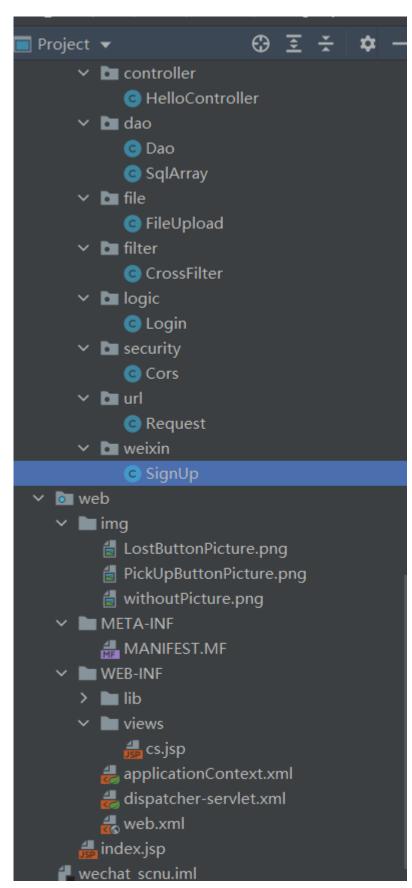
(2022.4.15)

终版1.0

与小程序前端进行了测试,修改了部分错误项目结构



包 (一些可能没用上)

activation.jar aopalliance-1.0.jar 📗 commons-beanutils-1.4.jar commons-collections-3.2.1-1.0.0.jar commons-fileupload-1.4.jar commons-io-2.0.jar commons-io-2.11.0.jar commons-lang-1_0.jar commons-logging-1.1.1-1.0.0.jar commons-logging-1.2.jar ezmorph-0.8.1.jar fastjson-1.1.30.jar gson-1.4.jar imap.jar jackson-annotations-2.9.0.jar iackson-core-2.9.0.jar i jackson-databind-2.9.0.jar javax.annotation.jar javax.ejb.jar > javax.jms.jar javax.persistence.jar javax.resource.jar javax.servlet.jar javax.servlet.jsp.jar 📗 javax.servlet.jsp.jstl.jar javax.servlet-api-4.0.1.jar javax.transaction.jar ison-lib-2.1-jdk13.jar jstl.jar mail.jar

```
ison-lib-2.1-jdk13.jar
> 📗 jstl.jar
> 📗 mail.jar
> | mysql-connector-java-8.0.25.jar
> smtp.jar
> spring-aop-5.2.3.RELEASE.jar
> spring-aspects-5.2.3.RELEASE.jar
> spring-beans-5.2.3.RELEASE.jar
> spring-context-5.2.3.RELEASE.jar
> spring-context-support-5.2.3.RELEASE.jai
> spring-core-5.2.3.RELEASE.jar
> spring-expression-5.2.3.RELEASE.jar
> spring-instrument-5.2.3.RELEASE.jar
> spring-jdbc-5.2.3.RELEASE.jar
> spring-jms-5.2.3.RELEASE.jar
> spring-messaging-5.2.3.RELEASE.jar
> spring-orm-5.2.3.RELEASE.jar
> spring-oxm-5.2.3.RELEASE.jar
spring-test-5.2.3.RELEASE.jar
> spring-tx-5.2.3.RELEASE.jar
> spring-web-5.2.3.RELEASE.jar
> spring-webmvc-5.2.3.RELEASE.jar
> 📗 standard-2.2.0.jar
> | taglibs-standard-impl-1.2.5.jar
  taglibs-standard-spec-1.2.5.jar
```

HelloController.java

```
package com.controller;

import com.dao.SqlArray;
import com.file.FileUpload;
import com.logic.Login;
import com.url.Request;
import com.weixin.SignUp;
import org.springframework.http.*;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.*;
```

```
import com.google.gson.Gson;
//import net.sf.json.JSONObject;
import com.alibaba.fastjson.JSONObject;
import org.springframework.web.multipart.MultipartFile;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.File;
import java io IOException;
import java.io.PrintWriter;
import java.util.*;
//使用Controller来标识它是一个控制器
@Controller
//@CrossOrigin
@RequestMapping(value = "/api") //使链接还有一个 /api/
public class HelloController {
   //全局变量
   public static String appid = "wx7d006a32416eba16";
   public static String secret = "bc9aea068d709089bf97c56cf7f3ea0f" ;
   //测试springmvc是否创建成功
   @RequestMapping(value = "/helloworld")
   public String Hello() {
       return "cs"; //返回测试页面
   /* 测试链接
   * 请求: Get
   * 链接: 地址/api/cs
   * 参数: 无
   * 返回: json {"msg":"HelloWorld"}
   */
   @RequestMapping(value = "/cs") //请求链接是cs
   public @ResponseBody Map<String,String> cs() {
       Map<String,String> data = new HashMap<String>(); //创建map
格式的数据
       data.put("msg","HelloWorld" );
       return data; //返回后会被前端解析为json格式的数据
   }
   /*
    * 获取两张图片
    * 请求: Get
    * 链接: 地址/api/getpicture
```

```
* 参数: 无
    * 返回: json
    * {
           "msg":"ok",
           "picture1":"/img/LostButtonPicture.png",
           "picture2":"/img/PickUpButtonPicture.png"
    * }
    */
   @RequestMapping(value = "/getpicture")
   public @ResponseBody
   Map<String,String> getPicture() {
       Map<String,String> data = new HashMap<String,String>();
       data.put("msg","ok" );
       //向前端返回两张图片的地址
       data.put("picture1","/img/LostButtonPicture.png");
       data.put("picture2","/img/PickUpButtonPicture.png");
       return data;
   }
   /* 注册
    * 请求: Get
    * 链接: 地址/api/register
    * 参数: 无
    * 返回: json {"msg":"HelloWorld"}
    */
   // 没用到
   /*@RequestMapping(value = "/register",method = RequestMethod.POST)
   public @ResponseBody
   Map<String, String> register(HttpServletRequest request) {
       String code = request.getParameter("code");
       Map<String,String> data = new HashMap<String,String>();
       data.put("msg","ok" );
       return data;
   }*/
   /* 获取手机号码
    * 请求: POST
    * 链接: 地址/api/getphone
    *参数: 手机号码获取的code
    * 返回: json {"msg":"HelloWorld"}
   @RequestMapping(value = "/getphone", method = RequestMethod.POST)
   public @ResponseBody Map<String,String> getPhone(HttpServletRequest
request) {
       Map<String, String> data = new HashMap<String, String>();
       try{
           //获取前端传过来的code
           String code = request.getParameter("code");
```

```
//System.out.println(code);
           //获取获取小程序全局唯一后台接口调用凭据(access_token)
           String getTokenUrl = "https://api.weixin.qq.com/cgi-bin/token?
grant_type=client_credential&appid="+appid+"&secret="+secret;
           String jsonStringa = Request.doGet(getTokenUrl);
                                                                //调用get
请求去访问微信小程序自带的链接,将返回结果存储到jsonStringa中
           //.out.println(jsonStringa);
           //String转JSON
           JSONObject jsonObject = JSONObject.parseObject(jsonStringa);
           String access_token = jsonObject.getString("access_token");
//获取JSON数据中的access_token
           //提交参数
           String getPhoneUrl =
"https://api.weixin.qq.com/wxa/business/getuserphonenumber?
access_token="+access_token;
           Map<String,Object> map = new HashMap<String,Object>();
           //map.put("access_token",access_token);
           map.put("code",code);
                                             //将code放到map中
           JSONObject json = new JSONObject(map); //Map格式转化成JSON格式
           //System.out.println(map);
           //System.out.println(json);
           String jsonStringb = Request.doPostForm(getPhoneUrl,json);
//向微信小程序接口提交Post请求得到结果
           //System.out.println(jsonStringb);
           //String转JSON
           JSONObject jsonObject2 = JSONObject.parseObject(jsonStringb);
           HashMap hashMap =
JSONObject.parseObject(jsonObject2.toJSONString(), HashMap.class);
           if( 0 == (int)hashMap.get("errcode") ){
                                                                //请求成功
               data.put("msg","ok" );
               JSONObject tmp2 = (JSONObject)hashMap.get("phone_info");
               data.put("phone",(String)tmp2.get("phoneNumber"));
//将结果存储下来
           }else{
               data.put("msg","fail" );
               data.put("error",(int)hashMap.get("errcode")+"" );
       }catch (Exception e){
           System.out.println(e);
           data.put("msg","fail" );
       return data:
```

```
/* 登录
    * 请求: POST
    * 链接: 地址/api/login
    *参数:登录获取的code
    * 返回: json {"skey":""}
   @RequestMapping(value = "/login", method = RequestMethod.POST)
   public @ResponseBody Map<String,String> login(HttpServletRequest request)
{
       Map<String, String> data = new HashMap<String, String>();
       try {
           //获取前端传过来的code
           String code = request.getParameter("code");
           //Get请求(登录凭证校验)
           String getAuthUrl =
"https://api.weixin.qq.com/sns/jscode2session?appid=" + appid + "&secret=" +
secret + "&js_code=" + code + "&grant_type=authorization_code";
           String jsonString = Request.doGet(getAuthUrl);
                                                               //进行get
请求
           //System.out.println(jsonString);
           //String转JSON,再json转为map
           JSONObject jsonObject = JSONObject.parseObject(jsonString);
           HashMap hashMap =
JSONObject.parseObject(jsonObject.toJSONString(), HashMap.class);
           //注意这里要加上 hashMap.get("errcode") == null
           if ( hashMap.get("errcode") == null || 0 == (int)
hashMap.get("errcode")) {
                                      //请求成功
              data.put("msg", "ok");
              //得到openid和session_key去生成3rd_session
               //这个生成3rd_session的方式自己决定即可,比如使用SHA或Base64算法都可
以。例如:将session_key或openid+session_key作为SHA或Base64算法的输入,输出结果做为
3rd_session来使用,同时要将openid, session_key, 3rd_session三者关联存储到数据库中,
方便下次拿3rd_session获取session_key或openid做其他处理。
               String openid = (String) hashMap.get("openid");
               String session_key = (String) hashMap.get("session_key");
               //uuid生成唯一
key(https://blog.csdn.net/weixin_38169886/article/details/99820453?
utm_medium=distribute.pc_relevant.none-task-blog-
2~default~baidujs_baidulandingword~default-
5.pc_relevant_default&spm=1001.2101.3001.4242.4&utm_relevant_index=8)
               String skey = UUID.randomUUID().toString(); //用UUID来
生成唯一的skey
```

```
boolean tmp = Login.checkUser(openid);
              if (tmp == false) {
                                               //没有注册过
                  Login.register(openid, skey);
                  data.put("msg", "ok");
                  data.put("skey", skey);
              } else {
                                              //注册过,更新新的skey
                  Login.updateskey(openid, skey);
                  data.put("skey", skey);
           } else {
              data.put("msg", "fail");
              data.put("error", (int) hashMap.get("errcode") + "");
           }
       catch(Exception e){
           e.printStackTrace();
           data.put("msg", "fail");
           data.put("error", e.toString());
       return data;
   }
   //文件上传
   /*
   * HTTP请求: POST
   * 参数: file (可以是一个文件,也可以是多个文件)
   * 请求链接: 地址/api/upload
   * {"msg":"ok","filename":""}
   * {"msg":"fail","error":""}
   * */
   @RequestMapping(value = "/upload", method = RequestMethod.POST)
   //@RequestParam(value = "file",required = false) MultipartFile[] file 注意
这里的写法,参数名必须和前端提交上来的名字一致
   public @ResponseBody Map<String,String> Upload(@RequestParam(value =
"file",required = false) MultipartFile[] file, HttpServletResponse response,
HttpServletRequest request) throws IOException {
       Map<String, String> data = new HashMap<String, String>();
       try {
           //System.out.println("总共有"+file.length+"个文件");
           // 文件上传到服务器的位置"/files"
           //System.out.println("正在上传文件");
           List<String> fileList = new ArrayList<>();
                                                            //全部的数组
           for( MultipartFile f:file){
                                                   //for each将文件数组一
个个取出
              String filelocation = FileUpload.SaveServer(f,request);
//将文件保存下来
              if(filelocation!= null){ //说明文件保存成功
```

```
fileList.add(filelocation); //将文件位置加入到链表中
                                            //说明文件保存失败,直接向前
             }else{
端返回错误信息
                 data.put("msg","fail");
                data.put("error","文件上传失败");
                 return data;
             }
          }
          //合并
          String all_file = SqlArray.Merge(fileList); //将前面存储起来的文
件位置一个个连接起来,变成一个字符串(用1分割)
          //System.out.println(all_file);
          data.put("msg","ok");
          data.put("filepath",all_file);
                                              //向前端返回成功的数据
      }catch (Exception e){
          e.printStackTrace();
      return data;
   }
   //失主提交页面
   /*
     HTTP请求: POST
      请求链接: 地址/api/ownerEnrol
      参数: 7
          category_value 失物类别
          LostTime 丢失时间
          LostPosition 丢失地点
          LostPerson 联系人
          LostTelNumber 联系方式
          LostThingsPicture 失物照片
          FilePath
                        图片位置
          LostMessage 备注
      返回JSON
          提交成功
          {
             "msg":"ok"
          }
          提交失败
            "msg":"fail",
            "error":错误原因
          }
   */
   //失主提交和拾主的函数基本一致,只有一些传数据的不同
   @RequestMapping(value = "/ownerEnrol", method = RequestMethod.POST)
   public @ResponseBody Map<String,String> Enrol(HttpServletResponse
```

```
response, HttpServletRequest request) throws IOException {
       Map<String, String> data = new HashMap<String, String>();
       try {
           //获取前端传过来的数据
           String category_value = request.getParameter("category_value");
           String LostTime = request.getParameter("Time");
           String LostPosition = request.getParameter("Position");
           String LostPerson = request.getParameter("Person");
           String LostTelNumber = request.getParameter("TelNumber");
           String LostMessage = request.getParameter("Message");
           String FilePath = request.getParameter("FilePath");
           //如果传文件位置为空的话,说明没有图片,文件位置变成默认"无图片"的图片
           if( FilePath == null || "".equals(FilePath)){
               FilePath = "\\img\\withoutPicture.png";
           }
           //判断关键信息是否存储,若不存在,则直接返回
           if ( category_value == null
                  || LostTime == null || LostTelNumber == null ||
LostMessage == null
                  || "".equals(category_value) || "".equals(LostTime) ||
"".equals(LostTelNumber) || "".equals(LostMessage) ) {
               data.put("msg", "fail");
               data put("error", "失物类型,失物丢失时间,失物情况,联系方式为必填项且
不能为空");
              throw new NullPointerException("xx"); //抛出异常,方便
直接跳到最后一步
           //进行登记,写入数据库
           if
(SignUp.Enrol(category_value,LostTime,LostPosition,LostPerson,LostTelNumber,F
ilePath,LostMessage,"owner")) {
               data.put("msg", "ok");
           }else{
              data.put("msg","fail");
               data.put("error","写入数据库失败");
       }catch (Exception e){
           e.printStackTrace();
       return data;
   }
   //拾主提交页面
   /*
```

```
HTTP请求: POST
       请求链接: 地址/api/pickerEnrol
       参数: 7
           category_value 失物类别
           LostTime 丢失时间
           LostPosition 丢失地点
           LostPerson 联系人
           LostTelNumber 联系方式
           FilePath 图片位置
           LostMessage 备注
       返回JSON
           提交成功
           {
              "msg":"ok"
           }
           提交失败
           {
             "msg":"fail",
             "error":错误原因
           }
   */
   //拾主
   @RequestMapping(value = "/pickerEnrol", method = RequestMethod.POST)
   public @ResponseBody Map<String,String> pickerEnrol(HttpServletResponse
response, HttpServletRequest request) throws IOException {
       Map<String, String> data = new HashMap<String, String>();
       try {
           String category_value = request.getParameter("category_value");
           String LostTime = request.getParameter("Time");
           String LostPosition = request.getParameter("Position");
           String LostPerson = request.getParameter("Person");
           String LostTelNumber = request.getParameter("TelNumber");
           String LostMessage = request.getParameter("Message");
           String FilePath = request.getParameter("FilePath");
           if( FilePath == null || "".equals(FilePath)){
               FilePath = "\\img\\withoutPicture.png";
           if ( category_value == null
                  || LostTime == null || LostTelNumber == null ||
LostMessage == null
                  || "".equals(category_value) || "".equals(LostTime) ||
"".equals(LostTelNumber) || "".equals(LostMessage) ) {
               data.put("msg", "fail");
               data.put("error", "失物类型,失物丢失时间,失物情况,联系方式为必填项且
不能为空");
               throw new NullPointerException("xx");
                                                          //抛出异常
```

```
//进行登记(与失主的区别是,这里传参的最后一个参数是"picker")
(SignUp.Enrol(category_value,LostTime,LostPosition,LostPerson,LostTelNumber,F
ilePath,LostMessage,"picker")) {
              data.put("msg", "ok");
          }else{
              data.put("msg","fail");
              data.put("error","写入数据库失败");
       }catch (Exception e){
           e.printStackTrace();
       return data;
   }
   //显示失物数据
      HTTP请求: POST
       请求链接: 地址/api/ownershowdata
       参数: page(字符串)
       返回JSON
           获取成功
           {
              "msg":"ok",
              "num":"总数量"
              "data":{
                   (数组类型的数据)
              }
           }
           获取失败
           {
             "msg":"fail",
             "num":"总数量",
             "error":错误原因
           }
   */
   @RequestMapping(value = "/ownershowdata", method = RequestMethod.POST)
   //嵌套的JSON格式可以用Map<String,Object>,不过需要相关的包,可能是gson吧
   public @ResponseBody Map<String,Object> ownershowData(HttpServletResponse
response, HttpServletRequest request) throws IOException {
       Map<String, Object> data = new HashMap<String, Object>();
       try {
           int num = SignUp.queryNum("owner"); //返回失物总数量
           String page = request.getParameter("page");
                                                          //得到前端请求
的页数
           List list = SignUp.signupList(Integer.parseInt(page),10,"owner");
```

```
//返回数据,每页限制10条数据 //每页显示10条数据
          data.put("num",""+num); //将数据加入map中
          data.put("msg","fail");
             data.put("error","当前页面已经无数据");
         }else{
             data.put("msg","ok");
             data.put("data",list);
      }catch (Exception e){
          e.printStackTrace();
      return data;
   }
   //显示失物搜索数据
   /*
      HTTP请求: POST
      请求链接: 地址/api/ownersearch
      参数:
                     页数
                            必填
          page
                             必填
         search
                            非必填
         category_value
                             非必填
         begintime
                             非必填
         endtime
      返回JSON
          获取成功
          {
             "msg":"ok",
             "data":{
                (数组类型的数据)
             }
          }
          获取失败
            "msg":"fail",
            "error":错误原因
   */
   @RequestMapping(value = "/ownersearch", method = RequestMethod.POST)
   public @ResponseBody Map<String,Object> ownersearch(HttpServletResponse
response, HttpServletRequest request) throws IOException {
      Map<String, Object> data = new HashMap<String, Object>();
      try {
          int num = SignUp.queryNum("owner");
                                          //获取数量
         //获取前端得到的值,注意存在一些值为空的情况
          String page = request.getParameter("page");
          String search = request.getParameter("search");
```

```
String category_value = request.getParameter("category_value");
           String begintime = request.getParameter("begintime");
           String endtime = request.getParameter("endtime");
           if( page == null | "".equals(page) ){ //必填项判定
              data.put("msg","fail");
              data.put("error","page为必填项");
              return data;
           //返回搜索的结果
           List list =
SignUp.searchList(Integer.parseInt(page),10,category_value,begintime,endtime,
search,"owner"); //每页显示10条数据
           if( list == null ){
                                       //同上
              data.put("msg","fail");
              data.put("error","当前页面已经无数据");
          }else{
              data.put("msg","ok");
              System.out.println(list.toString());
              data.put("data",list);
           }
       }catch (Exception e){
           e.printStackTrace();
       return data;
   //显示拾物数据
   /*
      HTTP请求: POST
       请求链接: 地址/api/pickershowdata
       参数: page(字符串)
       返回JSON
           获取成功
              "msg":"ok",
              "num":"总数量"
              "data":{
                  (数组类型的数据)
           }
           获取失败
             "msg":"fail",
             "num":"总数量",
             "error":错误原因
           }
   //与失物函数基本一致
```

```
@RequestMapping(value = "/pickershowdata", method = RequestMethod.POST)
   public @ResponseBody Map<String,Object>
pickershowData(HttpServletResponse response, HttpServletRequest request)
throws IOException {
       Map<String, Object> data = new HashMap<String, Object>();
       try {
           int num = SignUp.queryNum("picker");
           String page = request.getParameter("page");
           List list =
SignUp.signupList(Integer.parseInt(page),10,"picker"); //每页显示10条数
据
           data.put("num",""+num);
           if( list == null ){
              data.put("msg","fail");
              data.put("error","当前页面已经无数据");
           }else{
              data.put("msg","ok");
              data.put("data",list);
       }catch (Exception e){
           e.printStackTrace();
       return data;
   }
   //显示拾物搜索数据
       HTTP请求: POST
       请求链接: 地址/api/pickersearch
       参数:
                        页数
                                 必填
           page
           search
                                  必填
                                非必填
           category_value
                                 非必填
           begintime
           endtime
                                 非必填
       返回JSON
           获取成功
               "msg":"ok",
              "data":{
                   (数组类型的数据)
              }
           }
           获取失败
              "msg":"fail",
              "error":错误原因
```

```
//与失物函数基本一致
   @RequestMapping(value = "/pickersearch", method = RequestMethod.POST)
    public @ResponseBody Map<String,Object> pickersearch(HttpServletResponse
response, HttpServletRequest request) throws IOException {
       Map<String, Object> data = new HashMap<String, Object>();
       try {
           int num = SignUp.queryNum("picker");
           String page = request.getParameter("page");
           String search = request.getParameter("search");
           String category_value = request.getParameter("category_value");
           String begintime = request.getParameter("begintime");
           String endtime = request.getParameter("endtime");
           if( page == null || "".equals(page) ){
               data.put("msg","fail");
               data.put("error","page为必填项");
               return data;
           List list =
SignUp.searchList(Integer.parseInt(page),10,category_value,begintime,endtime,
search,"picker"); //每页显示10条数据
           if( list == null ){
               data.put("msg", "fail");
               data.put("error","当前页面已经无数据");
           }else{
               data.put("msg","ok");
               System.out.println(list.toString());
               data.put("data",list);
       }catch (Exception e){
           e.printStackTrace();
       return data;
   }
}
```

