

```
package com.chengyu.amlias.common;
import java.util.regex.Pattern;
public class RegexUtil {
    public static final Pattern TAG_PATTERN = Pattern.compile("#([^\#|.]+)#");
    public static final String CHINESE_NAME = "^[\u4e00-\u9fa5]{2,32}$";
    public static final String BIRTHDAY = "([0-9]{3}[1-9]|[0-9]{2}[1-9][0-9]{1}|[0-9]{1}[1-9][0-9]{2}|[1-9][0-9]{3})-(((0[13578]|1[02])-(0[1-9]|12)[0-9]|3[01]))|(((0[469]|11)-(0[1-9]|12)[0-9]|30))|(02-(0[1-9]|1[0-9]|2[0-8]))));";
    public static final String WXCHAT_AND_MOBILE = "^[_a-zA-Z0-9]{5,20}$";
    public static final String PASSWORD = "[a-zA-Z0-9]{8,15}$";
    public static final String SERIAL_NUMBER = "[0-9].*";
    public static boolean isNumberDotStart(String input) {
        return input.matches(SERIAL_NUMBER);
    }
}
```

```
package com.chengyu.amlias.kafka_storm2;
import lombok.SneakyThrows;
import org.apache.storm.shade.org.apache.commons.collections.MapUtils;
import org.apache.storm.task.OutputCollector;
import org.apache.storm.task.TopologyContext;
import org.apache.storm.topology.OutputFieldsDeclarer;
import org.apache.storm.topology.base.BaseRichBolt;
import org.apache.storm.tuple.Tuple;
import org.example.kafka_storm2.Dao.StockListDao;
import org.example.kafka_storm2.entity.*;

import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.*;
import java.util.regex.Matcher;
import java.util.regex.Pattern;
public class StatAndStoreBolt extends BaseRichBolt {
    Map<String, String[]> counters;
    Map<String, String[]> todayCounters;
    Map<String, String[]> countersStock;
    Map<String, String[]> todayCountersStock;
    Map<String, String[]> countersPlatform;
    Map<String, String[]> todayCountersPlatform;
    Map<String, String[]> countersPlace;
    Map<String, String[]> todayCountersType;
    private OutputCollector collector;
    Integer type_count = 1;
    private int processedRecords = 0;
    private long begin = System.currentTimeMillis();

    @SneakyThrows
    public void prepare(Map stormConf, TopologyContext context, OutputCollector collector)
    {
        this.counters = new HashMap<String, String[]>();
```

```
this.todayCounters = new HashMap<String, String[]>();
this.countersStock = new HashMap<String, String[]>();
this.todayCountersStock = new HashMap<String, String[]>();
this.countersPlatform = new HashMap<String, String[]>();
this.todayCountersPlatform = new HashMap<String, String[]>();
this.countersPlace = new HashMap<String, String[]>();
this.todayCountersType = new HashMap<String, String[]>();
this.collector = collector;
}
@sneakyThrows
public void execute(Tuple tuple) {
    Integer count = tuple.getIntegerByField("volume");
    Double amount = tuple.getDoubleByField("amount");
    String time = tuple.getStringByField("time");
    String stockCode = tuple.getStringByField("stockCode");
    String stockType = tuple.getStringByField("tradeType");
    String stockName = tuple.getStringByField("stockName");
    String tradePlace = tuple.getStringByField("tradePlace");
    String tradePlatform = tuple.getStringByField("tradePlatform");
    String industryType = tuple.getStringByField("industryType");
    processedRecords++;
    long current = System.currentTimeMillis();
    if (current - begin >= 1000) {
        System.out.println("Records processed per second: " + processedRecords);
        StockListDao.UpdateCount(processedRecords);
        processedRecords = 0;
        begin = current;
    }
    try {
        String[] s = new String[2];
        String t = time.split(":")[0] + ":" + time.split(":")[1] + "_" + stockType;
        if (!counters.containsKey(t)) {
            Minit minute = new Minit();
            minute.setMinitName(t);
            minute.setMinitTime(time);
            minute.setTotalCount(count);
            minute.setTotalAmount(amount);
            minute.setStockName(stockName);
            minute.setStockType(stockType);
            minute.setStockCode(stockCode);
            minute.setPrice(amount);
            minute.setPlace(tradePlace);
            minute.setPlatform(tradePlatform);
            minute.setIndustryType(industryType);
            StockListDao.InsertMinit(minute);
            s[0] = String.valueOf(count);
            s[1] = String.valueOf(amount);
            counters.put(t, s);
        } else {
            String[] strings = counters.get(t);
```

```
        long count2 = Integer.parseInt(strings[0]) + count;
        double amount2 = Double.parseDouble(strings[1]) + amount;
        s[0] = String.valueOf(count2);
        s[1] = String.valueOf(amount2);
        counters.put(t, s);
        StockListDao.UpdateMinit(t, count2, amount2);
    }
    collector.ack(tuple);
} catch (Exception e) {
    e.printStackTrace();
    collector.fail(tuple);
}
try {
    String[] s = new String[2];
    //2023-11-14 10:46:45
    String dayTime = time.split(" ")[0] + stockType;
    if(!todayCounters.containsKey(dayTime)){
        Day day = new Day();
        day.setDayName(dayTime);
        day.setDayTime(time);
        day.setTotalCount(count);
        day.setTotalAmount(amount);
        day.setStockName(stockName);
        day.setStockType(stockType);
        day.setStockCode(stockCode);
        day.setPrice(amount);
        day.setPlace(tradePlace);
        day.setPlatform(tradePlatform);
        day.setIndustryType(industryType);

        StockListDao.InsertDay(day);

        s[0] = String.valueOf(count);
        s[1] = String.valueOf(amount);
        todayCounters.put(dayTime, s);
    }else{
        String[] strings = todayCounters.get(dayTime);
        long count2 = Integer.parseInt(strings[0]) + count;
        double amount2 = Double.parseDouble(strings[1]) + amount;
        s[0] = String.valueOf(count2);
        s[1] = String.valueOf(amount2);
        todayCounters.put(dayTime, s);
        StockListDao.UpdateDay(dayTime, count2, amount2);
    }
    collector.ack(tuple);
} catch (Exception e) {
    e.printStackTrace();
}
try {
    String[] s = new String[2];
```

```
//2023-11-14 10:46:45
String dayTime = time.split(" ")[0] + stockName;
if(!todayCountersStock.containsKey(dayTime)){
    Daystock daystock = new Daystock();
    daystock.setDayName(dayTime);
    daystock.setDayTime(time);
    daystock.setTotalCount(count);
    daystock.setTotalAmount(amount);
    daystock.setStockName(stockName);
    daystock.setStockCode(stockCode);
    daystock.setPrice(amount);
    daystock.setIndustryType(industryType);
    StockListDao.InsertDayStock(daystock);
    s[0] = String.valueOf(count);
    s[1] = String.valueOf(amount);
    todayCountersStock.put(dayTime, s);
}else{
    String[] strings = todayCountersStock.get(dayTime);
    long count2 = Integer.parseInt(strings[0]) + count;
    double amount2 = Double.parseDouble(strings[1]) + amount;
    s[0] = String.valueOf(count2);
    s[1] = String.valueOf(amount2);
    todayCountersStock.put(dayTime, s);
    StockListDao.UpdateDayStock(dayTime, count2, amount2);
}
collector.ack(tuple);
} catch (Exception e) {
    e.printStackTrace();
}
try {
    String[] s = new String[2];
    //2023-11-14 10:46:45
    String t = time.split(":")[0]+":"+time.split(":")[1] + "_" + stockName;

    if(!countersStock.containsKey(t)){
        Minitestock minitestock = new Minitestock();
        minitestock.setMiniteName(t);
        minitestock.setMiniteTime(time);
        minitestock.setTotalCount(count);
        minitestock.setTotalAmount(amount);
        minitestock.setStockName(stockName);
        minitestock.setStockCode(stockCode);
        minitestock.setPrice(amount);
        minitestock.setIndustryType(industryType);

        StockListDao.InsertMiniteStock(minitestock);

        s[0] = String.valueOf(count);
        s[1] = String.valueOf(amount);
        countersStock.put(t, s);
    }
}
```

```
    }else{
        String[] strings = countersStock.get(t);
        long count2 = Integer.parseInt(strings[0]) + count;
        double amount2 = Double.parseDouble(strings[1]) + amount;
        s[0] = String.valueOf(count2);
        s[1] = String.valueOf(amount2);
        countersStock.put(t, s);
        StockListDao.UpdateMiniteStock(t, count2, amount2);
    }
    collector.ack(tuple);
} catch (Exception e) {
    e.printStackTrace();
}
try {
    String[] s = new String[2];
    //2023-11-14 10:46:45
    String t = time.split(":")[0]+":"+time.split(":")[1] + "_" + tradePlatform;
    if(!countersPlatform.containsKey(t)){
        Miniteplatform miniteplatform = new Miniteplatform();
        miniteplatform.setMiniteName(t);
        miniteplatform.setMiniteTime(time);
        miniteplatform.setTotalCount(count);
        miniteplatform.setTotalAmount(amount);
        miniteplatform.setPlatform(tradePlatform);
        StockListDao.InsertMiniteplatform(miniteplatform);
        s[0] = String.valueOf(count);
        s[1] = String.valueOf(amount);
        countersPlatform.put(t, s);
