package com.example.administrator.networktest;

import android.os.Bundle;

import android.support.v7.app.AppCompatActivity;

import android.view.View;

import android.widget.Button;

import android.widget.TextView;

import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStream;

import java.io.InputStreamReader;

import java.net.HttpURLConnection;

import java.net.URL;

public class MainActivity extends AppCompatActivity {

TextView responseText;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Button sendRequest = (Button)findViewById(R.id.send\_request);

responseText = (TextView)findViewById(R.id.response\_text);

sendRequest.setOnClickListener(new View.OnClickListener(){

@Override

public void onClick(View v){

if(v.getId()==R.id.send\_request)

sendRequestWithHttpURLConnection();

}

});

}

private void sendRequestWithHttpURLConnection(){

//开启线程发起网络请求

new Thread(new Runnable() {

@Override

public void run() {

HttpURLConnection connection = null;

BufferedReader reader = null;

try{

URL url = new URL("https://www.baidu.com");

connection = (HttpURLConnection) url.openConnection();

connection.setRequestMethod("GET");

connection.setConnectTimeout(8000);

connection.setReadTimeout(8000);

InputStream in = connection.getInputStream();

//下面对获取到的输入流进行读取

reader = new BufferedReader(new InputStreamReader(in));

StringBuilder response = new StringBuilder();

String line;

while((line = reader.readLine()) != null){

response.append(line);

}

showResponse(response.toString());

}

catch(Exception e){

e.printStackTrace();

}

finally{

if(reader != null){

try{

reader.close();

}

catch(IOException e){

e.printStackTrace();

}

}

if(connection != null){

connection.disconnect();

}

}

}

}).start();

}

private void showResponse(final String response){

runOnUiThread(new Runnable(){

@Override

public void run(){

//在这里进行UI操作，将结果显示到界面上

responseText.setText(response);

}

});

}

}