Dao.java

```
package com.dao;
import java.sql.*;
//作为辅助连接数据库的工具
public class Dao {
   // 获取数据库连接
```

```
//scnu_wechat scnu_wechat YJ8DhK5miHaYsx44
   public static Connection getConnection(){
       Connection conn = null;
       //注意这里后面加参数避免中文乱码,而且在web.xml加部分内容避免乱码
       String url = "jdbc:mysql://***:3306/****?
useUnicode=true&characterEncoding=utf8";
       try {
           Class.forName("com.mysql.cj.jdbc.Driver");
           //Class.forName("com.mysql.jdbc.Driver");
           //数据库名字和密码在这里改!!!!
           conn = DriverManager.getConnection(url, "****", "****");
       } catch (ClassNotFoundException e) {
           e.printStackTrace();
           System.out.println("数据库驱动加载出错");
       } catch (SQLException e) {
           e.printStackTrace();
           System.out.println("数据库出错");
       return conn;
   //关闭相关通道
   public static void close(ResultSet rs,PreparedStatement p,Connection
conn)
   {
       try
           if(!rs.isClosed()){
               rs.close();
           if(!p.isClosed()){
               p.close();
           }
           if(!conn.isClosed()){
               conn.close();
           }
       catch(SQLException e)
           e.printStackTrace();
           System.out.println("数据关闭出错");
   }
   //关闭相关通道
   public static void close(PreparedStatement p,Connection conn)
       try
```

SqlArray.java

```
package com.dao;
import java.util.ArrayList;
import java.util.List;
public class SqlArray {
   /*
   * 存储数组进数据库
   * 数据库用一个字段表示数组,字段类型为文本类型。
   * 程序存入数组到数据库的时候,利用join方法把数组转换为分隔符分隔的字符串,比如你的例
子数组a[1]="第一步";a[2]="第二步";合并后为"第一步|第二步",把这个合并后的字符串存入数据
库你是会的。
   * 从数据库里面取出合并后的字符串"第一步|第二步"以后,利用split方法可以转换为数组。
   * 这个方法的最大的优点是可以保存个数不确定的数组,程序编写相当简单。
   * */
   //将数组中的内容合并成一个字符串,并用|分割
   public static String Merge(String[] nameArr){
      String nameAll = "";
      for( int i = 0 ; i < nameArr.length ; i++ ){</pre>
          nameAll += (nameArr[i] + "|");
         if( i == nameArr.length - 1){
             nameAll += nameArr[i];
         }
      return nameAll;
```

```
//将链表中的内容合并成一个字符串,并用|分割
   public static String Merge(List nameArr){
       if( nameArr.size() == 1 )     return String.valueOf(nameArr.get(0));
       String nameAll = "";
       for( int i = 0 ; i < nameArr.size() ; i++ ){</pre>
           nameAll += String.valueOf((nameArr.get(i) + "|"));
           if( i == nameArr.size() - 1){
               nameAll += String.valueOf(nameArr.get(i));
       }
       return nameAll;
   }
   //根据合并的规则进行分离,分离成数组形式
   public static String[] SeparationArray(String nameAll){
       String[] nameArr = nameAll.split("\\|"); //split分割
       return nameArr;
   }
   //根据合并的规则进行分离,分离成链表形式
   public static List SeparationList(String nameAll) {
       String[] nameArr = nameAll.split("\\|"); //分割成数组
       //再一个个存储到链表中
       List list = new ArrayList();
       for(String name:nameArr){
           list.add(name);
       return list;
   }
}
```

FileUpload.java

```
package com.file;

import org.springframework.web.multipart.MultipartFile;

import javax.servlet.http.HttpServletRequest;
import java.io.File;
import java.util.UUID;

//文件上传相关的工具包
public class FileUpload {
```

```
// UUID可以避免重命名
   // 传入原始文件名可以得到 uuid+"_"+文件的原始名称 的返回值
   public static String getUuidFileName(String fileName){
       //文件名以: uuid+"_"+文件的原始名称
       return UUID.randomUUID().toString()+ "_" +fileName;
   }
   //保存到服务器,返回存储的位置
   public static String SaveServer(MultipartFile file, HttpServletRequest
request){
       System.out.println("正在上传文件");
       //得到上传文件的保存目录,将上传的文件存放于WEB-INF目录下,不允许外界直接访问,
保证上传文件的安全
       //String realpath = request.getServletContext().getRealPath("/WEB-
INF/files");
       //暂时就不保存在WEB-INF那里, 先放在files
       //这里保存在根目录中的file文件中
       String realpath = request.getServletContext().getRealPath("files");
       //获取文件名字,进行UUID重命名
       String fileName = getUuidFileName(file.getOriginalFilename());
       //文件上传
       File targetFile = new File(realpath, fileName);
       //如果不存在, 创建文件
       if (!targetFile.exists()) {
          targetFile.mkdirs();
       // 上传
       try {
          file.transferTo(targetFile);
                                             //保存下来
           System.out.println("上传成功");
          //return realpath + '\\' + fileName;
           //返回相对路径就行
           return "\\files\\" + fileName;
       } catch (Exception e) {
           e.printStackTrace();
                                           //说明保存不成功
           return null;
   }
}
```

```
package com.filter;
import com.alibaba.fastjson.JSONObject;
import com.logic.Login;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.Filter;
import javax.servlet.FilterChain;
import javax.servlet.FilterConfig;
import javax.servlet.ServletException;
import javax.servlet.ServletRequest;
import javax.servlet.ServletResponse;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
// https://blog.csdn.net/qq_32363305/article/details/82469451
// 过滤器,可以保证每个部分请求提交必须是已经登陆的状态
// 不过这里加在头部貌似没用,后期可以考虑参数直接传递
public class CrossFilter implements Filter{
   @Override
   public void doFilter(ServletRequest req, ServletResponse res, FilterChain
chain)
           throws IOException, ServletException {
       HttpServletRequest request = (HttpServletRequest) req;
       HttpServletResponse response = (HttpServletResponse) res;
       response.addHeader("Access-Control-Allow-Origin",
request.getHeader("Origin"));
       response.addHeader("Access-Control-Allow-Methods", "POST, GET,
OPTIONS, PUT, DELETE, HEAD");
       response.addHeader("Access-Control-Max-Age", "2700000");
       response.addHeader("Access-Control-Allow-Headers", "X-PINGOTHER,
Origin, X-Requested-With, Content-Type, Accept, Cookie");
       response.addHeader("Access-Control-Allow-Credentials", "true");
       //获取请求时头部的sessionId
       String skey = request.getHeader("skey");
       if( skey == null | "".equals(skey) ){ //如果没有说明不需要登录的权
狠
           //该请求不需要验证session,直接通过
           System.out.println("该请求不需要过滤,通过");
           chain.doFilter(request, response);
           return;
       }else{
           //只有在缓存中存在该sessionId才能进行请求
           if ( Login.checkskey(skey) == false ) {
               // 登录信息已过期,请重新登录
```

```
System.out.println("登录信息失效,请重新登录");
               //response.getWriter().write("登录信息失效,请重新登录");
               response.setCharacterEncoding("UTF-8");
               response.setContentType("application/json; charset=utf-8");
               PrintWriter out = response.getWriter();
               JSONObject tmp = new JSONObject();
               tmp.put("msg", "fail");
               tmp.put("error", "登录信息失效, 请重新登录");
               out.append(tmp.toString());
               return;
           System.out.println("session验证成功");
           chain.doFilter(request, response);
       }
   }
   @Override
   public void init(FilterConfig filterConfig) throws ServletException {
       //system.out.println("开始初始化");
   }
   @Override
   public void destroy() {
      // system.out.println("销毁完成");
}
```

Login.java

```
//将?替代成具体的值
           p.setString(1, username);
           //执行sql语句
           ResultSet rs = p.executeQuery();
           //读取sql的值
           if(rs.next()){
               String user_name = rs.getString("open_id");
               Dao.close(rs, p, conn);
               return true;
           Dao.close(rs, p, conn);
       } catch (Exception e) {
           e.printStackTrace();
       return false;
   }
   //检测是否有该账户,有则返回真,没有则返回假
   public static boolean checkskey(String skey) {
       try {
           Connection conn = Dao.getConnection();
                                                           //连接数据库
           PreparedStatement p = conn.prepareStatement("select * from
user_data where skey=?;"); //查询
           p.setString(1, skey);
           ResultSet rs = p.executeQuery();
           if(rs.next()){
               String user_name = rs.getString("skey");
               Dao.close(rs, p, conn);
               return true;
           }
           Dao.close(rs, p, conn);
       } catch (Exception e) {
           e.printStackTrace();
       return false;
   }
   //注册
   public static boolean register(String open_id,String skey){
       //ticket就是准考证号,准考证号就是登录名
       if(Login.checkUser(open_id) == false ){ //已经注册的就不能再注
册
           try {
               Connection conn = Dao.getConnection();
               /* 对账户密码的数据库进行补充 */
```

```
PreparedStatement p = conn.prepareStatement("insert into
user_data(open_id,skey) VALUES (?,?);");
               //对占位符进行补充
               p.setString(1, open_id);
               p.setString(2, skey);
               p.executeUpdate();
               System.out.println("注册成功");
               Dao.close(p, conn);
               return true;
           } catch (Exception e) {
               e.printStackTrace();
       }else{
           System.out.println("该账户已经注册过,请不要重复注册!");
           return false;
       return false;
   }
    //更新skey
    public static boolean updateskey(String open_id, String newskey) {
       try {
           Connection conn = Dao.getConnection();
                                                             //连接数据库
           PreparedStatement p = conn.prepareStatement("update user_data set
skey=? where open_id=?;");
           p.setString(1,newskey);
           p.setString(2,open_id);
                                      //执行SQL语句(注意这里是execute,因为进
           p.executeUpdate();
行的是修改操作)
           Dao.close(p, conn);
           return true;
       } catch (Exception e) {
           e.printStackTrace();
       return false;
   }
}
```

Cors.java

```
package com.security;
import org.springframework.context.annotation.Bean;
```

```
import org springframework web servlet config annotation CorsRegistry;
import org.springframework.web.servlet.config.annotation.WebMvcConfigurer;
import
org.springframework.web.servlet.config.annotation.WebMvcConfigurerAdapter;
//避免跨域问题,本项目暂时没用到
public class Cors {
    @Bean
    public WebMvcConfigurer corsConfigurer() {
        return new WebMvcConfigurerAdapter() {
           @Override
           public void addCorsMappings(CorsRegistry registry) {
               registry.addMapping("/**")
                       // 设置允许跨域请求的域名
                       // 是否允许证书 配置是否允许发送Cookie, 用于凭证请求, 默认
不发送cookie。
                       .allowCredentials(true)
                       // 设置允许的方法
                       .allowedMethods("GET", "POST", "DELETE", "PUT")
                       .allowedHeaders("Content-Type", "X-Requested-With",
"accept", "Origin", "Access-Control-Request-Method",
                               "Access-Control-Request-Headers")
                       .exposedHeaders("Access-Control-Allow-Origin",
"Access-Control-Allow-Credentials")
                       // 设置允许的header属性
                       .allowedHeaders("*")
                       //.allowedOrigins("*")
                       // 跨域允许时间
                       .maxAge(3600);
       };
   }
}
```