    }else{
        String[] strings = countersPlatform.get(t);
        long count2 = Integer.parseInt(strings[0]) + count;
        double amount2 = Double.parseDouble(strings[1]) + amount;
        s[0] = String.valueOf(count2);
        s[1] = String.valueOf(amount2);
        countersPlatform.put(t, s);
        StockListDao.UpdateMiniteplatform(t, count2, amount2);
    }
    collector.ack(tuple);
} catch (Exception e) {
    e.printStackTrace();
}
try {
    String[] s = new String[2];
    //2023-11-14 10:46:45
    String t = time.split(" ")[0]+ tradePlatform;

    if(!todayCountersPlatform.containsKey(t)){
        Dayplatform dayplatform = new Dayplatform();
        dayplatform.setDayName(t);
        dayplatform.setDayTime(time);
```

```
        dayplatform.setTotalCount(count);
        dayplatform.setTotalAmount(amount);
        dayplatform.setPlatform(tradePlatform);
        StockListDao.InsertDayplatform(dayplatform);
        s[0] = String.valueOf(count);
        s[1] = String.valueOf(amount);
        todayCountersPlatform.put(t, s);
    }else{
        String[] strings = todayCountersPlatform.get(t);
        long count2 = Integer.parseInt(strings[0]) + count;
        double amount2 = Double.parseDouble(strings[1]) + amount;
        s[0] = String.valueOf(count2);
        s[1] = String.valueOf(amount2);
        todayCountersPlatform.put(t, s);
        StockListDao.UpdateDayplatform(t, count2, amount2);
    }
    collector.ack(tuple);
} catch (Exception e) {
    e.printStackTrace();
}
try {
    String[] s = new String[2];
    Pattern pattern = Pattern.compile("(.*?)(省|市)");
    Matcher matcher = pattern.matcher(tradePlace);
    if (matcher.find()) {
        tradePlace = matcher.group(1);
    }
    if(!countersPlace.containsKey(tradePlace)){
        Place place = new Place();
        place.setPlaceName(tradePlace);
        place.setTotalCount(count);
        place.setTotalAmount(count*amount);
        StockListDao.InsertPlace(place);
        s[0] = String.valueOf(count);
        s[1] = String.valueOf(count*amount);
        countersPlace.put(tradePlace, s);
    }else{
        String[] strings = countersPlace.get(tradePlace);
        long count2 = Integer.parseInt(strings[0]) + count;
        double amount2 = Double.parseDouble(strings[1]) + count*amount;
        s[0] = String.valueOf(count2);
        s[1] = String.valueOf(amount2);
        countersPlace.put(tradePlace, s);
        StockListDao.UpdatePlace(tradePlace, count2, amount2);
    }
    collector.ack(tuple);
} catch (Exception e) {
    e.printStackTrace();
}
try {
```

```

        String[] s = new String[2];
        String name = industryType;
        if(!todayCountersType.containsKey(name)){
            Type type = new Type();
            type.setType_name(name);
            type.setTotalCount(count);
            type.setTotalAmount(amount);
            type.setPlatform(tradePlatform);
            type.setPlace(tradePlace);
            StockListDao.InsertType(type);
            s[0] = String.valueOf(count);
            s[1] = String.valueOf(amount);

            todayCountersType.put(name, s);
        }else{
            String[] strings = todayCountersType.get(name);
            long count2 = Integer.parseInt(strings[0]) + count;
            double amount2 = Double.parseDouble(strings[1]) + amount;
            s[0] = String.valueOf(count2);
            s[1] = String.valueOf(amount2);
            todayCountersType.put(name, s);
            StockListDao.UpdateType(name, count2, amount2);
        }
        collector.ack(tuple);
    } catch (Exception e) {
        e.printStackTrace();
    }
}

public void declareOutputFields(OutputFieldsDeclarer declarer) {
}
}

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd">
<mapper namespace="com.chengyu.amlias.mapper.TransactionMapper">
    <resultMap type="Transaction" id="TransactionResult">
        <result property="transactionId" column="transaction_ID" />
        <result property="updatedAt" column="updated_at" />
        <result property="transactionDate" column="transaction_date" />
        <result property="amount" column="amount" />
        <result property="currency" column="currency" />
        <result property="status" column="status" />
        <result property="suspicionLevel" column="suspicion_level" />
        <result property="source" column="source" />
        <result property="reported" column="reported" />
        <result property="reportDate" column="report_date" />
        <result property="description" column="description" />
        <result property="destination" column="destination" />
        <result property="createdAt" column="created_at" />
        <result property="accountId" column="account_ID" />
    
```

```
<result property="machineLearningScore" column="machine_learning_score" />
<result property="transactionType" column="transaction_type" />
</resultMap>
<sql id="selectTransactionVo">
    select transaction_ID, updated_at, transaction_date, amount, currency, status, su
spicion_level, source, reported, report_date, description, destination, created_at, accou
nt_ID, machine_learning_score, transaction_type
    from amlias_transaction
</sql>
<select id="selectTransactionList" parameterType="Transaction" resultMap="Transaction
Result">
    <include refid="selectTransactionVo"/>
    <where>
        <if test="transactionId != null ">
            and transaction_ID = #{transactionId}
        </if>
        <if test="updatedAt != null ">
            and updated_at = #{updatedAt}
        </if>
        <if test="transactionDate != null and transactionDate != ''">
            and transaction_date = #{transactionDate}
        </if>
        <if test="amount != null ">
            and amount = #{amount}
        </if>
        <if test="currency != null and currency != ''">
            and currency = #{currency}
        </if>
        <if test="status != null and status != ''">
            and status = #{status}
        </if>
        <if test="suspicionLevel != null ">
            and suspicion_level = #{suspicionLevel}
        </if>
        <if test="source != null and source != ''">
            and source = #{source}
        </if>
        <if test="reported != null ">
            and reported = #{reported}
        </if>
        <if test="reportDate != null and reportDate != ''">
            and report_date = #{reportDate}
        </if>
        <if test="description != null and description != ''">
            and description = #{description}
        </if>
        <if test="destination != null and destination != ''">
            and destination = #{destination}
        </if>
        <if test="createdAt != null ">
```



```

        and created_at = #{createdAt}
    </if>
    <if test="accountId != null ">
        and account_ID = #{accountId}
    </if>
    <if test="machineLearningScore != null ">
        and machine_learning_score = #{machineLearningScore}
    </if>
    <if test="transactionType != null and transactionType != ''">
        and transaction_type = #{transactionType}
    </if>
</where>
</select>
<delete id="deleteTransactionByTransactionId" parameterType="Integer">
    delete from amlia_transaction where transaction_ID = #{transactionId}
</delete>

<insert id="insertTransaction" parameterType="Transaction" useGeneratedKeys="true" keyProperty="transactionId">
    insert into amlia_transaction
    <trim prefix="(" suffix=")" suffixOverrides=",">
        <if test="updatedAt != null">updated_at,</if>
        <if test="transactionDate != null and transactionDate != ''">transaction_date,<
    /if>

        <if test="amount != null">amount,</if>
        <if test="currency != null and currency != ''">currency,</if>
        <if test="status != null and status != ''">status,</if>
        <if test="suspicionLevel != null">suspicion_level,</if>
        <if test="source != null and source != ''">source,</if>
        <if test="reported != null">reported,</if>
        <if test="reportDate != null and reportDate != ''">report_date,</if>
        <if test="description != null and description != ''">description,</if>
        <if test="destination != null and destination != ''">destination,</if>
        <if test="createdAt != null">created_at,</if>
        <if test="accountId != null">account_ID,</if>
        <if test="machineLearningScore != null">machine_learning_score,</if>
        <if test="transactionType != null and transactionType != ''">transaction_type,<
    /if>

    </trim>
    <trim prefix="values (" suffix=")" suffixOverrides=",">
        <if test="updatedAt != null">#{updatedAt},</if>
        <if test="transactionDate != null and transactionDate != ''">#{transactionDate},</if>

        <if test="amount != null">#{amount},</if>
        <if test="currency != null and currency != ''">#{currency},</if>
        <if test="status != null and status != ''">#{status},</if>
