidManifest.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

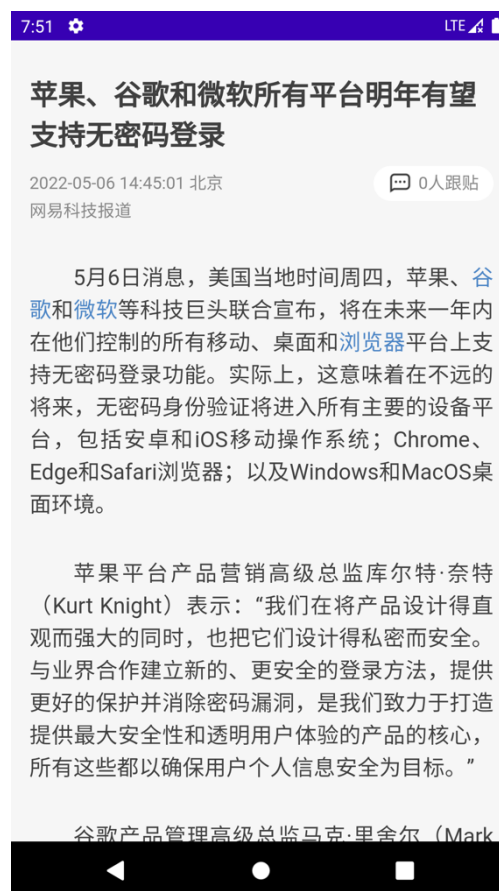


图 2. 新闻详细界面

四、实验代码

1、MainActivity.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();
```

```
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;
}
}

```

3、BaseResponse.java

```
package com.example.ggnews;
```

```

public class BaseResponse <T>{
    private int code;
    private String msg;

    public final static int RESPONSE_SUCCESS = 0;

    @SerializedName("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;
    }
}

```

4、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.AdapterView.OnItemClickListener;
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
                        @SuppressWarnings("Range") String news_url =
cursor.getString(cursor.getColumnIndex("news_url"));
                        @SuppressWarnings("Range") String news_title =
cursor.getString(cursor.getColumnIndex("news_title"));
                        @SuppressWarnings("Range") String news_date =
cursor.getString(cursor.getColumnIndex("news_date"));
                        @SuppressWarnings("Range") String news_author =
cursor.getString(cursor.getColumnIndex("news_author"));
                        @SuppressWarnings("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);  
    }  
}
```