Request.java

```
package com.url;

import com.alibaba.fastjson.JSONObject;
import com.google.gson.Gson;
import com.google.gson.Gson;
import java.io.*;
import java.net.HttpURLConnection;
import java.net.MalformedURLException;
import java.net.URL;
```

```
import java.net.URLConnection;
import java.text.ParseException;
import java.util.*;
//https://www.cnblogs.com/mufengforward/p/10510337.html
public class Request {
   /**
    * 向指定URL发送GET方法的请求
    * @param httpurl
                请求参数用?拼接在url后边,请求参数应该是
name1=value1&name2=value2 的形式。
    * @return result 所代表远程资源的响应结果
    */
   //发送get请求
   public static String doGet(String httpurl) {
       HttpURLConnection connection = null;
       InputStream is = null;
       BufferedReader br = null;
       String result = null;// 返回结果字符串
       try {
           // 创建远程url连接对象
           URL url = new URL(httpurl);
           // 通过远程url连接对象打开一个连接,强转成httpURLConnection类
           connection = (HttpURLConnection) url.openConnection();
           // 设置连接方式: get
           connection.setRequestMethod("GET");
           // 设置连接主机服务器的超时时间: 15000毫秒
           connection.setConnectTimeout(15000);
           // 设置读取远程返回的数据时间: 60000毫秒
           connection.setReadTimeout(60000);
           // 发送请求
           connection.connect();
           // 通过connection连接, 获取输入流
           if (connection.getResponseCode() == 200) {
              is = connection.getInputStream();
              // 封装输入流is,并指定字符集
              br = new BufferedReader(new InputStreamReader(is, "UTF-8"));
              // 存放数据
              StringBuffer sbf = new StringBuffer();
              String temp = null;
              while ((temp = br.readLine()) != null) {
                  sbf.append(temp);
                  sbf.append("\r\n");
              result = sbf.toString();
```

```
} catch (MalformedURLException e) {
       e.printStackTrace();
    } catch (IOException e) {
       e.printStackTrace();
    } finally {
       // 关闭资源
       if (null != br) {
           try {
               br.close();
           } catch (IOException e) {
               e.printStackTrace();
           }
       }
       if (null != is) {
           try {
               is.close();
           } catch (IOException e) {
               e.printStackTrace();
           }
       }
       connection.disconnect();// 关闭远程连接
    }
   return result;
}
/**
 * @param httpUrl 请求的url
 * @param param form表单的参数 (key,value形式)
 * @return
//发送post请求,注意请求微信小程序接口的格式是"Content-Type":"application/json"
public static String doPostForm(String httpUrl, Map param) {
   HttpURLConnection connection = null;
    InputStream is = null;
    OutputStream os = null;
    BufferedReader br = null;
    String result = null;
    try {
       URL url = new URL(httpUrl);
       // 通过远程url连接对象打开连接
       connection = (HttpURLConnection) url.openConnection();
       // 设置连接请求方式
       connection.setRequestMethod("POST");
```

```
// 设置连接主机服务器超时时间: 15000毫秒
          connection.setConnectTimeout(15000);
          // 设置读取主机服务器返回数据超时时间: 60000毫秒
          connection.setReadTimeout(60000);
          // 默认值为: false, 当向远程服务器传送数据/写数据时, 需要设置为true
          connection.setDoOutput(true);
          // 默认值为: true, 当前向远程服务读取数据时,设置为true,该参数可有可无
          connection.setDoInput(true);
          // 设置传入参数的格式:请求参数应该是 name1=value1&name2=value2 的形式。
          connection.setRequestProperty("Content-Type",
"application/json");
          // 设置鉴权信息: Authorization: Bearer da3efcbf-0845-4fe3-8aba-
ee040be542c0
          //connection.setRequestProperty("Authorization", "Bearer
da3efcbf-0845-4fe3-8aba-ee040be542c0");
          // 通过连接对象获取一个输出流
          os = connection.getOutputStream();
          // 通过输出流对象将参数写出去/传输出去,它是通过字节数组写出的(form表单形式
的参数实质也是key,value值的拼接,类似于get请求参数的拼接)
          JSONObject json = new JSONObject(param);
          os.write( createLinkString(param).getBytes() );
          // 通过连接对象获取一个输入流,向远程读取
          if (connection.getResponseCode() == 200) {
              is = connection.getInputStream();
              // 对输入流对象进行包装:charset根据工作项目组的要求来设置
              br = new BufferedReader(new InputStreamReader(is, "UTF-8"));
              StringBuffer sbf = new StringBuffer();
              String temp = null;
              // 循环遍历一行一行读取数据
              while ((temp = br.readLine()) != null) {
                  sbf.append(temp);
                  sbf.append("\r\n");
              result = sbf.toString();
       } catch (MalformedURLException e) {
          e.printStackTrace();
       } catch (IOException e) {
          e.printStackTrace();
       } finally {
          // 关闭资源
          if (null != br) {
              try {
                  br.close();
              } catch (IOException e) {
```

```
e.printStackTrace();
          }
       }
       if (null != os) {
          try {
              os.close();
          } catch (IOException e) {
              e.printStackTrace();
       if (null != is) {
          try {
              is.close();
           } catch (IOException e) {
              e.printStackTrace();
          }
       }
       // 断开与远程地址url的连接
       connection.disconnect();
   return result;
}
//发送"application/json"格式的POST请求
public static String doPostForm(String httpUrl, JSONObject param) {
   HttpURLConnection connection = null;
   InputStream is = null;
   OutputStream os = null;
   BufferedReader br = null;
   String result = null;
   try {
       URL url = new URL(httpUrl);
       // 通过远程url连接对象打开连接
       connection = (HttpURLConnection) url.openConnection();
       // 设置连接请求方式
       connection.setRequestMethod("POST");
       // 设置连接主机服务器超时时间: 15000毫秒
       connection.setConnectTimeout(15000);
       // 设置读取主机服务器返回数据超时时间: 60000毫秒
       connection.setReadTimeout(60000);
       // 默认值为: false, 当向远程服务器传送数据/写数据时, 需要设置为true
       connection.setDoOutput(true);
       // 默认值为: true, 当前向远程服务读取数据时,设置为true,该参数可有可无
       connection.setDoInput(true);
       // 设置传入参数的格式:请求参数应该是 name1=value1&name2=value2 的形式。
       connection.setRequestProperty("Content-Type",
```

```
"application/json");
           // 设置鉴权信息: Authorization: Bearer da3efcbf-0845-4fe3-8aba-
ee040be542c0
           //connection.setRequestProperty("Authorization", "Bearer
da3efcbf-0845-4fe3-8aba-ee040be542c0");
          // 通过连接对象获取一个输出流
           os = connection.getOutputStream();
           // 通过输出流对象将参数写出去/传输出去,它是通过字节数组写出的(form表单形式
的参数实质也是key,value值的拼接,类似于get请求参数的拼接)
           os.write( param.toString().getBytes() );
           // 通过连接对象获取一个输入流,向远程读取
           if (connection.getResponseCode() == 200) {
              is = connection.getInputStream();
              // 对输入流对象进行包装:charset根据工作项目组的要求来设置
              br = new BufferedReader(new InputStreamReader(is, "UTF-8"));
              StringBuffer sbf = new StringBuffer();
              String temp = null;
              // 循环遍历一行一行读取数据
              while ((temp = br.readLine()) != null) {
                  sbf.append(temp);
                  sbf.append("\r\n");
              result = sbf.toString();
       } catch (MalformedURLException e) {
           e.printStackTrace();
       } catch (IOException e) {
           e.printStackTrace();
       } finally {
           // 关闭资源
           if (null != br) {
              try {
                  br.close();
              } catch (IOException e) {
                  e.printStackTrace();
           if (null != os) {
              try {
                  os.close();
              } catch (IOException e) {
                  e.printStackTrace();
              }
           if (null != is) {
```

```
try {
               is.close();
           } catch (IOException e) {
               e.printStackTrace();
           }
       }
       // 断开与远程地址url的连接
       connection.disconnect();
    return result;
}
/**
 * 把数组所有元素排序,并按照"参数=参数值"的模式用"&"字符拼接成字符串
 * @param params 需要排序并参与字符拼接的参数组
 * @return 拼接后字符串
public static String createLinkString(Map<String, String> params) {
    List<String> keys = new ArrayList<String>(params.keySet());
   Collections.sort(keys);
    StringBuilder prestr = new StringBuilder();
    for (int i = 0; i < keys.size(); i++) {</pre>
       String key = keys.get(i);
       String value = params.get(key);
       if (i == keys.size() - 1) {// 拼接时,不包括最后一个&字符
           prestr.append(key).append("=").append(value);
       } else {
           prestr.append(key).append("=").append(value).append("&");
   }
    return prestr.toString();
}
//String 转 Map
public static Map<String,Object> strToJson(String jsonString) {
    Gson gson = new Gson();
   Map<String, Object> map = new HashMap<String, Object>();
   map = gson.fromJson(jsonString, map.getClass());
    return map;
}
```

}

SignUp.java

```
package com.weixin;
import com.dao.Dao;
import com.dao.SqlArray;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.text.SimpleDateFormat;
import java.util.*;
public class SignUp {
   /*
       category_value 失物类别
       LostTime 丢失时间
       LostPosition 丢失地点
       LostPerson 联系人
       LostTelNumber 联系方式
       LostThingsPicture 失物照片
       LostMessage 备注
   */
   //create table data_enrol(category_value char(50),LostTime
char(100),LostPosition char(100),LostPerson char(50),LostTelNumber
char(50),LostThingsPicture longtext,LostMessage longtext,model char(10));
   //进行报名
   public static boolean Enrol(String category_value, String LostTime,
String LostPosition, String LostPerson, String LostTelNumber, String
LostThingsPicture,String LostMessage,String model) {
       //ticket就是准考证号,准考证号就是登录名
       try {
           Connection conn = Dao.getConnection(); //连接数据库
           /* 对报名的数据库进行补充 */
           //sql语句预编译
           PreparedStatement p = conn.prepareStatement("insert into
data_enrol(category_value,LostTime,LostPosition,LostPerson,LostTelNumber,Lost
ThingsPicture,LostMessage,model) VALUES (?,?,?,?,?,?,?);");
           //对占位符进行补充
           p.setString(1, category_value);
           p.setString(2, LostTime);
           p.setString(3, LostPosition);
```

```
p.setString(4, LostPerson);
           p.setString(5, LostTelNumber);
           p.setString(6, LostThingsPicture);
           p.setString(7, LostMessage);
           p.setString(8, model);
           System.out.println(p);
           p.executeUpdate();
                                    //运行sql语句
           System.out.println("登记成功");
           Dao.close(p, conn); //关闭数据库连接
           return true;
       } catch (Exception e) {
           System.out.println("登记失败");
           e.printStackTrace();
           return false;
       }
   }
   //查询总的数目
   public static int queryNum(String which){
       int res = 0;
       try {
           Connection conn = Dao.getConnection();
                                                           //连接数据库
           PreparedStatement p = conn.prepareStatement("select count(*) from
data_enrol where model=?;"); //查看报名的人数
           p.setString(1,which);
           ResultSet rs = p.executeQuery();
           if(rs.next()){
               res = rs.getInt(1);
               Dao.close(rs, p, conn);
              return res;
           }
           Dao.close(rs, p, conn);
       } catch (Exception e) {
           e.printStackTrace();
       return res;
   }
   //返回全部报名人及信息
   public static List signupList(String which){
                      //标记一下当前页数是否有数据
       int sign = 0;
       //参考链接:
https://blog.csdn.net/weixin_28779183/article/details/117810091
       List list = new ArrayList();
       int res = 0;
       try {
           Connection conn = Dao.getConnection(); //连接数据库
           PreparedStatement p = conn.prepareStatement("select * from
```

```
data_enrol where model=?;"); //查看报名信息
           p.setString(1,which);
           ResultSet rs = p.executeQuery();
           while(rs.next()){
                                     //不断获取读到的数据
               sign = 1;
               //category_value char(50),LostTime char(100),LostPosition
char(100), LostPerson char(50), LostTelNumber char(50), LostThingsPicture
longtext,LostMessage longtext,model char(10));
               Map<String, String> data = new HashMap();
               //获取到对应列的数据保存的map中
               data.put("category_value", rs.getString("category_value"));
               data.put("LostTime", rs.getString("LostTime"));
               data.put("LostPosition", rs.getString("LostPosition"));
               data.put("LostPerson", rs.getString("LostPerson"));
               data.put("LostTelNumber", rs.getString("LostTelNumber"));
               String s = rs.getString("LostThingsPicture");
               if( s == null ){
                   data.put("LostThingsPicture", null);
                   data.put("FirstPicture", null);
                                  //返回一个全部图片的地址和第一个图片的地址
               }else{
                   s = s.replaceAll("\\\","/");
                   data.put("LostThingsPicture",s);
                   String[] tmpa = SqlArray.SeparationArray(s);
                   data.put("FirstPicture", tmpa[0]);
               }
               data.put("LostMessage", rs.getString("LostMessage"));
               //返回类型
               if( "picker".equals(rs.getString("model"))){ //说明是拾物
                   data.put("model","拾物");
               }else{
                   data.put("model","失物");
               list.add(data); //加本次的map进入到链表中
           Dao.close(rs, p, conn);
       } catch (Exception e) {
           e.printStackTrace();
       if( sign == 1 ){
           return list;
       }else{
           return null;
       }
```

```
//返回部分报名人及信息
   public static List signupList(int page,int limit,String which){
                        //标记一下当前页数是否有数据
       int sign = 0;
       //参考链接:
https://blog.csdn.net/weixin_28779183/article/details/117810091
       List list = new ArrayList();;
       try {
           Connection conn = Dao.getConnection();
                                                             //连接数据库
           // 进行分页
           // page 页码 limit 每页数量
           // select * from TABLE_NAME where ... order by ... limit (page
-1) * limit, limit
           PreparedStatement p = conn.prepareStatement("select * from
data_enrol where model=? limit ?,?;"); //查看报名信息
           p.setString(1,which);
           p.setInt(2,(page -1) * limit);
           p.setInt(3, limit);
           ResultSet rs = p.executeQuery();
           while(rs.next()){
               sign = 1;
               Map<String, String> data = new HashMap();
               data.put("category_value", rs.getString("category_value"));
               data.put("LostTime", rs.getString("LostTime"));
               data.put("LostPosition", rs.getString("LostPosition"));
               data.put("LostPerson", rs.getString("LostPerson"));
               data.put("LostTelNumber", rs.getString("LostTelNumber"));
               String s = rs.getString("LostThingsPicture");
               if( s == null ){
                   data.put("LostThingsPicture", null);
                   data.put("FirstPicture", null);
               }else{
                   s = s.replaceAll("\\\","/");
                   data.put("LostThingsPicture",s);
                   String[] tmpa = SqlArray.SeparationArray(s);
                   data.put("FirstPicture", tmpa[0]);
               }
               data.put("LostMessage", rs.getString("LostMessage"));
               if( "picker".equals(rs.getString("model")) ){ //说明是拾物
                   data.put("model","拾物");
               }else{
                   data.put("model","失物");
               list.add(data);
```

```
Dao.close(rs, p, conn);
       } catch (Exception e) {
           e.printStackTrace();
       }
       //System.out.println(list);
       if( sign == 1 ){
           return list;
       }else{
           return null;
   }
   //进行查询返回部分报名人及信息
    public static List searchList(int page,int limit,String
category_value,String begintime,String endtime,String find,String which){
       int sign = 0;
                             //标记一下当前页数是否有数据
       //limit ?,?;
       //进行拼接
       String sql = "select * from data_enrol where model='"+which+"'";
       if( category_value != null && !"".equals(category_value)){
//说明有筛选类别
           sql += (" and category_value='" + category_value+"'");
           if( find != null && !"".equals(find)){
               sql += (" and (LostPosition like '%"+ find +"%' or
LostMessage like '%" + find+"%')");
       }else{
           if( find != null && !"".equals(find)){
               sql += (" and LostPosition like '%"+ find +"%' or LostMessage
like '%" + find+"%'");
       }
       sql += " limit ?,?;";
       //参考链接:
https://blog.csdn.net/weixin_28779183/article/details/117810091
       List list = new ArrayList();
       int res = 0;
       try {
           Connection conn = Dao.getConnection(); //连接数据库
           // page 页码 limit 每页数量
           // select * from TABLE_NAME where ... order by ... limit (page
-1) * limit, limit
           PreparedStatement p = conn.prepareStatement(sql); //查看报名
```

```
信息
           p.setInt(1,(page -1) * limit);
           p.setInt(2, limit);
           System.out.println(p);
           ResultSet rs = p.executeQuery();
           //从前端或者自己模拟一个日期格式,转为String即可
           SimpleDateFormat format = new SimpleDateFormat("yyyy-MM-dd");
           //将字符串日期转为日期
           Date datebegin = null, dateend = null;
           int time = 0;
           if( begintime != null && !"".equals(begintime) && endtime != null
&& !"".equals(endtime)){
               datebegin = format.parse(begintime);
               dateend = format.parse(endtime);
               time = 1;
           }
           while(rs.next()){
               Map<String, String> data = new HashMap();
               Date when = format.parse(rs.getString("LostTime"));
                                           //判断现在时间是否在选择的时间范围内
               if( time == 1){
                   if(!(when.after(datebegin) && when.before(dateend)) ){
                       continue;
                   }
               }
               sign = 1;
               data.put("category_value", rs.getString("category_value"));
               data.put("LostTime", rs.getString("LostTime"));
               data.put("LostPosition", rs.getString("LostPosition"));
               data.put("LostPerson", rs.getString("LostPerson"));
               data.put("LostTelNumber", rs.getString("LostTelNumber"));
               String s = rs.getString("LostThingsPicture");
               if( s == null ){
                   data.put("LostThingsPicture", null);
                   data.put("FirstPicture", null);
               }else{
                   s = s.replaceAll("\\\","/"); //字符串替代
                   data.put("LostThingsPicture",s);
                   String[] tmpa = SqlArray.SeparationArray(s);
                   data.put("FirstPicture", tmpa[0]);
               }
               data.put("LostMessage", rs.getString("LostMessage"));
               if( "picker".equals(rs.getString("model")) ){ //说明是拾物
                   data.put("model","拾物");
               }else{
```

applicationContext.xml

dispatcher-servlet.xml

```
<!-- 配置自动扫描的包 -->
   <context:component-scan base-package="com.controller">
</context:component-scan>
   <!-- 静态资源(js、image等)的访问 -->
   <mvc:default-servlet-handler/>
   <!-- 开启注解 -->
   <mvc:annotation-driven/>
          Handlermapper和HandlerAdapter-->
   <!--<bean class="com.test.controller.WelcomeController"></bean>-->
   <!-- 配置视图解析器 如何把handler 方法返回值解析为实际的物理视图 -->
class="org.springframework.web.servlet.view.InternalResourceViewResolver">
       property name="viewClass"
value="org.springframework.web.servlet.view.JstlView"/>
       cproperty name = "prefix" value="/WEB-INF/views/">
       cproperty name = "suffix" value = ".jsp">
   </bean>
   <!-- 配置MultipartResolver,用于上传文件,使用spring的
CommonsMultipartResolver -->
   <bean id="multipartResolver"</pre>
class="org.springframework.web.multipart.commons.CommonsMultipartResolver">
       cproperty name="maxUploadSize" value="5000000" />
       cproperty name="defaultEncoding" value="UTF-8" />
   </bean>
</beans>
```

web.xml

```
class>org.springframework.web.filter.CharacterEncodingFilter</filter-class>
        <init-param>
            <param-name>encoding</param-name>
            <param-value>UTF-8</param-value>
        </init-param>
        <init-param>
            <param-name>forceEncoding</param-name>
            <param-value>true</param-value>
        </init-param>
    </filter>
    <filter-mapping>
        <filter-name>characterEncodingFileter</filter-name>
        <url-pattern>/*</url-pattern>
    </filter-mapping>
    <!-- 自己用的过滤器 -->
    <filter>
        <filter-name>crossFilter</filter-name>
        <filter-class>com.filter.CrossFilter</filter-class>
    </filter>
    <filter-mapping>
        <filter-name>crossFilter</filter-name>
        <url-pattern>/*</url-pattern>
   </filter-mapping>
   <!--web.xml是用来启动DispatcherServlet -->
    <servlet>
        <!--这里写成对应名字-->
        <servlet-name>dispatcher</servlet-name>
        <servlet-
class>org.springframework.web.servlet.DispatcherServlet/servlet-class>
        <!-- 启动顺序,数字越小,启动越早 -->
        <load-on-startup>1</load-on-startup>
    </servlet>
    <!--所有请求都会被dispatcher拦截 -->
    <servlet-mapping>
        <servlet-name>dispatcher</servlet-name>
        <url-pattern>/</url-pattern>
    </servlet-mapping>
    <welcome-file-list>
        <welcome-file>index.html</welcome-file>
        <welcome-file>index.htm</welcome-file>
        <welcome-file>index.jsp</welcome-file>
        <welcome-file>default.html</welcome-file>
        <welcome-file>default.htm</welcome-file>
```