        <if test="suspicionLevel != null">#{suspicionLevel},</if>
        <if test="source != null and source != ''">#{source},</if>
        <if test="reported != null">#{reported},</if>
        <if test="reportDate != null and reportDate != ''">#{reportDate},</if>

```

```

        <if test="description != null and description != ''">#{description},</if>
        <if test="destination != null and destination != ''">#{destination},</if>
        <if test="createdAt != null">#{createdAt},</if>
        <if test="accountId != null">#{accountId},</if>
        <if test="machineLearningScore != null">#{machineLearningScore},</if>
        <if test="transactionType != null and transactionType != ''">#{transactionType},</if>
    e},</if>

    </trim>
</insert>

<delete id="deleteTransactionByTransactionIds" parameterType="String">
    delete from amlias_transaction where transaction_ID in
    <foreach item="transactionId" collection="array" open="(" separator="," close=")">
        #{transactionId}
    </foreach>
</delete>
</mapper>

package com.chengyu.amlas.mapper;
import java.util.List;
import com.chengyu.amlas.domain.InvestigationRecord;
import com.baomidou.mybatisplus.core.mapper.BaseMapper;
/**
 * 调查记录 Dao 接口
 */
public interface InvestigationRecordMapper extends BaseMapper<InvestigationRecord>{
    /**
     * 新增调查记录
     *
     * @param investigationRecord 调查记录
     * @return
     */
    int insertInvestigationRecord(InvestigationRecord investigationRecord);

    /**
     * 修改调查记录
     *
     * @param investigationRecord 调查记录
     * @return
     */
    int updateInvestigationRecord(InvestigationRecord investigationRecord);

    /**
     * 查询调查记录列表
     *
     * @param recordId 调查记录主键
     * @return
     */
    InvestigationRecord selectInvestigationRecordById(Integer recordId);

    /**
     * 根据条件查询调查记录

```

```
    */
    List<InvestigationRecordVo> selectByCondition(InvestigationRecordQueryDto queryInvestigationRecordDto);

    /**
     * 删除调查记录
     * @param recordId 调查记录主键
     * @return
     */
    int deleteInvestigationRecordByRecordId(Integer recordId);

    /**
     * 批量删除调查记录
     * @param recordIds ID 集合
     * @return
     */
    int deleteInvestigationRecordByRecordIds(Integer[] recordIds);
}

package com.chengyu.amlias.modules.admin.service;
import com.alibaba.fastjson.JSONArray;
import com.alibaba.fastjson.JSONObject;
import com.baomidou.mybatisplus.core.conditions.query.LambdaQueryWrapper;
import com.baomidou.mybatisplus.core.conditions.update.LambdaUpdateWrapper;
import com.baomidou.mybatisplus.extension.service.impl.ServiceImpl;
import com.chengyu.amlias.common.constant.SystemConstant;
import com.chengyu.amlias.common.exception.GlobalException;
import com.chengyu.amlias.modules.admin.dao.SysMenuDao;
import com.chengyu.amlias.modules.admin.entity.SysMenuEntity;
import com.chengyu.amlias.modules.admin.entity.SysRoleMenuEntity;
import com.chengyu.amlias.modules.admin.model.SysMenuTree;
import com.chengyu.amlias.modules.admin.model.TreeModel;
import org.apache.commons.lang3.StringUtils;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import org.springframework.transaction.annotation.Transactional;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.stream.Collectors;
@Service
public class SysMenuServiceImpl extends ServiceImpl<SysMenuDao, SysMenuEntity> {

    @Autowired
    private SysRoleMenuServiceImpl sysRoleMenuService;

    public void addPermission(SysMenuEntity sysPermission) {
        if (SystemConstant.MenuTypeEnum.MENU_TYPE_0.getValue() == sysPermission.getMenuTy
```

```
pe()) {
    sysPermission.setParentId(0L);
} else {
    if (sysPermission.getParentId() == null) {
        throw new GlobalException("父级菜单 ID 参数不存在");
    } else {
        SysMenuEntity menu = this.getById(sysPermission.getParentId());
        if (menu == null) {
            throw new GlobalException("所选父级数据不存在");
        }
    }
}
Long parentId = sysPermission.getParentId();
if (parentId != null && parentId != 0) {
    this.update(new LambdaUpdateWrapper<SysMenuEntity>().eq(SysMenuEntity::getId,
parentId).set(SysMenuEntity::getIsLeaf, 0));
}
sysPermission.setIsLeaf(1);
this.save(sysPermission);
}

public void editPermission(SysMenuEntity sysPermission) {
    SysMenuEntity oldP = this.getById(sysPermission.getId());
    if (oldP == null) {
        throw new GlobalException("未找到菜单信息");
    } else {
        if (SystemConstant.MenuTypeEnum.MENU_TYPE_0.getValue() == sysPermission.getMenuType()) {
            sysPermission.setParentId(0L);
        }
        int count = this.count(new LambdaQueryWrapper<SysMenuEntity>().eq(SysMenuEntity::getParentId, sysPermission.getId()));
        if (count == 0) {
            sysPermission.setIsLeaf(1);
        }
        this.updateById(sysPermission);
        Long pid = sysPermission.getParentId();
        if (!pid.equals(oldP.getParentId())) {
            this.update(new LambdaUpdateWrapper<SysMenuEntity>().eq(SysMenuEntity::getId, pid).set(SysMenuEntity::getIsLeaf, 0));
            int cc = this.count(new LambdaQueryWrapper<SysMenuEntity>().eq(SysMenuEntity::getParentId, oldP.getParentId()));
            if (cc == 0) {
                this.update(new LambdaUpdateWrapper<SysMenuEntity>().eq(SysMenuEntity::getId, oldP.getParentId()).set(SysMenuEntity::getIsLeaf, 1));
            }
        }
    }
}
```

```
/**
 * 删除信息
 *
 * @param id 记录 ID
 */
@Transactional
public void deletePermission(Long id) {
    SysMenuEntity sysPermission = this.getById(id);
    if (sysPermission == null) {
        throw new GlobalException("未找到信息");
    }
    Long pid = sysPermission.getParentId();
    int count = this.count(new LambdaQueryWrapper<SysMenuEntity>().eq(SysMenuEntity::
getParentId, pid));
    if (count == 1) {
        this.update(new LambdaUpdateWrapper<SysMenuEntity>().eq(SysMenuEntity::getId,
pid).set(SysMenuEntity::getIsLeaf, 1));
    }
    this.removeById(id);
    this.removeChildrenBy(sysPermission.getId());
    sysRoleMenuService.remove(new LambdaQueryWrapper<SysRoleMenuEntity>().eq(SysRoleM
enuEntity::getMenuId, id));
}

public JSONObject getUserPermission(String username, String systemCode) {
    List<SysMenuEntity> metaList = this.baseMapper.getUserPermission(username, system
Code);
    if (metaList.size() == 0) {
        throw new GlobalException("用户对应角色未分配权限");
    }
    JSONObject json = new JSONObject();
    JSONArray menuDataArray = new JSONArray();
    this.getPermissionJsonArray(menuDataArray, metaList, null);
    json.put("menu", menuDataArray);
    List<String> auth = metaList.stream().filter(f -> f.getMenuType().equals(SystemC
onstant.MenuTypeEnum.MENU_TYPE_2.getValue()))
        .map(SysMenuEntity::getPermsCode).collect(Collectors.toList());
    json.put("button", auth);
    return json;
}

public Map<String, Object> queryTreeList(String systemCode) {
    LambdaQueryWrapper<SysMenuEntity> query = new LambdaQueryWrapper<>();
    query.eq(SysMenuEntity::getSystemCode, systemCode).orderByAsc(SysMenuEntity::getS
ortNo);
    List<SysMenuEntity> menuList = this.list(query);
    List<Long> ids = new ArrayList<>();
    Map<Long, List<TreeModel>> treeList = menuList.stream().peek(p -> ids.add(p.getId
())).map(TreeModel::new).collect(Collectors.groupingBy(TreeModel::getParentId));
    List<TreeModel> root = treeList.get(0L);
}
```

```
        circulateMenuParse(root, treeList);
        Map<String, Object> resMap = new HashMap<>();
        resMap.put("treeList", root);
        resMap.put("ids", ids);
        return resMap;
    }

    public void circulateMenuParse(List<TreeModel> root, Map<Long, List<TreeModel>> group
ByParent) {
        for (TreeModel temp : root) {
            List<TreeModel> child = groupByParent.get(temp.getKey());
            if (child == null) {
                continue;
            }
            temp.setChildren(child);
            circulateMenuParse(child, groupByParent);
        }
    }

    public Map<Long, List<SysMenuTree>> getSystemSubmenuBatch(List<Long> parentIdList) {
        List<SysMenuEntity> list = this.list(new LambdaQueryWrapper<SysMenuEntity>().in(S
ysMenuEntity::getParentId, parentIdList).orderByAsc(SysMenuEntity::getSortNo));
        Map<Long, List<SysMenuTree>> listMap = new HashMap<>();
        for (SysMenuEntity item : list) {
            List<SysMenuTree> mapList = listMap.getOrDefault(item.getParentId(), new Arra
yList<>());
            mapList.add(new SysMenuTree(item));
            listMap.put(item.getParentId(), mapList);
        }
        return listMap;
    }

    public Boolean checkRolePermission(String permissionIds) {
        List<Long> newPermissionIds = Arrays.stream(permissionIds.split(",")).map(Long::p
arseLong).collect(Collectors.toList());
        for (Long permissionId : newPermissionIds) {
            SysMenuEntity permission = this.getById(permissionId);
