package Url;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.util.Scanner;

import org.json.simple.JSONArray;

import org.json.simple.JSONObject;

import org.json.simple.parser.JSONParser;

import org.json.simple.parser.ParseException;

public class WriteUrl {

public static void main(String[] args) throws IOException, ParseException {

int count = 0;

Scanner myObj = new Scanner(System.in); // Create a Scanner object

boolean TRUE = true;

while (TRUE) {

System.out.println("ENTER COMMAND:");

String urlname = myObj.nextLine();

switch (urlname) {

case "storeurl":

String storeurl = myObj.nextLine();

storeUrl(storeurl);

break;

case "get":

String counturl = myObj.nextLine();

JSONParser jsonP1 = new JSONParser();

FileReader reader1 = new FileReader("urls.json");

//Read JSON File

Object obj1 = jsonP1.parse(reader1);

JSONArray urlList1 = (JSONArray) obj1;

urlList1.forEach(url2 -> {

try {

countGet((JSONObject)url2);

} catch (IOException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

});

break;

case "count":

String countur2 = myObj.nextLine();

JSONParser jsonP2 = new JSONParser();

FileReader reader2 = new FileReader("urls.json");

//Read JSON File

Object obj2 = jsonP2.parse(reader2);

JSONArray urlList2 = (JSONArray) obj2;

urlList2.forEach(url3 -> counts((JSONObject)url3));

break;

case "list":

JSONParser jsonP3 = new JSONParser();

FileReader reader3 = new FileReader("urls.json");

Object obj = jsonP3.parse(reader3);

JSONArray urlList3 = (JSONArray) obj;

urlList3.forEach(url4 -> urlList((JSONObject)url4));

break;

case "exit":

System.out.println("EXITED");

System.exit(0);

break;

}

}

}

private static void storeUrl(String storeurl) throws IOException, ParseException {

JSONParser jsonParser1 = new JSONParser();

Object obj = jsonParser1.parse(new FileReader("urls.json"));

JSONArray jsonArray1 = (JSONArray)obj;

JSONObject url= new JSONObject();

url.put("id",1);

url.put("url",storeurl);

url.put("count", '0');

JSONObject urlObj1=new JSONObject();

urlObj1.put("key", url);

jsonArray1.add(urlObj1);

FileWriter file=new FileWriter("urls.json",false);

file.write(jsonArray1.toJSONString());

file.flush();

//file.close();

}

private static void countGet(JSONObject url2) throws IOException {

JSONObject urlObj2 = (JSONObject) url2.get("key");

String urlname = (String) urlObj2.get("url");

int id = Integer.parseInt(urlObj2.get("id").toString());

int count = Integer.parseInt(urlObj2.get("count").toString());

if(count!=0) {

JSONObject url1= new JSONObject();

count++;

url1.put("id",id);

url1.put("url",urlname);

url1.put("count", count);

JSONObject empObj1 = (JSONObject) url2.get("key");

System.out.println("counted by 1: " + urlname);

JSONObject urlObj=new JSONObject();

urlObj.put("key", url1);

JSONArray urlList= new JSONArray();

urlList.add(urlObj);

FileWriter file=new FileWriter("urls.json");

file.write(urlList.toJSONString());

file.flush();

}

}

public static void counts(JSONObject url3){

JSONObject urlObj3= (JSONObject) url3.get("key");

int count = Integer.parseInt(urlObj3.get("count").toString());

System.out.println("Count: " + count);

}

private static void urlList(JSONObject url4) {

JSONObject urlObj4 = (JSONObject) url4.get("key");

String url = (String) urlObj4.get("url");

int id = Integer.parseInt(urlObj4.get("id").toString());

int count = Integer.parseInt(urlObj4.get("count").toString());

System.out.println("Url: " + url);

System.out.println("id: " + id);

System.out.println("Count: " + count);

}

}