(2022.4.4)

完善版2.0

完善:

- 1.简化部分接口参数名称
- 2.解决数据库中文乱码 【web.xml加代码和数据库加链接】
- 3.部分接口一个改成两个

修正部分

HelloController.java

```
package com.controller;
import com.dao.SqlArray;
import com.file.FileUpload;
import com.logic.Login;
import com.url.Request;
import com.weixin.SignUp;
import org.springframework.http.*;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.*;
import com.google.gson.Gson;
//import net.sf.json.JSONObject;
import com.alibaba.fastjson.JSONObject;
import org.springframework.web.multipart.MultipartFile;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.File;
import java.io.IOException;
import java io PrintWriter;
import java.util.*;
//使用Controller来标识它是一个控制器
@Controller
```

```
//@CrossOrigin
@RequestMapping(value = "/api")
public class HelloController {
   //全局变量
   public static String appid = "wxf58558547a7b352a";
    public static String secret = "c2ca1a3ee37256c970a0d6c4f4e475fc" ;
   //测试springmvc是否创建成功
   @RequestMapping(value = "/helloworld")
    public String Hello() {
       return "cs";
   }
   /* 测试链接
   * 请求: Get
   * 链接: 地址/api/cs
   * 参数: 无
    * 返回: json {"msg":"HelloWorld"}
   @RequestMapping(value = "/cs")
    public @ResponseBody Map<String,String> cs() {
       Map<String, String> data = new HashMap<String, String>();
       data.put("msg","HelloWorld" );
       return data;
   }
   /*
    * 获取两张图片
    * 请求: Get
    * 链接: 地址/api/getpicture
    * 参数: 无
    * 返回: json
    * {
           "msg":"ok",
            "picture1":"/img/LostButtonPicture.png",
            "picture2":"/img/PickUpButtonPicture.png"
    * }
   @RequestMapping(value = "/getpicture")
    public @ResponseBody
   Map<String, String> getPicture() {
       Map<String, String> data = new HashMap<String, String>();
       data.put("msg","ok" );
       data.put("picture1","/img/LostButtonPicture.png");
       data.put("picture2","/img/PickUpButtonPicture.png");
       return data;
```

```
/* 注册
    * 请求: Get
    * 链接: 地址/api/register
    * 参数: 无
    * 返回: json {"msg":"HelloWorld"}
    */
   @RequestMapping(value = "/register", method = RequestMethod.POST)
   public @ResponseBody
   Map<String,String> register(HttpServletRequest request) {
       String code = request.getParameter("code");
       Map<String,String> data = new HashMap<String,String>();
       data.put("msg","ok" );
       return data;
   }
   /* 获取手机号码
    * 请求: POST
    * 链接: 地址/api/getphone
    *参数: 手机号码获取的code
    * 返回: json {"msg":"HelloWorld"}
   @RequestMapping(value = "/getphone", method = RequestMethod.POST)
   public @ResponseBody Map<String,String> getPhone(HttpServletRequest
request) {
       Map<String, String> data = new HashMap<String, String>();
       try{
           //获取前端传过来的code
           String code = request.getParameter("code");
           System.out.println(code);
           //获取获取小程序全局唯一后台接口调用凭据(access_token)
           String getTokenUrl = "https://api.weixin.qq.com/cgi-bin/token?
grant_type=client_credential&appid="+appid+"&secret="+secret;
           String jsonStringa = Request.doGet(getTokenUrl);
           System.out.println(jsonStringa);
           //String转JSON
           JSONObject jsonObject = JSONObject.parseObject(jsonStringa);
           String access_token = jsonObject.getString("access_token");
           //提交参数
           String getPhoneUrl =
"https://api.weixin.qq.com/wxa/business/getuserphonenumber?
access_token="+access_token;
           Map<String,Object> map = new HashMap<String,Object>();
           //map.put("access_token",access_token);
```

```
map.put("code",code);
           JSONObject json = new JSONObject(map);
           System.out.println(map);
           System.out.println(json);
           String jsonStringb = Request.doPostForm(getPhoneUrl,json);
           System.out.println(jsonStringb);
           //String转JSON
           JSONObject jsonObject2 = JSONObject.parseObject(jsonStringb);
           HashMap hashMap =
JSONObject.parseObject(jsonObject2.toJSONString(), HashMap.class);
           if( 0 == (int)hashMap.get("errcode") ){
                                                                  //请求成功
               data.put("msg","ok" );
               JSONObject tmp2 = (JSONObject)hashMap.get("phone_info");
               data.put("phone",(String)tmp2.get("phoneNumber"));
           }else{
               data.put("msg","fail" );
               data.put("error",(int)hashMap.get("errcode")+"" );
           }
       }catch (Exception e){
           System.out.println(e);
           data.put("msg","fail" );
       }
       return data;
   }
   /* 登录
    * 请求: POST
    * 链接: 地址/api/login
    *参数:登录获取的code
    * 返回: json {"skey":""}
    */
   @RequestMapping(value = "/login", method = RequestMethod.POST)
    public @ResponseBody Map<String,String> login(HttpServletRequest request)
{
       Map<String, String> data = new HashMap<String, String>();
       try {
           //获取前端传过来的code
           String code = request.getParameter("code");
           //Get请求(登录凭证校验)
           String getAuthUrl =
"https://api.weixin.qq.com/sns/jscode2session?appid=" + appid + "&secret=" +
secret + "&js_code=" + code + "&grant_type=authorization_code";
           String jsonString = Request.doGet(getAuthUrl);
           System.out.println(jsonString);
```

```
//String转JSON,再json转为map
           JSONObject jsonObject = JSONObject.parseObject(jsonString);
           HashMap hashMap =
JSONObject.parseObject(jsonObject.toJSONString(), HashMap.class);
           //注意这里要加上 hashMap.get("errcode") == null
           if ( hashMap.get("errcode") == null || 0 == (int)
hashMap.get("errcode")) {
                                      //请求成功
               data.put("msg", "ok");
               //得到openid和session_key去生成3rd_session
               //这个生成3rd_session的方式自己决定即可,比如使用SHA或Base64算法都可
以。例如:将session_key或openid+session_key作为SHA或Base64算法的输入,输出结果做为
3rd_session来使用,同时要将openid, session_key, 3rd_session三者关联存储到数据库中,
方便下次拿3rd_session获取session_key或openid做其他处理。
               String openid = (String) hashMap.get("openid");
               String session_key = (String) hashMap.get("session_key");
               //uuid生成唯一
key(https://blog.csdn.net/weixin_38169886/article/details/99820453?
utm_medium=distribute.pc_relevant.none-task-blog-
2~default~baidujs_baidulandingword~default-
5.pc_relevant_default&spm=1001.2101.3001.4242.4&utm_relevant_index=8)
               String skey = UUID.randomUUID().toString();
               //判断是否注册过
               boolean tmp = Login.checkUser(openid);
               if (tmp == false) {
                                            //没有注册过
                   Login.register(openid, skey);
                   data.put("msg", "ok");
                   data.put("skey", skey);
               } else {
                                               //注册过,更新新的skey
                   Login.updateskey(openid, skey);
                  data.put("skey", skey);
           } else {
               data.put("msg", "fail");
               data.put("error", (int) hashMap.get("errcode") + "");
       catch(Exception e){
           e.printStackTrace();
           data.put("msg", "fail");
           data.put("error", e.toString());
       return data;
   //文件上传
```

```
* HTTP请求: POST
   * 参数: file (可以是一个文件,也可以是多个文件)
   * 请求链接: 地址/api/upload
   * {"msg":"ok","filename":""}
   * {"msg":"fail","error":""}
   * */
   @RequestMapping(value = "/upload", method = RequestMethod.POST)
   public @ResponseBody Map<String,String> Upload(@RequestParam(value =
"file",required = false) MultipartFile[] file, HttpServletResponse response,
HttpServletRequest request) throws IOException {
       Map<String, String> data = new HashMap<String, String>();
       try {
           System.out.println("总共有"+file.length+"个文件");
           // 文件上传到服务器的位置"/files"
           System.out.println("正在上传文件");
           List<String> fileList = new ArrayList<>(); //全部的数组
           for( MultipartFile f:file){
               String filelocation = FileUpload.SaveServer(f,request);
              if( filelocation != null ){
                  fileList.add(filelocation);
              }else{
                  data.put("msg","fail");
                  data.put("error","文件上传失败");
                  return data;
              }
           }
           //合并
           String all_file = SqlArray.Merge(fileList); //全部的
           System.out.println(all_file);
           data.put("msg","ok");
           data.put("filepath",all_file);
       }catch (Exception e){
           e.printStackTrace();
       return data;
   //失主提交页面
   /*
      HTTP请求: POST
       请求链接: 地址/api/ownerEnrol
       参数: 7
           category_value 失物类别
           LostTime 丢失时间
           LostPosition 丢失地点
```

```
LostPerson 联系人
           LostTelNumber 联系方式
           LostThingsPicture 失物照片
           FilePath
                           图片位置
           LostMessage 备注
       返回JSON
           提交成功
           {
              "msg":"ok"
           }
           提交失败
           {
             "msg":"fail",
             "error":错误原因
           }
   */
   //失主
   @RequestMapping(value = "/ownerEnrol", method = RequestMethod.POST)
   public @ResponseBody Map<String,String> Enrol(HttpServletResponse
response, HttpServletRequest request) throws IOException {
       Map<String, String> data = new HashMap<String, String>();
       try {
           /*
           category_value 失物类别
           LostTime 丢失时间
           LostPosition 丢失地点
           LostPerson 联系人
           LostTelNumber 联系方式
           LostThingsPicture 失物照片
           LostMessage 备注
           * */
           String category_value = request.getParameter("category_value");
           String LostTime = request.getParameter("Time");
           String LostPosition = request.getParameter("Position");
           String LostPerson = request.getParameter("Person");
           String LostTelNumber = request.getParameter("TelNumber");
           String LostMessage = request.getParameter("Message");
           String FilePath = request.getParameter("FilePath");
           if ( category_value == null
                  || LostTime == null || LostTelNumber == null ||
LostMessage == null
                  || "".equals(category_value) || "".equals(LostTime) ||
"".equals(LostTelNumber) || "".equals(LostMessage) ) {
              data.put("msg", "fail");
              data.put("error", "失物类型,失物丢失时间,失物情况,联系方式为必填项且
不能为空");
              throw new NullPointerException("xx");
                                                         //抛出异常
```

```
//进行登记
           if
(SignUp.Enrol(category_value,LostTime,LostPosition,LostPerson,LostTelNumber,F
ilePath,LostMessage,"owner")) {
              data.put("msg", "ok");
          }else{
              data.put("msg","fail");
              data.put("error","写入数据库失败");
       }catch (Exception e){
           e.printStackTrace();
       return data;
   }
   //拾主提交页面
   /*
      HTTP请求: POST
       请求链接: 地址/api/pickerEnrol
       参数: 7
          category_value 失物类别
          LostTime 丢失时间
          LostPosition 丢失地点
           LostPerson 联系人
           LostTelNumber 联系方式
           FilePath 图片位置
           LostMessage 备注
       返回JSON
          提交成功
           {
              "msg":"ok"
           }
          提交失败
             "msg":"fail",
             "error":错误原因
          }
   */
   //拾主
   @RequestMapping(value = "/pickerEnrol", method = RequestMethod.POST)
   public @ResponseBody Map<String,String> pickerEnrol(HttpServletResponse
response, HttpServletRequest request) throws IOException {
       Map<String, String> data = new HashMap<String, String>();
       try {
```

```
category_value 失物类别
           LostTime 丢失时间
           LostPosition 丢失地点
           LostPerson 联系人
           LostTelNumber 联系方式
           LostThingsPicture 失物照片
           LostMessage 备注
           * */
           String category_value = request.getParameter("category_value");
           String LostTime = request.getParameter("Time");
           String LostPosition = request.getParameter("Position");
           String LostPerson = request.getParameter("Person");
           String LostTelNumber = request.getParameter("TelNumber");
           String LostMessage = request.getParameter("Message");
           String FilePath = request.getParameter("FilePath");
          if ( category_value == null
                  || LostTime == null || LostTelNumber == null ||
LostMessage == null
                  || "".equals(category_value) || "".equals(LostTime) ||
"".equals(LostTelNumber) || "".equals(LostMessage) ) {
              data.put("msg", "fail");
              data.put("error", "失物类型,失物丢失时间,失物情况,联系方式为必填项且
不能为空");
              throw new NullPointerException("xx"); //抛出异常
           }
           //进行登记
           if
(SignUp.Enrol(category_value,LostTime,LostPosition,LostPerson,LostTelNumber,F
ilePath,LostMessage,"picker")) {
              data.put("msg", "ok");
           }else{
              data.put("msg","fail");
              data.put("error","写入数据库失败");
       }catch (Exception e){
           e.printStackTrace();
       return data;
   }
   //显示失物数据
      HTTP请求: POST
       请求链接: 地址/api/ownershowdata
       参数: page(字符串)
```

```
返回JSON
           获取成功
           {
               "msg":"ok",
               "num":"总数量"
               "data":{
                    (数组类型的数据)
               }
           }
           获取失败
              "msg":"fail",
              "num":"总数量",
              "error":错误原因
           }
   */
   @RequestMapping(value = "/ownershowdata", method = RequestMethod.POST)
   public @ResponseBody Map<String,Object> ownershowData(HttpServletResponse
response, HttpServletRequest request) throws IOException {
       Map<String, Object> data = new HashMap<String, Object>();
       try {
           int num = SignUp.queryNum("owner");
           String page = request.getParameter("page");
           List list = SignUp.signupList(Integer.parseInt(page),10,"owner");
//每页显示10条数据
           data.put("num",""+num);
           if( list == null ){
               data.put("msg","fail");
               data.put("error","当前页面已经无数据");
           }else{
               data.put("msg","ok");
               data.put("data",list);
           }
       }catch (Exception e){
           e.printStackTrace();
       return data;
   }
   //显示失物搜索数据
   /*
       HTTP请求: POST
       请求链接: 地址/api/ownersearch
       参数:
                          页数
                                  必填
           page
                                  必填
           search
           category_value
                                  非必填
                                   非必填
           begintime
```

```
endtime
                                   非必填
        返回JSON
           获取成功
           {
               "msg":"ok",
               "data":{
                    (数组类型的数据)
           }
           获取失败
              "msg":"fail",
              "error":错误原因
           }
    */
   @RequestMapping(value = "/ownersearch", method = RequestMethod.POST)
    public @ResponseBody Map<String,Object> ownersearch(HttpServletResponse
response, HttpServletRequest request) throws IOException {
       Map<String, Object> data = new HashMap<String, Object>();
       try {
           int num = SignUp.queryNum("owner");
           String page = request.getParameter("page");
           String search = request.getParameter("search");
           String category_value = request.getParameter("category_value");
           String begintime = request.getParameter("begintime");
           String endtime = request.getParameter("endtime");
           if( page == null || "".equals(page) || search == null ||
"".equals(search) ){
               data.put("msg","fail");
               data.put("error","page和search为必填项");
               return data;
           }
           List list =
SignUp.searchList(Integer.parseInt(page),10,category_value,begintime,endtime,
search, "owner"); //每页显示10条数据
           if( list == null ){
               data.put("msg","fail");
               data.put("error","当前页面已经无数据");
           }else{
               data.put("msg","ok");
               System.out.println(list.toString());
               data.put("data",list);
       }catch (Exception e){
           e.printStackTrace();
        return data;
```

```
//显示拾物数据
   /*
      HTTP请求: POST
       请求链接: 地址/api/pickershowdata
       参数: page(字符串)
       返回JSON
           获取成功
           {
               "msg":"ok",
               "num":"总数量"
               "data":{
                  (数组类型的数据)
           }
           获取失败
           {
              "msg":"fail",
              "num":"总数量",
              "error":错误原因
           }
   */
   @RequestMapping(value = "/pickershowdata", method = RequestMethod.POST)
   public @ResponseBody Map<String,Object>
pickershowData(HttpServletResponse response, HttpServletRequest request)
throws IOException {
       Map<String, Object> data = new HashMap<String, Object>();
       try {
           int num = SignUp.queryNum("picker");
           String page = request.getParameter("page");
           List list =
SignUp.signupList(Integer.parseInt(page),10,"picker"); //每页显示10条数
据
           data.put("num",""+num);
           if( list == null ){
               data.put("msg","fail");
               data.put("error","当前页面已经无数据");
           }else{
               data.put("msg","ok");
               data.put("data",list);
       }catch (Exception e){
           e.printStackTrace();
       return data;
   }
   //显示拾物搜索数据
```

```
/*
       HTTP请求: POST
       请求链接: 地址/api/pickersearch
       参数:
           page
                   页数
                                 必填
                                  必填
           search
           category_value
                                 非必填
           begintime
                                  非必填
           endtime
                                  非必填
       返回JSON
           获取成功
           {
               "msg":"ok",
               "data":{
                   (数组类型的数据)
               }
           }
           获取失败
              "msg":"fail",
              "error":错误原因
           }
   */
   @RequestMapping(value = "/pickersearch", method = RequestMethod.POST)
   public @ResponseBody Map<String,Object> pickersearch(HttpServletResponse
response, HttpServletRequest request) throws IOException {
       Map<String, Object> data = new HashMap<String, Object>();
       try {
           int num = SignUp.queryNum("picker");
           String page = request.getParameter("page");
           String search = request.getParameter("search");
           String category_value = request.getParameter("category_value");
           String begintime = request.getParameter("begintime");
           String endtime = request.getParameter("endtime");
           if( page == null || "".equals(page) || search == null ||
"".equals(search) ){
               data.put("msg","fail");
               data.put("error","page和search为必填项");
               return data;
           }
           List list =
SignUp.searchList(Integer.parseInt(page),10,category_value,begintime,endtime,
search, "owner"); //每页显示10条数据
           if( list == null ){
               data.put("msg","fail");
               data.put("error","当前页面已经无数据");
           }else{
```