            if (permission.getParentId() != 0) {
                if (!newPermissionIds.contains(permission.getParentId())) {
                    return false;
                }
            }
        }
        return true;
    }

    private void getPermissionJsonArray(JSONArray jsonArray, List<SysMenuEntity> metaList,
JSONObject parentJson) {
        for (SysMenuEntity permission : metaList) {
            if (permission.getMenuType() == null || permission.getMenuType().equals(Syste
```

```
mConstant.MenuTypeEnum.MENU_TYPE_2.getValue())) {
    continue;
}
JSONObject json = getPermissionJsonObject(permission);
Long tempPid = permission.getParentId();
if (parentJson == null && tempPid == 0) {
    jsonArray.add(json);
    if (permission.getIsLeaf().equals(0)) {
        getPermissionJsonArray(jsonArray, metaList, json);
    }
} else if (parentJson != null && tempPid != 0 && tempPid.equals(parentJson.getLong("id"))) {
    if (parentJson.containsKey("children")) {
        parentJson.getJSONArray("children").add(json);
    } else {
        JSONArray children = new JSONArray();
        children.add(json);
        parentJson.put("children", children);
    }
    if (permission.getIsLeaf().equals(0)) {
        getPermissionJsonArray(jsonArray, metaList, json);
    }
}
}
}

private JSONObject getPermissionJsonObject(SysMenuEntity permission) {
    JSONObject json = new JSONObject();
    json.put("id", permission.getId());
    json.put("path", permission.getUrl());
    json.put("name", urlToRouteName(permission.getUrl()));
    json.put("component", permission.getComponent());
    JSONObject meta = new JSONObject();
    meta.put("title", permission.getName());
    meta.put("icon", permission.getIcon());
    meta.put("parentPath", permission.getParentUrl());
    meta.put("isHidden", permission.getIsHidden().equals(1));
    meta.put("showAlways", permission.getShowAlways().equals(1));
    String component = permission.getComponent();
    if (StringUtils.isNotBlank(component)) {
        meta.put("componentName", component.substring(component.lastIndexOf("/") + 1));
    }
    if (permission.getParentId() == 0) {
        json.put("redirect", permission.getRedirect());
    }
    json.put("meta", meta);
    return json;
}
```

```
private String urlToRouteName(String url) {
    if (StringUtils.isEmpty(url)) {
        if (url.startsWith("/")) {
            url = url.substring(1);
        }
        url = url.replace("/", "-");
        url = url.replace(":", "@");
        return url;
    } else {
        return null;
    }
}

/**
 * 根据 id 删除其关联的子数据
 */
public void removeChildrenBy(Long parentId) {
    LambdaQueryWrapper<SysMenuEntity> query = new LambdaQueryWrapper<>();
    query.eq(SysMenuEntity::getParentId, parentId);
    List<SysMenuEntity> permissionList = this.list(query);
    if (permissionList != null && permissionList.size() > 0) {
        Long id; // id
        int num;
        this.remove(query);
        for (SysMenuEntity sysMenuEntity : permissionList) {
            id = sysMenuEntity.getId();
            sysRoleMenuService.remove(new LambdaQueryWrapper<SysRoleMenuEntity>().eq(
SysRoleMenuEntity::getMenuId, id));
            num = this.count(new LambdaQueryWrapper<SysMenuEntity>().eq(SysMenuEntity::
getParentId, id));
            if (num > 0) {
                this.removeChildrenBy(id);
            }
        }
    }
}

package com.chengyu.amlias.service.impl;
import com.baomidou.mybatisplus.extension.service.impl.ServiceImpl;
import com.chengyu.amlias.mapper.AccountMapper;
import com.chengyu.amlias.domain.Account;
import com.chengyu.amlias.service.IAccountService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.List;

@Service
public class AccountServiceImpl extends ServiceImpl<AccountMapper, Account> implements IAccountService {
    @Autowired
    private AccountMapper accountMapper;
}
```



```
@Override
public Account getAccountByAccountId(Integer accountId){
    return accountMapper.selectAccountByAccountId(accountId);
}

@Override
public List<Account> listAccount(Account account){
    return accountMapper.selectAccountList(account);
}

@Transactional
@Override
public int saveAccount(Account account){
    return accountMapper.insertAccount(account);
}

private void checkExisted(AccountEntity entity) {
    AccountEntity existEntity = getOne(
        Wrappers.lambdaQuery(AccountEntity.class)
            .eq(AccountEntity::getAccountId, entity.getAccountId)
            .false);
    if (existEntity != null && !existEntity.getId().equals(entity.getId())) {
        throw new BizException("账户信息记录已存在!");
    }
}

@Override
@Transactional
public int delAccountByAccountIds(Integer[] accountIds){
    return accountMapper.deleteAccountByAccountIds(accountIds);
}

private void accountData(List<AccountDto> list) {
    List<String> list = list.stream().map(AccountDto::getAccountId)
        .collect(Collectors.toList());
    list.stream().forEach(account -> {
        Account accountEntry = entryAccountMap.get(account.getAccountId);
        if (accountEntry != null) {
            account.setCustomerId(AccountTrans(accountEntry.getCustomerId));
            account.setMonitorReason(AccountTrans(accountEntry.getMonitorReason));
            account.setCloseDate(AccountTrans(accountEntry.getCloseDate));
            account.setAccountId(AccountTrans(accountEntry.getAccountId));
            account.setAccountNumber(AccountTrans(accountEntry.getAccountNumber));
        }
    });
}

@Override
@Transactional
```

```
public int updateAccount(Account account){
    return accountMapper.updateAccount(account);
}

@Override
@Transactional
public int delAccountByAccountId(Integer accountId){
    return accountMapper.deleteAccountByAccountId(accountId);
}
}

package com.chengyu.amlias.domain;
import java.math.BigDecimal;
import java.util.Date;
import com.fasterxml.jackson.annotation.JsonFormat;
import lombok.Data;
import com.chengyu.amlias.common.annotation.Excel;
import com.baomidou.mybatisplus.annotation.TableName;
import com.chengyu.amlias.common.core.domain.BaseEntity;
/**
 * 交易记录实体类
 */
@TableName("amlias_transaction")
@Data
public class Transaction extends BaseEntity {
    private static final long serialVersionUID = -1652537082245114157LL;
    // 交易 ID
    private Integer transactionId;
    // 更新时间
    private Date updatedAt;
    // 交易日期
    private String transactionDate;
    // 交易金额
    private BigDecimal amount;
    // 货币类型
    private String currency;
    // 交易状态
    private String status;
    // 可疑程度等级
    private Integer suspicionLevel;
    // 交易来源
    private String source;
    // 是否已报告
    private Integer reported;
    // 报告日期
    private String reportDate;
    // 交易描述
    private String description;
    // 交易目的地
    private String destination;
    // 创建时间
```

```
private Date createdAt;
// 账户 ID
private Integer accountId;
// 机器学习评分
private BigDecimal machineLearningScore;
// 交易类型
private String transactionType;
}

package com.chengyu.amlias.modules.admin.controller;
import com.chengyu.amlias.common.ErrorCodeEnum;
import com.chengyu.amlias.common.annotation.SysLog;
import com.chengyu.amlias.common.exception.GlobalException;
import com.chengyu.amlias.common.utils.HardwareUtils;
import com.chengyu.amlias.common.utils.result.R;
import com.chengyu.amlias.modules.admin.service.SysLicenseServiceImpl;
import io.swagger.annotations.Api;
import io.swagger.annotations.ApiImplicitParam;
import io.swagger.annotations.ApiImplicitParams;
import io.swagger.annotations.ApiOperation;
import io.swagger.annotations.ApiParam;
import lombok.extern.slf4j.Slf4j;
import org.apache.commons.io.IOUtils;
import org.apache.commons.lang3.StringUtils;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.HttpHeaders;
import org.springframework.http.MediaType;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
import org.springframework.web.multipart.MultipartFile;
import javax.servlet.http.HttpServletResponse;
import java.io.File;
import java.io.FileInputStream;
import java.io.IOException;
import java.nio.charset.StandardCharsets;
@Slf4j
@RestController
@RequestMapping("/sys/license")
@Api(tags = "系统授权")
public class SysLicenseSettingController {

    @Autowired
    private SysLicenseServiceImpl sysLicenseService;

    @SuppressWarnings("ResultOfMethodCallIgnored")
    @GetMapping("/download")
    @ApiOperation("下载服务器硬件信息")
    @SysLog(value = "下载服务器硬件信息", isSaveDatabase = true)
    public void downloadLicense(HttpServletResponse response) {
```

```
String filePath = HardwareUtils.initLicense();
File file = new File(filePath);
if (!file.exists()) {
    throw new GlobalException("下载服务器硬件信息异常");
}
response.setContentType(MediaType.APPLICATION_OCTET_STREAM_VALUE);
response.setCharacterEncoding(StandardCharsets.UTF_8.name());
response.setContentLength((int) file.length());
response.setHeader(HttpHeaders.CONTENT_DISPOSITION, "attachment;filename=license.