SignUp.java

```
package com.weixin;
import com.dao.Dao;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.text.SimpleDateFormat;
import java.util.*;
public class SignUp {
   /*
       category_value 失物类别
       LostTime 丢失时间
       LostPosition 丢失地点
       LostPerson 联系人
       LostTelNumber 联系方式
       LostThingsPicture 失物照片
       LostMessage 备注
   */
   //create table data_enrol(category_value char(50),LostTime
char(100),LostPosition char(100),LostPerson char(50),LostTelNumber
char(50),LostThingsPicture longtext,LostMessage longtext,model char(10));
   //进行报名
   public static boolean Enrol(String category_value, String LostTime,
String LostPosition, String LostPerson, String LostTelNumber, String
LostThingsPicture,String LostMessage,String model) {
       //ticket就是准考证号,准考证号就是登录名
       try {
           Connection conn = Dao.getConnection();
```

```
/* 对报名的数据库进行补充 */
           PreparedStatement p = conn.prepareStatement("insert into
data_enrol(category_value,LostTime,LostPosition,LostPerson,LostTelNumber,Lost
ThingsPicture,LostMessage,model) VALUES (?,?,?,?,?,?,?);");
           //对占位符进行补充
           p.setString(1, category_value);
           p.setString(2, LostTime);
           p.setString(3, LostPosition);
           p.setString(4, LostPerson);
           p.setString(5, LostTelNumber);
           p.setString(6, LostThingsPicture);
           p.setString(7, LostMessage);
           p.setString(8, model);
           System.out.println(p);
           p.executeUpdate();
           System.out.println("登记成功");
           Dao.close(p, conn);
           return true;
       } catch (Exception e) {
           System.out.println("登记失败");
           e.printStackTrace();
           return false;
       }
   }
   //查询总的数目
   public static int queryNum(String which){
       int res = 0;
       try {
           Connection conn = Dao.getConnection();
                                                              //连接数据库
           PreparedStatement p = conn.prepareStatement("select count(*) from
data_enrol where model=?;");
                               //查看报名的人数
           p.setString(1,which);
           ResultSet rs = p.executeQuery();
           if(rs.next()){
               res = rs.getInt(1);
               Dao.close(rs, p, conn);
               return res;
           Dao.close(rs, p, conn);
       } catch (Exception e) {
           e.printStackTrace();
       return res;
   }
   //返回全部报名人及信息
   public static List signupList(String which){
```

```
//标记一下当前页数是否有数据
       int sign = 0;
       //参考链接:
https://blog.csdn.net/weixin_28779183/article/details/117810091
       List list = new ArrayList();
       int res = 0;
       try {
           Connection conn = Dao.getConnection();
                                                              //连接数据库
           PreparedStatement p = conn.prepareStatement("select * from
                              //查看报名信息
data_enrol where model=?;");
           p.setString(1,which);
           ResultSet rs = p.executeQuery();
           while(rs.next()){
               sign = 1;
               //category_value char(50),LostTime char(100),LostPosition
char(100), LostPerson char(50), LostTelNumber char(50), LostThingsPicture
longtext,LostMessage longtext,model char(10));
               Map<String, String> data = new HashMap();
               data.put("category_value", rs.getString("category_value"));
               data.put("LostTime", rs.getString("LostTime"));
               data.put("LostPosition", rs.getString("LostPosition"));
               data.put("LostPerson", rs.getString("LostPerson"));
               data.put("LostTelNumber", rs.getString("LostTelNumber"));
               data.put("LostThingsPicture",
rs.getString("LostThingsPicture"));
               data.put("LostMessage", rs.getString("LostMessage"));
               if( "picker".equals(rs.getString("model")) ){ //说明是拾物
                   data.put("model","拾物");
               }else{
                   data.put("model","失物");
               list.add(data);
           Dao.close(rs, p, conn);
       } catch (Exception e) {
           e.printStackTrace();
       if( sign == 1 ){
           return list;
       }else{
           return null;
   }
   //返回部分报名人及信息
   public static List signupList(int page,int limit,String which){
```

```
//标记一下当前页数是否有数据
       int sign = 0;
       //参考链接:
https://blog.csdn.net/weixin_28779183/article/details/117810091
       List list = new ArrayList();;
       try {
           Connection conn = Dao.getConnection();
                                                              //连接数据库
           // page 页码 limit 每页数量
           // select * from TABLE_NAME where ... order by ... limit (page
-1) * limit, limit
           PreparedStatement p = conn.prepareStatement("select * from
data_enrol where model=? limit ?,?;"); //查看报名信息
           p.setString(1,which);
           p.setInt(2,(page -1) * limit);
           p.setInt(3, limit);
           ResultSet rs = p.executeQuery();
           while(rs.next()){
               sign = 1;
               Map<String,String> data = new HashMap();
               data.put("category_value", rs.getString("category_value"));
               data.put("LostTime", rs.getString("LostTime"));
               data.put("LostPosition", rs.getString("LostPosition"));
               data.put("LostPerson", rs.getString("LostPerson"));
               data.put("LostTelNumber", rs.getString("LostTelNumber"));
               data.put("LostThingsPicture",
rs.getString("LostThingsPicture"));
               data.put("LostMessage", rs.getString("LostMessage"));
               if( "picker".equals(rs.getString("model")) ){ //说明是拾物
                   data.put("model","拾物");
               }else{
                   data.put("model","失物");
               list.add(data);
           Dao.close(rs, p, conn);
       } catch (Exception e) {
           e.printStackTrace();
       //System.out.println(list);
       if( sign == 1 ){
           return list;
       }else{
           return null;
       }
```

}

```
//进行查询返回部分报名人及信息
   public static List searchList(int page,int limit,String
category_value,String begintime,String endtime,String find,String which){
       int sign = 0;
                             //标记一下当前页数是否有数据
       //limit ?,?;
       String sql = "select * from data_enrol where model='"+which+"'";
       if( category_value != null && !"".equals(category_value)){
//说明有筛选类别
           sql += (" and category_value='" + category_value+"'");
           if( find != null && !"".equals(find)){
               sql += (" and (LostPosition like '%"+ find +"%' or
LostMessage like '%" + find+"%')");
           }
       }else{
           if( find != null && !"".equals(find)){
               sql += (" where LostPosition like '%"+ find +"%' or
LostMessage like '%" + find+"%'");
       }
       sql += " limit ?,?;";
       //参考链接:
https://blog.csdn.net/weixin_28779183/article/details/117810091
       List list = new ArrayList();
       int res = 0;
       try {
           Connection conn = Dao.getConnection();
                                                            //连接数据库
           // page 页码 limit 每页数量
           // select * from TABLE_NAME where ... order by ... limit (page
-1) * limit, limit
           PreparedStatement p = conn.prepareStatement(sql); //查看报名
信息
           p.setInt(1,(page -1) * limit);
           p.setInt(2, limit);
           System.out.println(p);
           ResultSet rs = p.executeQuery();
           //从前端或者自己模拟一个日期格式,转为String即可
           SimpleDateFormat format = new SimpleDateFormat("yyyy-MM-dd");
           //将字符串日期转为日期
           Date datebegin = null, dateend = null;
           int time = 0;
           if( begintime != null && !"".equals(begintime) && endtime != null
&& !"".equals(endtime)){
               datebegin = format.parse(begintime);
               dateend = format.parse(endtime);
               time = 1;
```

```
while(rs.next()){
                Map<String,String> data = new HashMap();
                Date when = format.parse(rs.getString("LostTime"));
                if( time == 1){
                    if(!(when.after(datebegin) && when.before(dateend)) ){
                        continue;
                    }
                }
                sign = 1;
                data.put("category_value", rs.getString("category_value"));
                data.put("LostTime", rs.getString("LostTime"));
                data.put("LostPosition", rs.getString("LostPosition"));
                data.put("LostPerson", rs.getString("LostPerson"));
                data.put("LostTelNumber", rs.getString("LostTelNumber"));
                data.put("LostThingsPicture",
rs.getString("LostThingsPicture"));
                data.put("LostMessage", rs.getString("LostMessage"));
                if( "picker".equals(rs.getString("model"))){ //说明是拾物
                    data.put("model","拾物");
                }else{
                    data.put("model","失物");
                list.add(data);
            Dao.close(rs, p, conn);
        } catch (Exception e) {
            e.printStackTrace();
        //System.out.println(list);
        if( sign == 1 ){
            return list;
        }else{
            return null;
        }
   }
}
```

(2022.3.28)

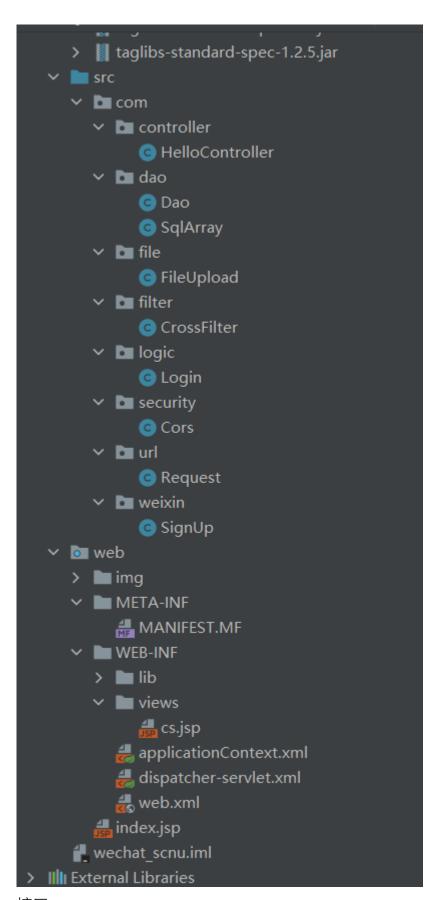
基本功能版1.0

项目结构

lib包,

lib包],	
roje	ct	▼
>	900000	activation.jar
>	900000	aopalliance-1.0.jar
>	2000000	commons-beanutils-1.4. jar
>	2000000	commons-collections-3.2.1-1.0.0.jar
>	2000	commons-file upload-1.4. jar
>	000000	commons-io-2.0.jar
>	2000000	commons-io-2.11.0.jar
>	900000	commons-lang-1_0.jar
>	STORES	commons-logging-1.1.1-1.0.0.jar
>	STORES	commons-logging-1.2.jar
>	STORES	ezmorph-0.8.1.jar
>	2000000	fastjson-1.1.30.jar
>	STORES	gson-1.4.jar
>	2000000	imap.jar
>	2000000	jackson-annotations-2.9.0.jar
>	2000000	jackson-core-2.9.0.jar
>	2000000	jackson-databind-2.9.0.jar
>	2000000	javax.annotation.jar
>	SWEET	javax.ejb.jar
>	2000000	javax.jms.jar
>	SOUTH	javax. persistence. jar
>	SOUTH	javax.resource.jar
>	SOURCE	javax.servlet.jar
>	SOURCE	javax.servlet.jsp.jar
>	SOURCE	javax.servlet.jsp.jstl.jar
>	2000000	javax.servlet-api-4.0.1.jar
>	2000000	javax.transaction.jar
>		json-lib-2.1-jdk13.jar
>		jstl.jar
>	2000	mail.jar
>		mysql-connector-java-8.0.25.jar
>	000000	smtp.jar
>		spring-aop-5.2.3.RELEASE.jar
>		spring-aspects-5.2.3.RELEASE.jar
>	1000	spring-beans-5.2.3.RELEASE.jar
	-	

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>	90000	javax.ejb.jar					
>	SWA	javax.jms.jar					
>	SWA	javax.persistence.jar					
>	SWA	javax.resource.jar					
>	SWINS.	javax.servlet.jar					
>	SHOWN STATE	javax.servlet.jsp.jar					
>	SHOWING STATES	javax.servlet.jsp.jstl.ja					
>	SHARE S	javax.servlet-api-4.0.1	.jar				
>	SHOWING STREET	javax.transaction.jar					
>	SHOWING STREET	json-lib-2.1-jdk13.jar					
>	SHOWING STREET	jstl.jar					
>	SHARE S	mail.jar					
>	SHOWN S	mysql-connector-java	-8.0.2	25.ja	r		
>	SHOWN S	smtp.jar					
>	SHOWN IN	spring-aop-5.2.3.RELE	ASE.	ar			
>	SHOWN IN	spring-aspects-5.2.3.F	RELEA	\SE.já	ar		
>	200000	spring-beans-5.2.3.RE	LEAS	E.jar			
>	SHOWN STATE OF THE PERSON	spring-context-5.2.3.F	RELE/	ASE.ja	ar		
>	SHOWING STREET	spring-context-suppo	rt-5.	2.3.R	ELEA	ASE.ja	r 📗
>	SHARE SHARE						
>	SHARE SHARE	spring-expression-5.2	.3.RE	LEAS	SE.jai	r	
>	SHARE SHARE	spring-instrument-5.2			SE.jai	r	
>		spring-jdbc-5.2.3.RELI	EASE.	.jar			
>		spring-jms-5.2.3.RELE					
>		spring-messaging-5.2			E.jar		
>		spring-orm-5.2.3.RELE					
>							
>			-				
>							
>				-			
>		spring-webmvc-5.2.3.	RELE	ASE.	jar		
>		standard-2.2.0.jar					
>		taglibs-standard-impl					
>		taglibs-standard-spec	-1.2.	5.jar			



```
api/* (com.controller.HelloCont ►)

/api/getphone [POST]

/api/helloworld

/api/login [POST]

/api/ownerEnrol [POST]

/api/pickerEnrol [POST]

/api/register [POST]

/api/search [POST]

/api/showdata [POST]
```

新增了:

- 1.登录接口
- 2.失物登记接口
- 3.拾物登记接口
- 4.显示数据接口
- 5.搜索筛选接口
- 上个版本功能:
- 1.返回两张图片
- 2.得到用户手机号码