info");
try {
    IOUtils.copy(new FileInputStream(file), response.getOutputStream());
    response.flushBuffer();
} catch (Exception e) {
    throw new GlobalException("下载服务器硬件信息异常");
} finally {
    file.delete();
}
}

@PostMapping("/upload")
@ApiOperation("上传服务器程序 License 信息")
@SysLog(value = "上传服务器程序 License 信息", isSaveDatabase = true)
public R uploadLicense(@ApiParam("License 文件") MultipartFile file, String licenseCon
tent) throws IOException {
    if (StringUtils.isBlank(licenseContent)) {
        if (file == null) {
            throw new GlobalException("未发现上传的 License 信息");
        }
        licenseContent = IOUtils.toString(file.getInputStream(), StandardCharsets.UTF
_8.name());
    }
    if (HardwareUtils.hardwareNotMatch(licenseContent)) { // 硬件信息匹配判断
        return R.successCode(ErrorCodeEnum.LICENSE_VALID_EXCEPTION);
    }
    // 保存信息到数据库
    return sysLicenseService.updateLicenseInfo(licenseContent);
}

@GetMapping("/info")
@ApiOperation("获取 License 信息")
public R searchLicenseInfo() {
    return R.success(sysLicenseService.searchLicenseInfo());
}

@GetMapping("/check_license")
@ApiOperation("验证 License 合法性")
public R CheckLicenseInfo() {
    return sysLicenseService.checkLicenseStatus();
}
```

```
}

package com.chengyu.amlias.modules.admin.controller;
import com.baomidou.mybatisplus.core.metadata.IPage;
import com.baomidou.mybatisplus.extension.plugins.pagination.Page;
import com.chengyu.amlias.common.annotation.SysLog;
import com.chengyu.amlias.common.utils.result.R;
import com.chengyu.amlias.modules.admin.entity.SysLogEntity;
import com.chengyu.amlias.modules.admin.service.SysLogServiceImpl;
import com.chengyu.amlias.modules.admin.vo.ReqSysLogVo;
import io.swagger.annotations.Api;
import io.swagger.annotations.ApiImplicitParam;
import io.swagger.annotations.ApiImplicitParams;
import io.swagger.annotations.ApiOperation;
import lombok.extern.slf4j.Slf4j;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.RestController;
import java.util.Arrays;
import java.util.List;
import java.util.stream.Collectors;
@Slf4j
@RestController
@RequestMapping("/sys/log")
@Api(tags = {"系统日志"})
public class SysLogController {

    @Autowired
    private SysLogServiceImpl sysLogService;

    @ApiOperation("系统日志-分页")
    @SysLog(value = "系统日志分页列表查询")
    @GetMapping
    @ApiImplicitParams({
        @ApiImplicitParam(name = "pageNo", value = "当前页", example = "1"),
        @ApiImplicitParam(name = "pageSize", value = "每页大小", example = "10")
    })
    public R getSysLogPageList(
        ReqSysLogVo reqSysLogVo,
        @RequestParam(name = "pageNo", defaultValue = "1") Integer pageNo,
        @RequestParam(name = "pageSize", defaultValue = "10") Integer pageSize) {
        IPage<SysLogEntity> page = new Page<>(pageNo, pageSize);
        return R.success(sysLogService.getSysLogPageList(page, reqSysLogVo));
    }

    @ApiOperation("系统日志-删除")
    @SysLog(value = "删除系统操作日志", isSaveDatabase = true)
    @DeleteMapping
```

```
public R deleteSysLog(String ids) {
    List<Long> idList = Arrays.stream(ids.split(",")).map(Long::parseLong).collect(Collectors.toList());
    syslogService.removeByIds(idList);
    return R.success();
}

package com.chengyu.amlias.common.vo;
import lombok.Data;
import lombok.experimental.Accessors;
import java.util.List;
import java.util.Map;
@Accessors(chain = true)
@Data
public class SearchResultVo<T> {

    // 返回的记录集合
    private List<T> records;

    // 返回的拓展集合
    private Map<?, ?> maps;

    // 当前页
    private Integer current;

    // 总条数
    private Integer total;

    // 每页大小
    private Integer size;

    /**
     * 总页数
     */
    private Integer pages;

    public SearchResultVo(Integer current, Integer size, Integer total) {
        if (current != null && size != null) {
            this.current = current;
            this.total = total;
            this.size = size;
            this.setPages(total % size == 0 ? total / size : total / size + 1);
        }
    }

    public SearchResultVo(List<T> records, Integer current, Integer total, Integer size)
    {
        this.records = records;
        this.current = current;
        this.total = total;
    }
}
```

```
        this.size = size;
        if (current != null && size != null) {
            this.setPages(total % size == 0 ? total / size : total / size + 1);
        }
    }

    public SearchResultVo(List<T> records, Map<?, ?> maps, Integer current, Integer total,
Integer size) {
        this.records = records;
        this.maps = maps;
        this.current = current;
        this.total = total;
        this.size = size;
        if (current != null && size != null) {
            this.setPages(total % size == 0 ? total / size : total / size + 1);
        }
    }

    public SearchResultVo() {
    }
}

package com.chengyu.amlias.common.utils.result;
import com.alibaba.fastjson.annotation.JSONField;
import io.swagger.annotations.ApiModel;
import io.swagger.annotations.ApiModelProperty;
import lombok.Data;
@Data
@ApiModel(value = "状态")
public class ResultStatus {

    @ApiModelProperty("状态码")
    @JSONField(ordinal = 1)
    private int code;

    @ApiModelProperty("信息描述")
    @JSONField(ordinal = 2)
    private String message;
}

package com.chengyu.amlias.modules.admin.controller;
import com.chengyu.amlias.common.ErrorCodeEnum;
import com.chengyu.amlias.common.utils.result.R;
import com.chengyu.amlias.modules.admin.dao.DuplicateCheckDao;
import com.chengyu.amlias.modules.admin.vo.system.DuplicateCheckVo;
import lombok.extern.slf4j.Slf4j;
import org.apache.commons.lang3.StringUtils;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.HttpStatus;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RestController;
```

```
@S1f4j
@RestController
@RequestMapping("/sys/duplicate")
public class DuplicateCheckController {
    @Autowired
    private DuplicateCheckDao duplicateCheckDao;
    @RequestMapping(value = "/check", method = RequestMethod.GET)
    public R doDuplicateCheck(DuplicateCheckVo duplicateCheckVo) {
        Long num;
        // 关联表字典（举例：system_user,realname,id）
        Long delFlagFieldCount = duplicateCheckDao.delFlagFieldCheck(duplicateCheckVo);
        // 判断表中是否存在逻辑删除字段，如果存在那么需要对逻辑删除字段进行判断，逻辑删除
        字段为“is_delete”（写死）
        if (delFlagFieldCount == 0) {
            if (StringUtils.isNotBlank(duplicateCheckVo.getDataId())) {
                // [2].编辑页面校验
                num = duplicateCheckDao.duplicateCheckCountSql(duplicateCheckVo);
            } else {
                // [1].添加页面校验
                num = duplicateCheckDao.duplicateCheckCountSqlNoDataId(duplicateCheckVo);
            }
        } else {
            if (StringUtils.isNotBlank(duplicateCheckVo.getDataId())) {
                // [2].编辑页面校验
                num = duplicateCheckDao.duplicateCheckWithDelFlag(duplicateCheckVo);
            } else {
                // [1].添加页面校验
                num = duplicateCheckDao.duplicateCheckNoDataIdWithDelFlag(duplicateCheckVo);
            }
        }
        if (num == null || num == 0) {
            return R.success("该值可用");
        } else {
            return R.error(HttpStatus.OK, ErrorCodeEnum.FAILED.getCode(), "该值已存在");
        }
    }
}

package com.chengyu.amlias.domain;
import java.util.Date;
import com.fasterxml.jackson.annotation.JsonFormat;
import lombok.Data;
import com.chengyu.amlias.common.annotation.Excel;
import com.baomidou.mybatisplus.annotation.TableName;
import com.chengyu.amlias.common.core.domain.BaseEntity;
/**
 * 预警记录实体类
 */
@TableName("amlias_alertrecord")
@Data
```



```

public class AlertRecord extends BaseEntity {
    private static final long serialVersionUID = --2720771415916660211LL;
    // 预警 ID
    private Integer alertId;
    // 预警时间
    private String alertTime;
    // 创建时间
    private Date createdAt;
    // 调查状态
    private String investigationStatus;