HelloController.java

```
package com.controller;
import com.dao.SqlArray;
import com.file.FileUpload;
import com.logic.Login;
import com.url.Request;
import com.weixin.SignUp;
import org.springframework.http.*;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.*;

import com.google.gson.Gson;
//import net.sf.json.JSONObject;
import com.alibaba.fastjson.JSONObject;
import org.springframework.web.multipart.MultipartFile;
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpServletResponse;
import java.io.File;
import java.io.IOException;
import java.io.PrintWriter;
import java.util.*;
//使用Controller来标识它是一个控制器
@Controller
//@CrossOrigin
@RequestMapping(value = "/api")
public class HelloController {
   //全局变量
   public static String appid = "wxf58558547a7b352a";
    public static String secret = "c2ca1a3ee37256c970a0d6c4f4e475fc" ;
   //测试springmvc是否创建成功
   @RequestMapping(value = "/helloworld")
    public String Hello() {
       return "cs";
   }
   /* 测试链接
   * 请求: Get
   * 链接: 地址/api/cs
   * 参数: 无
   * 返回: json {"msg":"HelloWorld"}
    */
   @RequestMapping(value = "/cs")
    public @ResponseBody Map<String, String> cs() {
       Map<String, String> data = new HashMap<String, String>();
       data.put("msg","HelloWorld" );
       return data;
   }
    * 获取两张图片
    * 请求: Get
    * 链接: 地址/api/getpicture
    * 参数: 无
    * 返回: json
     * {
           "msg":"ok",
           "picture1":"/img/LostButtonPicture.png",
           "picture2":"/img/PickUpButtonPicture.png"
    * }
     */
```

```
@RequestMapping(value = "/getpicture")
    public @ResponseBody
   Map<String,String> getPicture() {
       Map<String, String> data = new HashMap<String, String>();
       data.put("msg","ok" );
       data.put("picture1","/img/LostButtonPicture.png");
       data.put("picture2","/img/PickUpButtonPicture.png");
        return data;
   }
   /* 注册
    * 请求: Get
    * 链接: 地址/api/register
    * 参数: 无
    * 返回: json {"msg":"HelloWorld"}
    */
   @RequestMapping(value = "/register", method = RequestMethod.POST)
    public @ResponseBody
   Map<String, String> register(HttpServletRequest request) {
        String code = request.getParameter("code");
       Map<String, String> data = new HashMap<String, String>();
       data.put("msg","ok" );
       return data;
   }
   /* 获取手机号码
    * 请求: POST
    * 链接: 地址/api/getphone
    *参数: 手机号码获取的code
    * 返回: json {"msg":"HelloWorld"}
    */
   @RequestMapping(value = "/getphone", method = RequestMethod.POST)
    public @ResponseBody Map<String,String> getPhone(HttpServletRequest
request) {
       Map<String, String> data = new HashMap<String, String>();
       try{
           //获取前端传过来的code
           String code = request.getParameter("code");
           System.out.println(code);
           //获取获取小程序全局唯一后台接口调用凭据(access_token)
           String getTokenUrl = "https://api.weixin.qq.com/cgi-bin/token?
grant_type=client_credential&appid="+appid+"&secret="+secret;
           String jsonStringa = Request.doGet(getTokenUrl);
           System.out.println(jsonStringa);
```

```
//String转JSON
            JSONObject jsonObject = JSONObject.parseObject(jsonStringa);
            String access_token = jsonObject.getString("access_token");
            //提交参数
            String getPhoneUrl =
"https://api.weixin.qq.com/wxa/business/getuserphonenumber?
access_token="+access_token;
            Map<String,Object> map = new HashMap<String,Object>();
            //map.put("access_token",access_token);
            map.put("code",code);
            JSONObject json = new JSONObject(map);
            System.out.println(map);
            System.out.println(json);
            String jsonStringb = Request.doPostForm(getPhoneUrl,json);
            System.out.println(jsonStringb);
            //String转JSON
            JSONObject jsonObject2 = JSONObject.parseObject(jsonStringb);
            HashMap hashMap =
JSONObject.parseObject(jsonObject2.toJSONString(), HashMap.class);
                                                                   //请求成功
            if( 0 == (int)hashMap.get("errcode") ){
                data.put("msg","ok" );
               JSONObject tmp2 = (JSONObject)hashMap.get("phone_info");
               data.put("phone",(String)tmp2.get("phoneNumber"));
           }else{
                data.put("msg","fail" );
               data.put("error",(int)hashMap.get("errcode")+"" );
            }
       }catch (Exception e){
            System.out.println(e);
            data.put("msg","fail" );
        }
        return data;
   }
   /* 登录
    * 请求: POST
    * 链接: 地址/api/login
    * 参数: 登录获取的code
    * 返回: json {"skey":""}
    */
   @RequestMapping(value = "/login", method = RequestMethod.POST)
    public @ResponseBody Map<String,String> login(HttpServletRequest request)
```

```
//获取前端传过来的code
       String code = request.getParameter("code");
       //Get请求(登录凭证校验)
       String getAuthUrl = "https://api.weixin.qq.com/sns/jscode2session?
appid="+appid+"&secret="+secret+"&js_code="+code+"&grant_type=authorization_c
ode";
       String jsonString = Request.doGet(getAuthUrl);
       System.out.println(jsonString);
       //String转JSON,再json转为map
       JSONObject jsonObject = JSONObject.parseObject(jsonString);
       HashMap hashMap = JSONObject.parseObject(jsonObject.toJSONString(),
HashMap.class);
       Map<String, String> data = new HashMap<String, String>();
       if( 0 == (int)hashMap.get("errcode") ){
                                                            //请求成功
           data.put("msg","ok" );
           //得到openid和session_key去生成3rd_session
           //这个生成3rd_session的方式自己决定即可,比如使用SHA或Base64算法都可以。
例如:将session_key或openid+session_key作为SHA或Base64算法的输入,输出结果做为
3rd_session来使用,同时要将openid, session_key, 3rd_session三者关联存储到数据库中,
方便下次拿3rd_session获取session_key或openid做其他处理。
           String openid = (String)hashMap.get("openid");
           String session_key = (String)hashMap.get("session_key");
           //uuid生成唯一
key(https://blog.csdn.net/weixin_38169886/article/details/99820453?
utm_medium=distribute.pc_relevant.none-task-blog-
2~default~baidujs_baidulandingword~default-
5.pc_relevant_default&spm=1001.2101.3001.4242.4&utm_relevant_index=8)
           String skey = UUID.randomUUID().toString();
           //判断是否注册过
           boolean tmp = Login.checkUser(openid);
                                         //没有注册过
           if( tmp == false ){
               Login.register(openid, skey);
               data.put("msg","ok" );
               data.put("skey", skey);
                                          //注册过,更新新的skey
           }else{
               Login.updateskey(openid, skey);
               data.put("skey", skey);
           }
       }else{
           data.put("msg","fail" );
           data.put("error",(int)hashMap.get("errcode")+"" );
       return data:
```

```
//失主提交页面
   /*
      HTTP请求: POST
      请求链接: 地址/api/ownerEnrol
       参数: 7
          category_value 失物类别
          LostTime 丢失时间
           LostPosition 丢失地点
          LostPerson 联系人
           LostTelNumber 联系方式
           LostThingsPicture 失物照片
          LostMessage 备注
       返回JSON
          提交成功
          {
              "msg":"ok"
          提交失败
             "msg":"fail",
             "error":错误原因
          }
   */
   //失主
   @RequestMapping(value = "/ownerEnrol", method = RequestMethod.POST)
   public @ResponseBody Map<String, String> Enrol(@RequestParam(value =
"LostThingsPicture", required = false) MultipartFile[] LostThingsPicture,
HttpServletResponse response, HttpServletRequest request) throws IOException
       Map<String, String> data = new HashMap<String, String>();
       try {
          /*
          category_value 失物类别
          LostTime 丢失时间
           LostPosition 丢失地点
           LostPerson 联系人
           LostTelNumber 联系方式
           LostThingsPicture 失物照片
           LostMessage 备注
           * */
           String category_value = request.getParameter("category_value");
           String LostTime = request.getParameter("LostTime");
           String LostPosition = request.getParameter("LostPosition");
           String LostPerson = request.getParameter("LostPerson");
           String LostTelNumber = request.getParameter("LostTelNumber");
           String LostMessage = request.getParameter("LostMessage");
```

```
if ( category_value == null
                                                    || LostTime == null || LostTelNumber == null ||
LostMessage == null
                                                     || "".equals(category_value) || "".equals(LostTime) ||
"".equals(LostTelNumber) || "".equals(LostMessage) ) {
                                          data.put("msg", "fail");
                                          data.put("error", "失物类型,失物丢失时间,失物情况,联系方式为必填项且
不能为空");
                                          throw new NullPointerException("xx"); //抛出异常
                                }
                                  System.out.println("总共有"+LostThingsPicture.length+"个文件");
                                // 文件上传到服务器的位置"/files"
                                System.out.println("正在上传文件");
                                List<String> fileList = new ArrayList<>(); //全部的数组
                                for( MultipartFile f:LostThingsPicture) {
                                          String filelocation = FileUpload.SaveServer(f,request);
                                          if( filelocation != null ){
                                                     fileList.add(filelocation);
                                          }else{
                                                     data.put("msg","fail");
                                                     data.put("error","文件上传失败");
                                                     return data;
                                          }
                                }
                                //合并
                                String all_file = SqlArray.Merge(fileList); //全部的
                                System.out.println(all_file);
                                //进行登记
                                if
(SignUp.Enrol(category\_value, LostTime, LostPosition, LostPerson, LostTelNumber, a lostPosition, LostPerson, LostTelNumber, a lostPosition, LostPerson, LostTelNumber, a lostPosition, LostPerson, L
ll_file,LostMessage,"owner")) {
                                          data.put("msg", "ok");
                                }else{
                                          data.put("msg","fail");
                                          data.put("error","写入数据库失败");
                     }catch (Exception e){
                                e.printStackTrace();
                     return data;
          }
```

```
//拾主提交页面
   /*
      HTTP请求: POST
       请求链接: 地址/api/pickerEnrol
       参数: 7
          category_value 失物类别
          LostTime 丢失时间
          LostPosition 丢失地点
          LostPerson 联系人
          LostTelNumber 联系方式
          LostThingsPicture 失物照片
          LostMessage 备注
       返回JSON
          提交成功
          {
              "msg":"ok"
          }
          提交失败
             "msg":"fail",
             "error":错误原因
          }
   */
   //拾主
   @RequestMapping(value = "/pickerEnrol", method = RequestMethod.POST)
   public @ResponseBody Map<String,String> pickerEnrol(@RequestParam(value =
"LostThingsPicture",required = false) MultipartFile[] LostThingsPicture,
HttpServletResponse response, HttpServletRequest request) throws IOException
{
       Map<String, String> data = new HashMap<String, String>();
       try {
          /*
          category_value 失物类别
          LostTime 丢失时间
          LostPosition 丢失地点
          LostPerson 联系人
          LostTelNumber 联系方式
          LostThingsPicture 失物照片
          LostMessage 备注
          * */
          String category_value = request.getParameter("category_value");
          String LostTime = request.getParameter("LostTime");
          String LostPosition = request.getParameter("LostPosition");
          String LostPerson = request.getParameter("LostPerson");
          String LostTelNumber = request.getParameter("LostTelNumber");
          String LostMessage = request.getParameter("LostMessage");
```

```
if ( category_value == null
                   || LostTime == null || LostTelNumber == null ||
LostMessage == null
                   || "".equals(category_value) || "".equals(LostTime) ||
"".equals(LostTelNumber) || "".equals(LostMessage) ) {
               data.put("msg", "fail");
               data.put("error", "失物类型,失物丢失时间,失物情况,联系方式为必填项且
不能为空");
               throw new NullPointerException("xx");
                                                         //抛出异常
           }
           System.out.println("总共有"+LostThingsPicture.length+"个文件");
           // 文件上传到服务器的位置"/files"
           System.out.println("正在上传文件");
           List<String> fileList = new ArrayList<>();
                                                             //全部的数组
           for( MultipartFile f:LostThingsPicture) {
               String filelocation = FileUpload.SaveServer(f,request);
               if( filelocation != null ){
                   fileList.add(filelocation);
               }else{
                   data.put("msg","fail");
                   data.put("error","文件上传失败");
                   return data;
              }
           }
           //合并
           String all_file = SqlArray.Merge(fileList); //全部的
           System.out.println(all_file);
           //进行登记
           if
(SignUp.Enrol(category_value,LostTime,LostPosition,LostPerson,LostTelNumber,a
ll_file,LostMessage,"picker")) {
               data.put("msg", "ok");
           }else{
               data.put("msg","fail");
               data.put("error","写入数据库失败");
       }catch (Exception e){
           e.printStackTrace();
       return data;
   }
   //显示数据
   /*
```

```
HTTP请求: POST
       请求链接: 地址/api/showdata
       参数:
             page(字符串)
       返回JSON
           获取成功
           {
               "msg":"ok",
               "num":"总数量"
               "data":{
                   (数组类型的数据)
           }
           获取失败
              "msg":"fail",
              "num":"总数量",
              "error":错误原因
           }
   */
   @RequestMapping(value = "/showdata", method = RequestMethod.POST)
   public @ResponseBody Map<String,Object> showData(HttpServletResponse
response, HttpServletRequest request) throws IOException {
       Map<String, Object> data = new HashMap<String, Object>();
       try {
           int num = SignUp.queryNum();
           String page = request.getParameter("page");
           List list = SignUp.signupList(Integer.parseInt(page),10);
//每页显示10条数据
           data.put("num",""+num);
           if( list == null ){
               data.put("msg","fail");
               data.put("error","当前页面已经无数据");
           }else{
               data.put("msg","ok");
               data.put("data",list);
           }
       }catch (Exception e){
           e.printStackTrace();
       return data;
   }
   //显示搜索数据
   /*
      HTTP请求: POST
       请求链接: 地址/api/search
       参数:
                         页数
                                  必填
           page
```

```
必填
           search
                                   非必填
           category_value
                                   非必填
           begintime
                                   非必填
           endtime
       返回JSON
           获取成功
           {
               "msg":"ok",
               "data":{
                    (数组类型的数据)
           }
           获取失败
              "msg":"fail",
              "error":错误原因
           }
   */
   @RequestMapping(value = "/search", method = RequestMethod.POST)
   public @ResponseBody Map<String,Object> search(HttpServletResponse
response, HttpServletRequest request) throws IOException {
       Map<String, Object> data = new HashMap<String, Object>();
       try {
           int num = SignUp.queryNum();
           String page = request.getParameter("page");
           String search = request.getParameter("search");
           String category_value = request.getParameter("category_value");
           String begintime = request.getParameter("begintime");
           String endtime = request.getParameter("endtime");
           if( page == null || "".equals(page) || search == null ||
"".equals(search) ){
               data.put("msg","fail");
               data.put("error","page和search为必填项");
               return data:
           }
           List list =
SignUp.searchList(Integer.parseInt(page),10,category_value,begintime,endtime,
            //每页显示10条数据
search);
           if( list == null ){
               data.put("msg","fail");
               data.put("error","当前页面已经无数据");
           }else{
               data.put("msg","ok");
               System.out.println(list.toString());
               data.put("data",list);
       }catch (Exception e){
```

```
e.printStackTrace();
}
return data;
}
```

Dao.java

```
package com.dao;
import java.sql.*;
public class Dao {
   // 获取数据库连接
   //scnu_wechat scnu_wechat YJ8DhK5miHaYsx44
   public static Connection getConnection(){
       Connection conn = null;
       String url = "jdbc:mysql://***:3306/****";
       try {
           Class.forName("com.mysql.cj.jdbc.Driver");
           //Class.forName("com.mysql.jdbc.Driver");
           //数据库名字和密码在这里改!!!!
           conn = DriverManager.getConnection(url, "****", "****");
       } catch (ClassNotFoundException e) {
           e.printStackTrace();
           System.out.println("数据库驱动加载出错");
       } catch (SQLException e) {
           e.printStackTrace();
           System.out.println("数据库出错");
       return conn;
   //关闭相关通道
   public static void close(ResultSet rs,PreparedStatement p,Connection
conn)
       try
       {
           if(!rs.isClosed()){
              rs.close();
           if(!p.isClosed()){
               p.close();
```

```
if(!conn.isClosed()){
                conn.close();
            }
        }
        catch(SQLException e)
            e.printStackTrace();
            System.out.println("数据关闭出错");
    }
    //关闭相关通道
    public static void close(PreparedStatement p,Connection conn)
        try
        {
            if(!p.isClosed()){
                p.close();
            if(!conn.isClosed()){
               conn.close();
        }
        catch(SQLException e)
        {
            e.printStackTrace();
            System.out.println("数据关闭出错");
   }
}
```

SqlArray.java

```
package com.dao;
import java.util.ArrayList;
import java.util.List;

public class SqlArray {
    /*
    * 存储数组进数据库
    * 数据库用一个字段表示数组,字段类型为文本类型。
    * 程序存入数组到数据库的时候,利用join方法把数组转换为分隔符分隔的字符串,比如你的例子数组a[1]="第一步";a[2]="第二步";合并后为"第一步|第二步",把这个合并后的字符串存入数据
```

库你是会的。

```
* 从数据库里面取出合并后的字符串"第一步|第二步"以后,利用split方法可以转换为数组。
* 这个方法的最大的优点是可以保存个数不确定的数组,程序编写相当简单。
* */
//合并
public static String Merge(String[] nameArr){
    String nameAll = "";
    for( int i = 0 ; i < nameArr.length ; i++ ){</pre>
        nameAll += (nameArr[i] + "|");
        if( i == nameArr.length - 1) {
            nameAll += nameArr[i];
       }
    return nameAll;
}
//合并
public static String Merge(List nameArr){
    if( nameArr.size() == 1 )     return String.valueOf(nameArr.get(0));
    String nameAll = "";
    for( int i = 0 ; i < nameArr.size() ; i++ ){</pre>
        nameAll += String.valueOf((nameArr.get(i) + "|"));
       if( i == nameArr.size() - 1){
            nameAll += String.valueOf(nameArr.get(i));
        }
    }
    return nameAll;
}
//分离(数组形式)
public static String[] SeparationArray(String nameAll){
    String[] nameArr = nameAll.split("\\|");
    return nameArr;
}
//分离(列表形式)
public static List SeparationList(String nameAll) {
    String[] nameArr = nameAll.split("\\|");
    List list = new ArrayList();
    for(String name:nameArr){
       list.add(name);
    return list;
}
```

FileUpload.java

```
package com.file;
import org.springframework.web.multipart.MultipartFile;
import javax.servlet.http.HttpServletRequest;
import java.io.File;
import java.util.UUID;
public class FileUpload {
   //避免重命名
   public static String getUuidFileName(String fileName) {
       //文件名以: uuid+"_"+文件的原始名称
       return UUID.randomUUID().toString()+ "_" +fileName;
   }
   //获取本来的名字
   //保存到服务器
   //返回位置
   public static String SaveServer(MultipartFile file, HttpServletRequest
request){
       System.out.println("正在上传文件");
       //得到上传文件的保存目录,将上传的文件存放于WEB-INF目录下,不允许外界直接访问,
保证上传文件的安全
       //String realpath = request.getServletContext().getRealPath("/WEB-
INF/files");
       //暂时就不保存在WEB-INF那里, 先放在files
       String realpath = request.getServletContext().getRealPath("files");
       //获取文件名字
       String fileName = getUuidFileName(file.getOriginalFilename());
       //文件上传
       File targetFile = new File(realpath, fileName);
       //如果不存在, 创建文件
       if (!targetFile.exists()) {
           targetFile.mkdirs();
       // 上传
       try {
           file.transferTo(targetFile);
```

CrossFilter.java

```
package com.filter;
import com.alibaba.fastjson.JSONObject;
import com.logic.Login;
import java.io.IOException;
import java io PrintWriter;
import javax.servlet.Filter;
import javax.servlet.FilterChain;
import javax.servlet.FilterConfig;
import javax.servlet.ServletException;
import javax.servlet.ServletRequest;
import javax.servlet.ServletResponse;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
// https://blog.csdn.net/qq_32363305/article/details/82469451
public class CrossFilter implements Filter{
   @Override
    public void doFilter(ServletRequest req, ServletResponse res, FilterChain
chain)
            throws IOException, ServletException {
       HttpServletRequest request = (HttpServletRequest) req;
       HttpServletResponse response = (HttpServletResponse) res;
        response.addHeader("Access-Control-Allow-Origin",
request.getHeader("Origin"));
        response.addHeader("Access-Control-Allow-Methods", "POST, GET,
OPTIONS, PUT, DELETE, HEAD");
        response.addHeader("Access-Control-Max-Age", "2700000");
        response.addHeader("Access-Control-Allow-Headers", "X-PINGOTHER,
```

```
Origin, X-Requested-With, Content-Type, Accept, Cookie");
       response.addHeader("Access-Control-Allow-Credentials", "true");
       //获取请求时的sessionId
       String skey = request.getHeader("skey");
       if( skey == null || "".equals(skey) ){ //如果没有说明不需要登录的权
限
           //该请求不需要验证session,直接通过
           System.out.println("该请求不需要过滤,通过");
           chain.doFilter(request, response);
           return;
       }else{
           //只有在缓存中存在该sessionId才能进行请求
           if ( Login.checkskey(skey) == false ) {
              // 登录信息已过期,请重新登录
               System.out.println("登录信息失效,请重新登录");
               //response.getWriter().write("登录信息失效,请重新登录");
               response.setCharacterEncoding("UTF-8");
               response.setContentType("application/json; charset=utf-8");
               PrintWriter out = response.getWriter();
               JSONObject tmp = new JSONObject();
               tmp.put("msg", "fail");
               tmp.put("error", "登录信息失效, 请重新登录");
              out.append(tmp.toString());
               return;
           System.out.println("session验证成功");
           chain.doFilter(request, response);
   }
   @Override
   public void init(FilterConfig filterConfig) throws ServletException {
       //system.out.println("开始初始化");
   }
   @Override
   public void destroy() {
       // system.out.println("销毁完成");
}
```