    // 预警信息
    private String alertMessage;
    // 更新时间
    private Date updatedAt;
    // 关联的交易 ID
    private Integer transactionId;
    // 触发的监控规则 ID
    private Integer ruleId;
    // 预警级别
    private String alertLevel;
}

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd">
<mapper namespace="com.chengyu.amlias.mapper.MonitoringRuleMapper">
    <resultMap type="MonitoringRule" id="MonitoringRuleResult">
        <result property="ruleId" column="rule_ID" />
        <result property="updatedAt" column="updated_at" />
        <result property="createdAt" column="created_at" />
        <result property="triggerCondition" column="trigger_condition" />
        <result property="description" column="description" />
        <result property="ruleName" column="rule_name" />
        <result property="active" column="active" />
    </resultMap>
    <sql id="selectMonitoringRuleVo">
        select rule_ID, updated_at, created_at, trigger_condition, description, rule_name,
active
        from amlias_monitoringrule
    </sql>
    <select id="selectMonitoringRuleList" parameterType="MonitoringRule" resultMap="MonitoringRuleResult">
        <include refid="selectMonitoringRuleVo"/>
        <where>
            <if test="ruleId != null ">
                and rule_ID = #{ruleId}
            </if>
            <if test="updatedAt != null ">
                and updated_at = #{updatedAt}
            </if>
            <if test="createdAt != null ">

```

```

        and created_at = #{createdAt}
    </if>
    <if test="triggerCondition != null and triggerCondition != ''">
        and trigger_condition = #{triggerCondition}
    </if>
    <if test="description != null and description != ''">
        and description = #{description}
    </if>
    <if test="ruleName != null and ruleName != ''">
        and rule_name = #{ruleName}
    </if>
    <if test="active != null ">
        and active = #{active}
    </if>
</where>
</select>
<delete id="deleteMonitoringRuleByRuleId" parameterType="Integer">
    delete from amlias_monitoringrule where rule_ID = #{ruleId}
</delete>

<insert id="insertMonitoringRule" parameterType="MonitoringRule" useGeneratedKeys="true" keyProperty="ruleId">
    insert into amlias_monitoringrule
    <trim prefix="(" suffix=")" suffixOverrides=",">
        <if test="updatedAt != null">updated_at,</if>
        <if test="createdAt != null">created_at,</if>
        <if test="triggerCondition != null and triggerCondition != ''">trigger_condit
ion,</if>
        <if test="description != null and description != ''">description,</if>
        <if test="ruleName != null and ruleName != ''">rule_name,</if>
        <if test="active != null">active,</if>
    </trim>
    <trim prefix="values (" suffix=")" suffixOverrides=",">
        <if test="updatedAt != null">#{updatedAt},</if>
        <if test="createdAt != null">#{createdAt},</if>
        <if test="triggerCondition != null and triggerCondition != ''">#{triggerCondi
tion},</if>
        <if test="description != null and description != ''">#{description},</if>
        <if test="ruleName != null and ruleName != ''">#{ruleName},</if>
        <if test="active != null">#{active},</if>
    </trim>
</insert>
<delete id="deleteMonitoringRuleByRuleIds" parameterType="String">
    delete from amlias_monitoringrule where rule_ID in
    <foreach item="ruleId" collection="array" open="(" separator="," close=")">
        #{ruleId}
    </foreach>
</delete>
</mapper>
package com.chengyu.amlas.domain;

```

```
import java.math.BigDecimal;
import java.util.Date;
import com.fasterxml.jackson.annotation.JsonFormat;
import lombok.Data;
import com.chengyu.amlias.common.annotation.Excel;
import com.baomidou.mybatisplus.annotation.TableName;
import com.chengyu.amlias.common.core.domain.BaseEntity;
/**
 * 机器学习模型实体类
 */
@TableName("amlias_mlmodel")
@Data
public class MLModel extends BaseEntity {
    private static final long serialVersionUID = --4240740043072791782LL;
    // 模型 ID
    private Integer modelId;
    // 更新时间
    private Date updatedAt;
    // 模型类型
    private String modelType;
    // 训练数据描述
    private String trainingData;
    // 模型名称
    private String modelName;
    // 创建时间
    private Date createdAt;
    // 准确率
    private BigDecimal accuracy;
}
package com.chengyu.amlias.controller;
import java.util.List;
import javax.servlet.http.HttpServletResponse;
import com.chengyu.amlias.common.core.domain.RespResult;
import org.springframework.security.access.prepost.PreAuthorize;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.RestController;
import com.chengyu.amlias.common.annotation.Log;
import com.chengyu.amlias.common.core.controller.BaseController;
import com.chengyu.amlias.common.utils.poi.ExcelUtil;
import com.chengyu.amlias.common.core.page.TableDataInfo;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.PutMapping;
import org.springframework.web.bind.annotation.GetMapping;
import com.chengyu.amlias.common.enums.BusinessType;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import com.chengyu.amlias.domain.MonitoringRule;
import com.chengyu.amlias.service.IMonitoringRuleService;
import org.springframework.web.bind.annotation.PathVariable;
```

```
@RestController
@RequestMapping("/monitoringrule")
public class MonitoringRuleController extends BaseAction {
    @Autowired
    private IMonitoringRuleService monitoringRuleService;

    /**
     * 查询监控规则列表
     */
    @GetMapping("/list")
    public TableDataInfo monitoringRuleList(MonitoringRuleQueryVo queryVo) {
        startPage();
        List<MonitoringRule> monitoringRuleList = monitoringRuleService.getMonitoringRuleList(queryVo);
        list.forEach(i -> {
            i.setDescription(MonitoringRuleConvUtil(i.getDescription()));
            i.setTriggerCondition(MonitoringRuleConvUtil(i.getTriggerCondition()));
        });
        PageInfo<MonitoringRule> pageInfo = new PageInfo<>(list);
        return RespResult.pageResult(list, pageInfo.getTotal());
    }

    @PostMapping
    public RespResult addMonitoringRule(@Valid @RequestBody MonitoringRuleAddVo addVo) {
        monitoringRuleService.saveMonitoringRule(addVo);
        return RespResult.success();
    }

    public RespResult listmonitoringRule(MonitoringRule monitoringRule) {
        List<MonitoringRule> list = monitoringRuleService.getMonitoringRuleList(monitoringRule);
        return RespResult.success(list);
    }

    @DeleteMapping("/{ruleIds}")
    public RespResult delmonitoringRule(@PathVariable Integer[] ruleIds) {
        monitoringRuleService.deleteMonitoringRuleByRuleIds(ruleIds);
        return RespResult.success();
    }

    @PutMapping
    public RespResult updatemonitoringRule(@Valid @RequestBody MonitoringRule monitoringRule) {
        monitoringRuleService.updateMonitoringRule(monitoringRule);
        return RespResult.success();
    }

    @PostMapping("/export")
    public void exportMonitoringRule(HttpServletResponse response, MonitoringRule monitoringRule) {
```

```
List<MonitoringRule> list = monitoringRuleService.getMonitoringRuleList(monitoringRule);

list.forEach(i -> {
    i.setDescription(MonitoringRuleExportFormat(i.getDescription));
    i.setTriggerCondition(MonitoringRuleExportFormat(i.getTriggerCondition));
});

ExcelUtil<MonitoringRule> excelUtil = new ExcelUtil<MonitoringRule>(MonitoringRule.class);

util.exportExcel(response, list, "监控规则数据");
}

@GetMapping(value =("/{ruleId}")
public RespResult getruleId(@PathVariable("ruleId") Integer ruleId){
    return RespResult.success(monitoringRuleService.getMonitoringRuleByRuleId(ruleId));
}

}

package com.chengyu.amlias.entity;
import com.baomidou.mybatisplus.annotation.IdType;
import com.baomidou.mybatisplus.annotation.TableField;
import com.baomidou.mybatisplus.annotation.TableId;