Login.java

```
package com.logic;
```

```
import com.dao.Dao;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
public class Login {
   //检测是否有该账户,有则返回真,没有则返回假
    public static boolean checkUser(String username) {
       try {
           Connection conn = Dao.getConnection();
                                                             //连接数据库
           PreparedStatement p = conn.prepareStatement("select * from
user_data where open_id=?;"); //查询
           p.setString(1, username);
           ResultSet rs = p.executeQuery();
           if(rs.next()){
               String user_name = rs.getString("open_id");
               Dao.close(rs, p, conn);
               return true;
           }
           Dao.close(rs, p, conn);
       } catch (Exception e) {
           e.printStackTrace();
       return false;
   }
   //检测是否有该账户,有则返回真,没有则返回假
    public static boolean checkskey(String skey) {
       try {
           Connection conn = Dao.getConnection();
                                                             //连接数据库
           PreparedStatement p = conn.prepareStatement("select * from
user_data where skey=?;"); //查询
           p.setString(1, skey);
           ResultSet rs = p.executeQuery();
           if(rs.next()){
               String user_name = rs.getString("skey");
               Dao.close(rs, p, conn);
               return true;
           Dao.close(rs, p, conn);
       } catch (Exception e) {
           e.printStackTrace();
       return false;
```

```
//注册
   public static boolean register(String open_id,String skey){
      //ticket就是准考证号,准考证号就是登录名
       册
          try {
              Connection conn = Dao.getConnection();
              /* 对账户密码的数据库进行补充 */
              PreparedStatement p = conn.prepareStatement("insert into
user_data(open_id,skey) VALUES (?,?);");
             //对占位符进行补充
              p.setString(1, open_id);
              p.setString(2, skey);
              p.executeUpdate();
              System.out.println("注册成功");
              Dao.close(p, conn);
              return true:
          } catch (Exception e) {
              e.printStackTrace();
          }
      }else{
          System.out.println("该账户已经注册过,请不要重复注册!");
          return false;
      return false;
   }
   //更新skey
   public static boolean updateskey(String open_id, String newskey) {
      try {
          Connection conn = Dao.getConnection();
                                                        //连接数据库
          PreparedStatement p = conn.prepareStatement("update user_data set
skey=? where open_id=?;");
          p.setString(1,newskey);
          p.setString(2,open_id);
                             //执行SOL语句(注意这里是execute,因为进
          p.executeUpdate();
行的是修改操作)
          Dao.close(p, conn);
          return true;
      } catch (Exception e) {
          e.printStackTrace();
       return false;
   }
```

Request.java

```
package com.url;
import com.alibaba.fastjson.JSONObject;
import com.google.gson.Gson;
import com.google.gson.Gson;
import java.io.*;
import java.net.HttpURLConnection;
import java.net.MalformedURLException;
import java.net.URL;
import java.net.URLConnection;
import java.text.ParseException;
import java.util.*;
//https://www.cnblogs.com/mufengforward/p/10510337.html
public class Request {
   /**
    * 向指定URL发送GET方法的请求
    * @param httpurl
                请求参数用?拼接在url后边,请求参数应该是
name1=value1&name2=value2 的形式。
    * @return result 所代表远程资源的响应结果
    */
   public static String doGet(String httpurl) {
       HttpURLConnection connection = null;
       InputStream is = null;
       BufferedReader br = null;
       String result = null;// 返回结果字符串
       try {
           // 创建远程url连接对象
           URL url = new URL(httpurl);
           // 通过远程url连接对象打开一个连接,强转成httpURLConnection类
           connection = (HttpURLConnection) url.openConnection();
           // 设置连接方式: get
           connection.setRequestMethod("GET");
           // 设置连接主机服务器的超时时间: 15000毫秒
           connection.setConnectTimeout(15000);
           // 设置读取远程返回的数据时间: 60000毫秒
           connection.setReadTimeout(60000);
```

```
// 发送请求
        connection.connect();
        // 通过connection连接,获取输入流
       if (connection.getResponseCode() == 200) {
           is = connection.getInputStream();
           // 封装输入流is,并指定字符集
           br = new BufferedReader(new InputStreamReader(is, "UTF-8"));
           // 存放数据
           StringBuffer sbf = new StringBuffer();
           String temp = null;
           while ((temp = br.readLine()) != null) {
               sbf.append(temp);
               sbf.append("\r\n");
           result = sbf.toString();
   } catch (MalformedURLException e) {
        e.printStackTrace();
    } catch (IOException e) {
        e.printStackTrace();
   } finally {
       // 关闭资源
       if (null != br) {
           try {
               br.close();
           } catch (IOException e) {
               e.printStackTrace();
       }
       if (null != is) {
           try {
               is.close();
           } catch (IOException e) {
               e.printStackTrace();
           }
       }
       connection.disconnect();// 关闭远程连接
   }
   return result;
}
/**
 * @param httpUrl 请求的url
 * @param param form表单的参数 (key,value形式)
```

```
* @return
    */
   public static String doPostForm(String httpUrl, Map param) {
       HttpURLConnection connection = null;
       InputStream is = null;
       OutputStream os = null;
       BufferedReader br = null;
       String result = null;
       try {
          URL url = new URL(httpUrl);
          // 通过远程url连接对象打开连接
          connection = (HttpURLConnection) url.openConnection();
          // 设置连接请求方式
          connection.setRequestMethod("POST");
          // 设置连接主机服务器超时时间: 15000毫秒
          connection.setConnectTimeout(15000);
          // 设置读取主机服务器返回数据超时时间: 60000毫秒
          connection.setReadTimeout(60000);
          // 默认值为: false, 当向远程服务器传送数据/写数据时, 需要设置为true
          connection.setDoOutput(true);
          // 默认值为: true, 当前向远程服务读取数据时,设置为true, 该参数可有可无
          connection.setDoInput(true);
          // 设置传入参数的格式:请求参数应该是 name1=value1&name2=value2 的形式。
          connection.setRequestProperty("Content-Type",
"application/json");
          // 设置鉴权信息: Authorization: Bearer da3efcbf-0845-4fe3-8aba-
ee040be542c0
          //connection.setRequestProperty("Authorization", "Bearer
da3efcbf-0845-4fe3-8aba-ee040be542c0");
          // 通过连接对象获取一个输出流
          os = connection.getOutputStream();
          // 通过输出流对象将参数写出去/传输出去,它是通过字节数组写出的(form表单形式
的参数实质也是key,value值的拼接,类似于get请求参数的拼接)
          JSONObject json = new JSONObject(param);
          os.write( createLinkString(param).getBytes() );
          // 通过连接对象获取一个输入流,向远程读取
          if (connection.getResponseCode() == 200) {
              is = connection.getInputStream();
              // 对输入流对象进行包装:charset根据工作项目组的要求来设置
              br = new BufferedReader(new InputStreamReader(is, "UTF-8"));
              StringBuffer sbf = new StringBuffer();
              String temp = null;
              // 循环遍历一行一行读取数据
              while ((temp = br.readLine()) != null) {
```

```
sbf.append(temp);
               sbf.append("\r\n");
            result = sbf.toString();
    } catch (MalformedURLException e) {
        e.printStackTrace();
   } catch (IOException e) {
        e.printStackTrace();
   } finally {
       // 关闭资源
       if (null != br) {
           try {
               br.close();
           } catch (IOException e) {
               e.printStackTrace();
           }
       if (null != os) {
           try {
               os.close();
           } catch (IOException e) {
               e.printStackTrace();
           }
       }
       if (null != is) {
           try {
               is.close();
           } catch (IOException e) {
               e.printStackTrace();
           }
       }
       // 断开与远程地址url的连接
       connection.disconnect();
   return result;
}
public static String doPostForm(String httpUrl, JSONObject param) {
   HttpURLConnection connection = null;
    InputStream is = null;
    OutputStream os = null;
    BufferedReader br = null;
    String result = null;
   try {
       URL url = new URL(httpUrl);
        // 通过远程url连接对象打开连接
```

```
connection = (HttpURLConnection) url.openConnection();
          // 设置连接请求方式
          connection.setRequestMethod("POST");
          // 设置连接主机服务器超时时间: 15000毫秒
          connection.setConnectTimeout(15000);
          // 设置读取主机服务器返回数据超时时间: 60000毫秒
          connection.setReadTimeout(60000);
          // 默认值为: false, 当向远程服务器传送数据/写数据时, 需要设置为true
          connection.setDoOutput(true);
          // 默认值为: true, 当前向远程服务读取数据时,设置为true, 该参数可有可无
          connection.setDoInput(true);
          // 设置传入参数的格式:请求参数应该是 name1=value1&name2=value2 的形式。
          connection.setRequestProperty("Content-Type",
"application/json");
          // 设置鉴权信息: Authorization: Bearer da3efcbf-0845-4fe3-8aba-
ee040be542c0
          //connection.setRequestProperty("Authorization", "Bearer
da3efcbf-0845-4fe3-8aba-ee040be542c0");
          // 通过连接对象获取一个输出流
          os = connection.getOutputStream();
          // 通过输出流对象将参数写出去/传输出去,它是通过字节数组写出的(form表单形式
的参数实质也是key,value值的拼接,类似于get请求参数的拼接)
          os.write( param.toString().getBytes() );
          // 通过连接对象获取一个输入流,向远程读取
          if (connection.getResponseCode() == 200) {
              is = connection.getInputStream();
              // 对输入流对象进行包装:charset根据工作项目组的要求来设置
              br = new BufferedReader(new InputStreamReader(is, "UTF-8"));
              StringBuffer sbf = new StringBuffer();
              String temp = null;
              // 循环遍历一行一行读取数据
              while ((temp = br.readLine()) != null) {
                  sbf.append(temp);
                  sbf.append("\r\n");
              result = sbf.toString();
       } catch (MalformedURLException e) {
          e.printStackTrace();
       } catch (IOException e) {
          e.printStackTrace();
       } finally {
          // 关闭资源
          if (null != br) {
```

```
try {
               br.close();
           } catch (IOException e) {
               e.printStackTrace();
           }
       }
       if (null != os) {
           try {
               os.close();
           } catch (IOException e) {
               e.printStackTrace();
           }
       }
       if (null != is) {
           try {
               is.close();
           } catch (IOException e) {
               e.printStackTrace();
       }
       // 断开与远程地址url的连接
       connection.disconnect();
   return result;
}
/**
* 把数组所有元素排序,并按照"参数=参数值"的模式用"&"字符拼接成字符串
* @param params 需要排序并参与字符拼接的参数组
* @return 拼接后字符串
*/
public static String createLinkString(Map<String, String> params) {
   List<String> keys = new ArrayList<String>(params.keySet());
   Collections.sort(keys);
   StringBuilder prestr = new StringBuilder();
    for (int i = 0; i < keys.size(); i++) {</pre>
       String key = keys.get(i);
       String value = params.get(key);
       if (i == keys.size() - 1) {// 拼接时,不包括最后一个&字符
           prestr.append(key).append("=").append(value);
       } else {
           prestr.append(key).append("=").append(value).append("&");
       }
```

```
return prestr.toString();
}

//String 转 Map

public static Map<String,Object> strToJson(String jsonString) {
    Gson gson = new Gson();
    Map<String, Object> map = new HashMap<String, Object>();
    map = gson.fromJson(jsonString, map.getClass());
    return map;
}
```

SignUp.java

```
package com.weixin;
import com.dao.Dao;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.text.SimpleDateFormat;
import java.util.*;
public class SignUp {
   /*
       category_value 失物类别
       LostTime 丢失时间
       LostPosition 丢失地点
       LostPerson 联系人
       LostTelNumber 联系方式
       LostThingsPicture 失物照片
       LostMessage 备注
   */
   //create table data_enrol(category_value char(50),LostTime
char(100),LostPosition char(100),LostPerson char(50),LostTelNumber
char(50),LostThingsPicture longtext,LostMessage longtext,model char(10));
   public static boolean Enrol(String category_value, String LostTime,
String LostPosition, String LostPerson, String LostTelNumber, String
LostThingsPicture,String LostMessage,String model) {
       //ticket就是准考证号,准考证号就是登录名
```

```
try {
           Connection conn = Dao.getConnection();
           /* 对报名的数据库进行补充 */
           PreparedStatement p = conn.prepareStatement("insert into
data_enrol(category_value,LostTime,LostPosition,LostPerson,LostTelNumber,Lost
ThingsPicture, LostMessage, model) VALUES (?,?,?,?,?,?,?);");
           //对占位符进行补充
           p.setString(1, category_value);
           p.setString(2, LostTime);
           p.setString(3, LostPosition);
           p.setString(4, LostPerson);
           p.setString(5, LostTelNumber);
           p.setString(6, LostThingsPicture);
           p.setString(7, LostMessage);
           p.setString(8, model);
           System.out.println(p);
           p.executeUpdate();
           System.out.println("登记成功");
           Dao.close(p, conn);
           return true;
       } catch (Exception e) {
           System.out.println("登记失败");
           e.printStackTrace();
           return false;
       }
   }
   //查询总的数目
    public static int queryNum(){
       int res = 0;
       try {
           Connection conn = Dao.getConnection();
                                                              //连接数据库
           PreparedStatement p = conn.prepareStatement("select count(*) from
                   //查看报名的人数
data_enrol;");
           ResultSet rs = p.executeQuery();
           if(rs.next()){
               res = rs.getInt(1);
               Dao.close(rs, p, conn);
               return res;
           Dao.close(rs, p, conn);
       } catch (Exception e) {
           e.printStackTrace();
       return res;
   }
   //返回全部报名人及信息
```

```
public static List signupList(){
       int sign = 0; //标记一下当前页数是否有数据
       //参考链接:
https://blog.csdn.net/weixin_28779183/article/details/117810091
       List list = new ArrayList();
       int res = 0;
       try {
           Connection conn = Dao.getConnection();
                                                              //连接数据库
           PreparedStatement p = conn.prepareStatement("select * from
data_enrol;");
                    //查看报名信息
           ResultSet rs = p.executeQuery();
           while(rs.next()){
               sign = 1;
               //category_value char(50),LostTime char(100),LostPosition
char(100), LostPerson char(50), LostTelNumber char(50), LostThingsPicture
longtext,LostMessage longtext,model char(10));
               Map<String, String> data = new HashMap();
               data.put("category_value", rs.getString("category_value"));
               data.put("LostTime", rs.getString("LostTime"));
               data.put("LostPosition", rs.getString("LostPosition"));
               data.put("LostPerson", rs.getString("LostPerson"));
               data.put("LostTelNumber", rs.getString("LostTelNumber"));
               data.put("LostThingsPicture",
rs.getString("LostThingsPicture"));
               data.put("LostMessage", rs.getString("LostMessage"));
               if( "picker".equals(rs.getString("model")) ){ //说明是拾物
                   data.put("model","拾物");
               }else{
                   data.put("model","失物");
               list.add(data);
           Dao.close(rs, p, conn);
       } catch (Exception e) {
           e.printStackTrace();
       if( sign == 1 ){
           return list;
       }else{
           return null;
   }
   //返回部分报名人及信息
   public static List signupList(int page,int limit){
```

```
//标记一下当前页数是否有数据
       int sign = 0;
       //参考链接:
https://blog.csdn.net/weixin_28779183/article/details/117810091
       List list = new ArrayList();
       int res = 0;
       try {
           Connection conn = Dao.getConnection();
                                                              //连接数据库
           // page 页码 limit 每页数量
           // select * from TABLE_NAME where ... order by ... limit (page
-1) * limit, limit
           PreparedStatement p = conn.prepareStatement("select * from
data_enrol limit ?,?;");
                             //查看报名信息
           p.setInt(1,(page -1) * limit);
           p.setInt(2, limit);
           ResultSet rs = p.executeQuery();
           while(rs.next()){
               sign = 1;
               Map<String,String> data = new HashMap();
               data.put("category_value", rs.getString("category_value"));
               data.put("LostTime", rs.getString("LostTime"));
               data.put("LostPosition", rs.getString("LostPosition"));
               data.put("LostPerson", rs.getString("LostPerson"));
               data.put("LostTelNumber", rs.getString("LostTelNumber"));
               data.put("LostThingsPicture",
rs.getString("LostThingsPicture"));
               data.put("LostMessage", rs.getString("LostMessage"));
               if( "picker".equals(rs.getString("model")) ){ //说明是拾物
                   data.put("model","拾物");
               }else{
                   data.put("model","失物");
               list.add(data);
           Dao.close(rs, p, conn);
       } catch (Exception e) {
           e.printStackTrace();
       //System.out.println(list);
       if( sign == 1 ){
           return list;
       }else{
           return null;
       }
```