import com.baomidou.mybatisplus.annotation.TableName;
import com.fasterxml.jackson.annotation.JsonFormat;
import com.fasterxml.jackson.annotation.JsonIgnore;
import com.fasterxml.jackson.annotation.JsonIgnoreProperties;
import lombok.Data;
import org.springframework.web.multipart.MultipartFile;
import java.io.Serializable;

@Data
@TableName("b_user")
public class User implements Serializable {
    public static final int NormalUser = 1;
    public static final int DemoUser = 2;
    public static final int AdminUser = 3;

    @TableId(value = "id",type = IdType.AUTO)
    public String id;
    @TableField
    public String username;
    @TableField
    public String password;
    @TableField(exist = false)
    public String rePassword;
    @TableField
    public String nickname;
    @TableField
    public String mobile;
    @TableField
    public String email;
    @TableField
```

```
    public String description;
    @TableField
    public String role;
    @TableField
    public String status;
    @TableField
    public String score;
    @TableField
    public String avatar;
    @TableField(exist = false)
    public MultipartFile avatarFile;
    @TableField
    public String token;
    @TableField
    public String createTime;
    @TableField
    public String pushEmail;
    @TableField
    public String pushSwitch;
}

package com.chengyu.amlias.controller;
import com.chengyu.amlias.common.APIResponse;
import com.chengyu.amlias.common.ResponseCode;
import com.chengyu.amlias.entity.User;
import com.chengyu.amlias.permission.Access;
import com.chengyu.amlias.permission.AccessLevel;
import com.chengyu.amlias.service.UserService;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.beans.factory.annotation.Value;
import org.springframework.transaction.annotation.Transactional;
import org.springframework.util.DigestUtils;
import org.springframework.util.StringUtils;
import org.springframework.web.bind.annotation.*;
import org.springframework.web.multipart.MultipartFile;
import java.io.File;
import java.io.IOException;
import java.util.List;
import java.util.UUID;
/**
 * 登录注册
 */
@RestController
@RequestMapping("/user")
public class UserController {
    private final static Logger logger = LoggerFactory.getLogger(UserController.class);
    String salt = "abc_d1%23#4";
```

```
@Autowired
UserService userService;

@Value("${File.uploadPath}")
private String uploadPath;

@RequestMapping(value = "/list", method = RequestMethod.GET)
public APIResponse list(String keyword){
    List<User> list = userService.getUserList(keyword);
    return new APIResponse(ResponseCode.SUCCESS, "查询成功", list);
}

@RequestMapping(value = "/detail", method = RequestMethod.GET)
public APIResponse detail(String userId){
    User user = userService.getUserDetail(userId);
    return new APIResponse(ResponseCode.SUCCESS, "查询成功", user);
}

// 后台用户登录
@RequestMapping(value = "/login", method = RequestMethod.POST)
public APIResponse login(User user){
    user.setPassword(DigestUtils.md5DigestAsHex((user.getPassword() + salt).getBytes()));
};

    User responseUser = userService.getAdminUser(user);
    if(responseUser != null) {
        return new APIResponse(ResponseCode.SUCCESS, "查询成功", responseUser);
    }else {
        return new APIResponse(ResponseCode.FAIL, "用户名或密码错误");
    }
}

// 普通用户登录
@RequestMapping(value = "/userLogin", method = RequestMethod.POST)
public APIResponse userLogin(User user){
    user.setPassword(DigestUtils.md5DigestAsHex((user.getPassword() + salt).getBytes()));
};

    User responseUser = userService.getNormalUser(user);
    if(responseUser != null) {
        return new APIResponse(ResponseCode.SUCCESS, "查询成功", responseUser);
    }else {
        return new APIResponse(ResponseCode.FAIL, "用户名或密码错误");
    }
}

// 普通用户注册
@RequestMapping(value = "/userRegister", method = RequestMethod.POST)
@Transactional
public APIResponse userRegister(User user) throws IOException {
    if (!StringUtils.isEmpty(user.getUsername())
        && !StringUtils.isEmpty(user.getPassword()))
```

```
        && !StringUtils.isEmpty(user.getRePassword())) {
// 查重
if(userService.getUserByUserName(user.getUsername()) != null) {
    return new APIResponse(ResponseCode.FAIL, "用户名重复");
}
// 验证密码
if(!user.getPassword().equals(user.getRePassword())) {
    return new APIResponse(ResponseCode.FAIL, "密码不一致");
}
String md5Str = DigestUtils.md5DigestAsHex((user.getPassword() + salt).getBytes());

// 设置密码
user.setPassword(md5Str);
md5Str = DigestUtils.md5DigestAsHex((user.getUsername() + salt).getBytes());
// 设置 token
user.setToken(md5Str);

String avatar = saveAvatar(user);
if(!StringUtils.isEmpty(avatar)) {
    user.avatar = avatar;
}
// 设置角色
user.setRole(String.valueOf(User.NormalUser));
// 设置状态
user.setStatus("0");
user.setCreateTime(String.valueOf(System.currentTimeMillis()));
userService.createUser(user);
return new APIResponse(ResponseCode.SUCCESS, "创建成功");
}
return new APIResponse(ResponseCode.FAIL, "创建失败");
}

@Access(level = AccessLevel.ADMIN)
@RequestMapping(value = "/create", method = RequestMethod.POST)
@Transactional
public APIResponse create(User user) throws IOException {
    if (!StringUtils.isEmpty(user.getUsername()) || !StringUtils.isEmpty(user.getPassword())) {
// 查重
if(userService.getUserByUserName(user.getUsername()) != null) {
    return new APIResponse(ResponseCode.FAIL, "用户名重复");
}
String md5Str = DigestUtils.md5DigestAsHex((user.getPassword() + salt).getBytes());

// 设置密码
user.setPassword(md5Str);
md5Str = DigestUtils.md5DigestAsHex((user.getUsername() + salt).getBytes());
// 设置 token
user.setToken(md5Str);
user.setCreateTime(String.valueOf(System.currentTimeMillis()));
```



```
        String avatar = saveAvatar(user);
        if(!StringUtils.isEmpty(avatar)) {
            user.avatar = avatar;
        }
        userService.createUser(user);
        return new APIResponse(ResponseCode.SUCCESS, "创建成功");
    }
    return new APIResponse(ResponseCode.FAIL, "创建失败");
}

@Access(level = AccessLevel.ADMIN)
@RequestMapping(value = "/delete", method = RequestMethod.POST)
public APIResponse delete(String ids) {
    System.out.println("ids===" + ids);
    // 批量删除
    String[] arr = ids.split(",");
    for (String id : arr) {
        userService.deleteUser(id);
    }
    return new APIResponse(ResponseCode.SUCCESS, "删除成功");
}

@Access(level = AccessLevel.ADMIN)
@RequestMapping(value = "/update", method = RequestMethod.POST)
@Transactional
public APIResponse update(User user) throws IOException {
    // update 不能修改密码, 故置空
    user.setPassword(null);
    String avatar = saveAvatar(user);
    if(!StringUtils.isEmpty(avatar)) {
        user.avatar = avatar;
    }
    userService.updateUser(user);
    System.out.println(user);
    return new APIResponse(ResponseCode.SUCCESS, "更新成功");
}

@Access(level = AccessLevel.LOGIN)
@RequestMapping(value = "/updateUserInfo", method = RequestMethod.POST)
@Transactional
public APIResponse updateUserInfo(User user) throws IOException {
    User tmpUser = userService.getUserDetail(user.getId());
    if(tmpUser.getRole().equals(String.valueOf(User.NormalUser))) {
        // username 和 password 不能改, 故置空
        user.setUsername(null);
        user.setPassword(null);
        user.setRole(String.valueOf(User.NormalUser));
        String avatar = saveAvatar(user);
        if(!StringUtils.isEmpty(avatar)) {
```

```
        user.avatar = avatar;
    }
    userService.updateUser(user);
    return new APIResponse(ResponseCode.SUCCESS, "更新成功");
} else {
    return new APIResponse(ResponseCode.FAIL, "非法操作");
}
}

@Access(level = AccessLevel.LOGIN)
@RequestMapping(value = "/updatePwd", method = RequestMethod.POST)
@Transactional
public APIResponse updatePwd(String userId, String password, String newPassword) throws IOException {
    User user = userService.getUserDetail(userId);