}

```
//进行查询返回部分报名人及信息
   public static List searchList(int page,int limit,String
category_value,String begintime,String endtime,String find){
       int sign = 0;
                            //标记一下当前页数是否有数据
       //limit ?,?;
       String sql = "select * from data_enrol";
       if( category_value != null && !"".equals(category_value)){
//说明有筛选类别
           sql += (" where category_value='" + category_value+"'");
           if( find != null && !"".equals(find)){
              sql += (" and (LostPosition like '%"+ find +"%' or
LostMessage like '%" + find+"%')");
          }
       }else{
           if( find != null && !"".equals(find)){
              sql += (" where LostPosition like '%"+ find +"%' or
LostMessage like '%" + find+"%'");
       }
       sql += " limit ?,?;";
       //参考链接:
https://blog.csdn.net/weixin_28779183/article/details/117810091
       List list = new ArrayList();
       int res = 0;
       try {
           Connection conn = Dao.getConnection();
                                                          //连接数据库
           // page 页码 limit 每页数量
           // select * from TABLE_NAME where ... order by ... limit (page
-1) * limit, limit
           信息
           p.setInt(1,(page -1) * limit);
           p.setInt(2, limit);
           System.out.println(p);
           ResultSet rs = p.executeQuery();
           //从前端或者自己模拟一个日期格式,转为String即可
           SimpleDateFormat format = new SimpleDateFormat("yyyy-MM-dd");
           //将字符串日期转为日期
           Date datebegin = null, dateend = null;
           int time = 0;
           if( begintime != null && !"".equals(begintime) && endtime != null
&& !"".equals(endtime)){
              datebegin = format.parse(begintime);
```

```
dateend = format.parse(endtime);
                time = 1;
            while(rs.next()){
                Map<String, String> data = new HashMap();
                Date when = format.parse(rs.getString("LostTime"));
                if( time == 1){
                    if(!(when.after(datebegin) && when.before(dateend)) ){
                        continue;
                    }
                }
                sign = 1;
                data.put("category_value", rs.getString("category_value"));
                data.put("LostTime", rs.getString("LostTime"));
                data.put("LostPosition", rs.getString("LostPosition"));
                data.put("LostPerson", rs.getString("LostPerson"));
                data.put("LostTelNumber", rs.getString("LostTelNumber"));
                data.put("LostThingsPicture",
rs.getString("LostThingsPicture"));
                data.put("LostMessage", rs.getString("LostMessage"));
                if( "picker".equals(rs.getString("model")) ){ //说明是拾物
                    data.put("model","拾物");
                }else{
                    data.put("model","失物");
                list.add(data);
            Dao.close(rs, p, conn);
        } catch (Exception e) {
            e.printStackTrace();
        }
        //System.out.println(list);
        if( sign == 1 ){
            return list;
        }else{
            return null;
   }
}
```

dispatcher-servlet.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:context="http://www.springframework.org/schema/context"
      xmlns:mvc="http://www.springframework.org/schema/mvc"
      xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans-4.2.xsd
http://www.springframework.org/schema/mvc
http://www.springframework.org/schema/mvc/spring-mvc-4.2.xsd
http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context-4.2.xsd">
   <!--dispatcher-servlet.xml文件,这个文件主要用来配置HandlerMapping-->
   <!-- 配置自动扫描的包 -->
   <context:component-scan base-package="com.controller">
</context:component-scan>
   <!-- 静态资源(js、image等)的访问 -->
   <mvc:default-servlet-handler/>
   <!-- 开启注解 -->
   <mvc:annotation-driven/>
           Handlermapper和HandlerAdapter-->
   <!--<bean class="com.test.controller.WelcomeController"></bean>-->
   <!-- 配置视图解析器 如何把handler 方法返回值解析为实际的物理视图 -->
   <bean
class="org.springframework.web.servlet.view.InternalResourceViewResolver">
       property name="viewClass"
value="org.springframework.web.servlet.view.JstlView"/>
       cycle = "prefix" value="/WEB-INF/views/">
       cproperty name = "suffix" value = ".jsp"></property>
   <!-- 配置MultipartResolver,用于上传文件,使用spring的
CommonsMultipartResolver -->
   <bean id="multipartResolver"</pre>
```

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="https://jakarta.ee/xml/ns/jakartaee"</pre>
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xsi:schemaLocation="https://jakarta.ee/xml/ns/jakartaee
https://jakarta.ee/xml/ns/jakartaee/web-app_5_0.xsd"
        version="5.0">
    <context-param> <param-name>contextConfigLocation</param-name>
        <param-value>/WEB-INF/applicationContext.xml</param-value>
    </context-param> <listener> <listener-
class>org.springframework.web.context.ContextLoaderListener</listener-class>
</listener>
   <filter>
        <filter-name>crossFilter</filter-name>
        <filter-class>com.filter.CrossFilter</filter-class>
    </filter>
    <filter-mapping>
        <filter-name>crossFilter</filter-name>
        <url-pattern>/*</url-pattern>
   </filter-mapping>
   <!--web.xml是用来启动DispatcherServlet -->
    <servlet>
        <!--这里写成对应名字-->
        <servlet-name>dispatcher</servlet-name>
        <servlet-
class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
        <!-- 启动顺序,数字越小,启动越早 -->
        <load-on-startup>1</load-on-startup>
    </servlet>
    <!--所有请求都会被dispatcher拦截 -->
    <servlet-mapping>
        <servlet-name>dispatcher</servlet-name>
        <url-pattern>/</url-pattern>
    </servlet-mapping>
```

(2022.3.27)

测试接口版0.1

项目结构

当前功能:

- 1.返回两张图片
- 2.得到用户手机号码

HelloController.java

```
package com.controller;

import com.url.Request;
import org.springframework.http.*;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.ResponseBody;
import com.google.gson.Gson;
```

```
//import net.sf.json.JSONObject;
import com.alibaba.fastjson.JSONObject;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
import java.util.HashMap;
import java.util.Map;
//使用Controller来标识它是一个控制器
@Controller
//@CrossOrigin
@RequestMapping(value = "/api")
public class HelloController {
    //测试springmvc是否创建成功
   @RequestMapping(value = "/helloworld")
    public String Hello() {
        return "cs";
    }
   /* 测试链接
    * 请求: Get
    * 链接: 地址/api/cs
    * 参数: 无
    * 返回: json {"msg":"HelloWorld"}
    */
    @RequestMapping(value = "/cs")
    public @ResponseBody Map<String,String> cs() {
       Map<String, String> data = new HashMap<String, String>();
       data.put("msg","HelloWorld" );
        return data;
    }
    /*
    * 获取两张图片
    * 请求: Get
    * 链接: 地址/api/getpicture
    * 参数: 无
    * 返回: json
     * {
            "msg":"ok",
            "picture1":"/img/LostButtonPicture.png",
            "picture2":"/img/PickUpButtonPicture.png"
     * }
```

```
*/
   @RequestMapping(value = "/getpicture")
    public @ResponseBody
   Map<String,String> getPicture() {
        Map<String,String> data = new HashMap<String,String>();
       data.put("msg","ok" );
       data.put("picture1","/img/LostButtonPicture.png");
       data.put("picture2","/img/PickUpButtonPicture.png");
        return data;
   }
   /* 注册
    * 请求: Get
    * 链接: 地址/api/register
    * 参数: 无
    * 返回: json {"msg":"HelloWorld"}
    */
   @RequestMapping(value = "/register", method = RequestMethod.POST)
    public @ResponseBody
   Map<String,String> register(HttpServletRequest request) {
        String code = request.getParameter("code");
       Map<String, String> data = new HashMap<String, String>();
       data.put("msg","ok" );
        return data;
   }
   /* 获取手机号码
    * 请求: Get
    * 链接: 地址/api/getphone
    * 参数: 无
    * 返回: json {"msg":"HelloWorld"}
   @RequestMapping(value = "/getphone", method = RequestMethod.POST)
    public @ResponseBody Map<String, String> getPhone(HttpServletRequest
request) {
       Map<String, String> data = new HashMap<String, String>();
       try{
            String code = request.getParameter("code");
            System.out.println(code);
           //Map<String,String> params = new HashMap<String,String>();
            //params.put("chat","草莓");
//System.out.println(Request.doPostForm("http://****:80/spring_app_war/educat
ion",params));
```

```
//获取获取小程序全局唯一后台接口调用凭据(access_token)
        /* data:
        { appid: "wxf58558547a7b352a", //需要开通企业账号权限 用测试号也行
        secret: "c2ca1a3ee37256c970a0d6c4f4e475fc", // 这个测试号也有
       grant_type: "client_credential", //这个写死的 },
       * */
           String getTokenUrl = "https://api.weixin.qq.com/cgi-bin/token?
grant_type=client_credential&appid=wxf58558547a7b352a&secret=c2ca1a3ee37256c9
70a0d6c4f4e475fc":
           String jsonStringa = Request.doGet(getTokenUrl);
           System.out.println(jsonStringa);
           //String转JSON
           JSONObject jsonObject = JSONObject.parseObject(jsonStringa);
           String access_token = jsonObject.getString("access_token");
           //提交参数
           String getPhoneUrl =
"https://api.weixin.qq.com/wxa/business/getuserphonenumber?
access_token="+access_token;
           Map<String,Object> map = new HashMap<String,Object>();
           //map.put("access_token",access_token);
           map.put("code",code);
           JSONObject json = new JSONObject(map);
           System.out.println(map);
           System.out.println(json);
           String jsonStringb = Request.doPostForm(getPhoneUrl,json);
           System.out.println(jsonStringb);
           //String转JSON
           JSONObject jsonObject2 = JSONObject.parseObject(jsonStringb);
           //String转Map
           //Map<String,Object> tmp2 = Request.strToJson(jsonStringb);
           //String phone_info =(String)tmp2.get("phone_info");
           //System.out.println(phone_info);
           //data.put("phone_info",phone_info);
           HashMap hashMap =
JSONObject.parseObject(jsonObject2.toJSONString(), HashMap.class);
           if( 0 == (int)hashMap.get("errcode") ){
                                                                  //请求成功
               data.put("msg","ok" );
               JSONObject tmp2 = (JSONObject)hashMap.get("phone_info");
               data.put("phone",(String)tmp2.get("phoneNumber"));
           }else{
```

```
data.put("msg","fail" );
    data.put("error",(int)hashMap.get("errcode")+"" );
}

}catch (Exception e){
    System.out.println(e);
    data.put("msg","fail" );
}

return data;
}
```

Request.java

```
package com.url;
import com.alibaba.fastjson.JSONObject;
import com.google.gson.Gson;
import com.google.gson.Gson;
import java.io.*;
import java.net.HttpURLConnection;
import java.net.MalformedURLException;
import java.net.URL;
import java.net.URLConnection;
import java.text.ParseException;
import java.util.*;
//https://www.cnblogs.com/mufengforward/p/10510337.html
public class Request {
   /**
    * 向指定URL发送GET方法的请求
    * @param httpurl
                 请求参数用?拼接在url后边,请求参数应该是
name1=value1&name2=value2 的形式。
    * @return result 所代表远程资源的响应结果
   public static String doGet(String httpurl) {
       HttpURLConnection connection = null;
       InputStream is = null;
       BufferedReader br = null;
```

```
String result = null;// 返回结果字符串
try {
   // 创建远程url连接对象
   URL url = new URL(httpurl);
   // 通过远程url连接对象打开一个连接,强转成httpURLConnection类
   connection = (HttpURLConnection) url.openConnection();
   // 设置连接方式: get
   connection.setRequestMethod("GET");
   // 设置连接主机服务器的超时时间: 15000毫秒
   connection.setConnectTimeout(15000);
   // 设置读取远程返回的数据时间: 60000毫秒
   connection.setReadTimeout(60000);
   // 发送请求
   connection.connect();
   // 通过connection连接, 获取输入流
   if (connection.getResponseCode() == 200) {
       is = connection.getInputStream();
       // 封装输入流is,并指定字符集
       br = new BufferedReader(new InputStreamReader(is, "UTF-8"));
       // 存放数据
       StringBuffer sbf = new StringBuffer();
       String temp = null;
       while ((temp = br.readLine()) != null) {
           sbf.append(temp);
           sbf.append("\r\n");
       result = sbf.toString();
} catch (MalformedURLException e) {
   e.printStackTrace();
} catch (IOException e) {
   e.printStackTrace();
} finally {
   // 关闭资源
   if (null != br) {
       try {
           br.close();
       } catch (IOException e) {
           e.printStackTrace();
       }
   }
   if (null != is) {
       try {
           is.close();
       } catch (IOException e) {
           e.printStackTrace();
```

```
connection.disconnect();// 关闭远程连接
       }
       return result;
   }
   /**
    * @param httpUrl 请求的url
    * @param param form表单的参数 (key,value形式)
    * @return
    */
   public static String doPostForm(String httpUrl, Map param) {
       HttpURLConnection connection = null;
       InputStream is = null;
       OutputStream os = null;
       BufferedReader br = null;
       String result = null;
       try {
          URL url = new URL(httpUrl);
          // 通过远程url连接对象打开连接
          connection = (HttpURLConnection) url.openConnection();
          // 设置连接请求方式
          connection.setRequestMethod("POST");
          // 设置连接主机服务器超时时间: 15000毫秒
          connection.setConnectTimeout(15000);
          // 设置读取主机服务器返回数据超时时间: 60000毫秒
          connection.setReadTimeout(60000);
          // 默认值为: false, 当向远程服务器传送数据/写数据时, 需要设置为true
          connection.setDoOutput(true);
          // 默认值为: true, 当前向远程服务读取数据时,设置为true,该参数可有可无
          connection.setDoInput(true);
          // 设置传入参数的格式:请求参数应该是 name1=value1&name2=value2 的形式。
          connection.setRequestProperty("Content-Type",
"application/json");
          // 设置鉴权信息: Authorization: Bearer da3efcbf-0845-4fe3-8aba-
ee040be542c0
          //connection.setRequestProperty("Authorization", "Bearer
da3efcbf-0845-4fe3-8aba-ee040be542c0");
          // 通过连接对象获取一个输出流
          os = connection.getOutputStream();
          // 通过输出流对象将参数写出去/传输出去,它是通过字节数组写出的(form表单形式
的参数实质也是key,value值的拼接,类似于get请求参数的拼接)
          JSONObject json = new JSONObject(param);
```

```
os.write( createLinkString(param).getBytes() );
    // 通过连接对象获取一个输入流,向远程读取
    if (connection.getResponseCode() == 200) {
       is = connection.getInputStream();
       // 对输入流对象进行包装:charset根据工作项目组的要求来设置
       br = new BufferedReader(new InputStreamReader(is, "UTF-8"));
       StringBuffer sbf = new StringBuffer();
       String temp = null;
       // 循环遍历一行一行读取数据
       while ((temp = br.readLine()) != null) {
           sbf.append(temp);
           sbf.append("\r\n");
       result = sbf.toString();
} catch (MalformedURLException e) {
    e.printStackTrace();
} catch (IOException e) {
    e.printStackTrace();
} finally {
   // 关闭资源
   if (null != br) {
       try {
           br.close();
       } catch (IOException e) {
           e.printStackTrace();
   if (null != os) {
       try {
           os.close();
       } catch (IOException e) {
           e.printStackTrace();
       }
   if (null != is) {
       try {
           is.close();
       } catch (IOException e) {
           e.printStackTrace();
       }
    // 断开与远程地址url的连接
    connection.disconnect();
return result;
```

```
public static String doPostForm(String httpUrl, JSONObject param) {
       HttpURLConnection connection = null;
       InputStream is = null;
       OutputStream os = null;
       BufferedReader br = null;
       String result = null;
       try {
          URL url = new URL(httpUrl);
          // 通过远程url连接对象打开连接
          connection = (HttpURLConnection) url.openConnection();
          // 设置连接请求方式
          connection.setRequestMethod("POST");
          // 设置连接主机服务器超时时间: 15000毫秒
          connection.setConnectTimeout(15000);
          // 设置读取主机服务器返回数据超时时间: 60000毫秒
          connection.setReadTimeout(60000);
          // 默认值为: false, 当向远程服务器传送数据/写数据时, 需要设置为true
          connection.setDoOutput(true);
          // 默认值为: true, 当前向远程服务读取数据时,设置为true, 该参数可有可无
          connection.setDoInput(true);
          // 设置传入参数的格式:请求参数应该是 name1=value1&name2=value2 的形式。
          connection.setRequestProperty("Content-Type",
"application/json");
          // 设置鉴权信息: Authorization: Bearer da3efcbf-0845-4fe3-8aba-
ee040be542c0
          //connection.setRequestProperty("Authorization", "Bearer
da3efcbf-0845-4fe3-8aba-ee040be542c0");
          // 通过连接对象获取一个输出流
          os = connection.getOutputStream();
          // 通过输出流对象将参数写出去/传输出去,它是通过字节数组写出的(form表单形式
的参数实质也是key,value值的拼接,类似于get请求参数的拼接)
          os.write( param.toString().getBytes() );
          // 通过连接对象获取一个输入流,向远程读取
          if (connection.getResponseCode() == 200) {
              is = connection.getInputStream();
              // 对输入流对象进行包装:charset根据工作项目组的要求来设置
              br = new BufferedReader(new InputStreamReader(is, "UTF-8"));
              StringBuffer sbf = new StringBuffer();
              String temp = null;
              // 循环遍历一行一行读取数据
              while ((temp = br.readLine()) != null) {
```

```
sbf.append(temp);
               sbf.append("\r\n");
           result = sbf.toString();
   } catch (MalformedURLException e) {
       e.printStackTrace();
   } catch (IOException e) {
       e.printStackTrace();
   } finally {
       // 关闭资源
       if (null != br) {
           try {
               br.close();
           } catch (IOException e) {
               e.printStackTrace();
           }
       if (null != os) {
           try {
               os.close();
           } catch (IOException e) {
               e.printStackTrace();
           }
       }
       if (null != is) {
           try {
               is.close();
           } catch (IOException e) {
               e.printStackTrace();
           }
       }
       // 断开与远程地址url的连接
       connection.disconnect();
   return result;
}
/**
 * 把数组所有元素排序,并按照"参数=参数值"的模式用"&"字符拼接成字符串
 * @param params 需要排序并参与字符拼接的参数组
 * @return 拼接后字符串
 */
public static String createLinkString(Map<String, String> params) {
   List<String> keys = new ArrayList<String>(params.keySet());
```

```
Collections.sort(keys);
        StringBuilder prestr = new StringBuilder();
        for (int i = 0; i < keys.size(); i++) {</pre>
            String key = keys.get(i);
            String value = params.get(key);
            if (i == keys.size() - 1) {// 拼接时,不包括最后一个&字符
                prestr.append(key).append("=").append(value);
            } else {
                prestr.append(key).append("=").append(value).append("&");
        }
        return prestr.toString();
   }
    //String 转 Map
    public static Map<String,Object> strToJson(String jsonString) {
        Gson gson = new Gson();
        Map<String, Object> map = new HashMap<String, Object>();
        map = gson.fromJson(jsonString, map.getClass());
        return map;
    }
}
```