    if (user.getRole().equals(String.valueOf(User.NormalUser))) {
        String md5Pwd = DigestUtils.md5DigestAsHex((password + salt).getBytes());
        if (user.getPassword().equals(md5Pwd)) {
            user.setPassword(DigestUtils.md5DigestAsHex((newPassword + salt).getBytes()));
            userService.updateUser(user);
        } else {
            return new APIResponse(ResponseCode.FAIL, "原密码错误");
        }
        return new APIResponse(ResponseCode.SUCCESS, "更新成功");
    } else {
        return new APIResponse(ResponseCode.FAIL, "非法操作");
    }
}

public String saveAvatar(User user) throws IOException {
    MultipartFile file = user.getAvatarFile();
    String newFileName = null;
    if (file != null && !file.isEmpty()) {
        // 存文件
        String oldFileName = file.getOriginalFilename();
        String randomStr = UUID.randomUUID().toString();
        newFileName = randomStr + oldFileName.substring(oldFileName.lastIndexOf("."));
        String filePath = uploadPath + File.separator + "avatar" + File.separator + newFileName;
        File destFile = new File(filePath);
        if (!destFile.getParentFile().exists()) {
            destFile.getParentFile().mkdirs();
        }
        file.transferTo(destFile);
    }
    if (!StringUtils.isEmpty(newFileName)) {
        user.avatar = newFileName;
    }
}
```

```
        return newFileName;
    }
}

package com.chengyu.amlias.modules.admin.controller;
import com.chengyu.amlias.common.annotation.SysLog;
import com.chengyu.amlias.common.utils.result.RetResponse;
import com.chengyu.amlias.modules.admin.service.SysProgramServiceImpl;
import io.swagger.annotations.Api;
import io.swagger.annotations.ApiImplicitParam;
import io.swagger.annotations.ApiImplicitParams;
import io.swagger.annotations.ApiOperation;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.RestController;
import javax.annotation.Resource;

@RestController
@RequestMapping("/sys/service")
@Api(tags = "系统服务")
public class SysProgramServiceController {

    @Resource
    private SysProgramServiceImpl sysProgramService;

    @SysLog(value = "基础服务状态获取", isSaveDatabase = true)
    @ApiOperation(value = "基础服务状态获取")
    @GetMapping(value = "/status")
    public RetResponse searchServiceStatus() {
        return RetResponse.success(sysProgramService.getServiceStatus());
    }

    @SysLog(value = "重启服务", isSaveDatabase = true)
    @ApiOperation(value = "重启服务")
    @ApiImplicitParams({
        @ApiImplicitParam(paramType = "query", name = "serviceType", value = "服务类型, 如 data/mysql", dataType = "String")
    })
    @GetMapping(value = "/reboot")
    public RetResponse searchTimeSetting(@RequestParam String serviceType) {
        boolean success = sysProgramService.restartService(serviceType);
        return success ? RetResponse.success() : RetResponse.error("重启失败");
    }

    @SysLog(value = "系统资源获取", isSaveDatabase = true)
    @ApiOperation(value = "系统资源获取")
    @GetMapping(value = "/resource")
    public RetResponse searchSystemResource() {
        return RetResponse.success(sysProgramService.systemResource());
    }
}
```

```
package com.chengyu.amlias.modules.admin.controller;
import com.baomidou.mybatisplus.core.conditions.query.LambdaQueryWrapper;
import com.chengyu.amlias.common.annotation.SysLog;
import com.chengyu.amlias.common.constant.SystemConstant;
import com.chengyu.amlias.common.utils.OAuth2UserUtils;
import com.chengyu.amlias.common.utils.result.RetResponse;
import com.chengyu.amlias.common.utils.result.RunLog;
import com.chengyu.amlias.modules.admin.entity.SysRoleEntity;
import com.chengyu.amlias.modules.admin.service.SysRoleServiceImpl;
import io.swagger.annotations.Api;
import io.swagger.annotations.ApiOperation;
import io.swagger.annotations.ApiParam;
import lombok.extern.slf4j.Slf4j;
import org.apache.commons.lang3.StringUtils;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.RestController;
import java.util.Arrays;
import java.util.List;
import java.util.stream.Collectors;
@Slf4j
@RestController
@RequestMapping("/sys/role")
@Api(tags = "角色管理")
public class SysRoleController {

    @Autowired
    private SysRoleServiceImpl sysRoleService;

    @SysLog(value = "角色列表", isSaveDatabase = true)
    @ApiOperation(value = "角色列表", notes = "角色列表, 分页展示")
    @RequestMapping(value = "/list", method = RequestMethod.GET)
    public RetResponse queryPageList(
        SysRoleEntity role,
        @RequestParam(name = "pageNo", defaultValue = "1") Integer pageNo,
        @RequestParam(name = "pageSize", defaultValue = "10") Integer pageSize) {
        return RetResponse.success(sysRoleService.searchRoleListPage(role, pageNo, pageSi
ze));
    }

    @SysLog(value = "添加角色", isSaveDatabase = true)
    @ApiOperation(value = "添加角色")
    @RequestMapping(value = "/add", method = RequestMethod.POST)
    public RetResponse add(@RequestBody SysRoleEntity role) {
        try {
            role.setCreateBy(OAuth2UserUtils.getOAuthUserName());
            sysRoleService.save(role);
        }
    }
}
```

```
        return RetResponse.success();
    } catch (Exception e) {
        log.error(e.getMessage(), e.fillInStackTrace());
        return RetResponse.error("操作失败");
    }
}

@SysLog(value = "编辑角色", isSaveDatabase = true)
@ApiOperation(value = "编辑角色")
@RequestMapping(value = "/edit", method = RequestMethod.PUT)
public RetResponse edit(@RequestBody SysRoleEntity role) {
    SysRoleEntity sysRole = sysRoleService.getById(role.getId());
    if (sysRole == null) {
        return RetResponse.error("角色不存在");
    }
    if (sysRole.getSysDefault() == SystemConstant.SysDefaultEnum.DEFAULT_0.getCode())
    {
        return RetResponse.error("系统默认角色，不能修改");
    }
    boolean ok = sysRoleService.updateById(role);
    if (ok) {
        return RetResponse.success();
    }
    return RetResponse.error();
}

@SysLog(value = "删除角色", isSaveDatabase = true)
@ApiOperation(value = "删除角色", notes = "通过 id 删除角色")
@RequestMapping(value = "/delete", method = RequestMethod.DELETE)
public RetResponse delete(@ApiParam(value = "角色 id") @RequestParam(name = "id") Long
id) {
    try {
        sysRoleService.deleteRole(id);
        return RetResponse.success();
    } catch (Exception e) {
        log.error(e.getMessage(), e.fillInStackTrace());
        return RetResponse.error(e.getMessage());
    }
}

@SysLog(value = "批量删除", isSaveDatabase = true, readRunLog = true)
@ApiOperation(value = "批量删除", notes = "批量删除角色")
@RequestMapping(value = "/deleteBatch", method = RequestMethod.DELETE)
public RetResponse deleteBatch(@ApiParam(value = "角色 ids, 多个 id 之间用逗号分割") @Re
questParam(name = "ids") String ids) {
    if (StringUtils.isEmpty(ids)) {
        return RetResponse.error("未选中角色!");
    }
    List<Long> idList = Arrays.stream(ids.split(",")).map(Long::parseLong).collect(Co
llectors.toList());
```

```

List<SysRoleEntity> list = sysRoleService.list(new LambdaQueryWrapper<SysRoleEntity>()
    .select(SysRoleEntity::getId, SysRoleEntity::getRoleName).in(SysRoleEntity::getId, idList));
    if (list != null && list.size() > 0) {
        sysRoleService.deleteBatchRole(list.stream().map(SysRoleEntity::getId).collect(Collectors.toList()));
    }
    return RetResponse.successWithLog(RunLog.create(list));
}

@SysLog(value = "查询所有的角色", isSaveDatabase = true)
@ApiOperation(value = "查询所有的角色")
@RequestMapping(value = "/queryall", method = RequestMethod.GET)
public RetResponse queryAll(@RequestParam(name = "systemCode", defaultValue = "002")
String systemCode) {
    return RetResponse.success(sysRoleService.selectRoleList(systemCode));
}

@SysLog(value = "查询角色所属类型列表", isSaveDatabase = true)
@ApiOperation(value = "查询角色所属类型列表")
@RequestMapping(value = "/search_role_classify", method = RequestMethod.GET)
public RetResponse searchRoleClassify() {
    return RetResponse.success(sysRoleService.searchRoleClassifyList());
}
}

package com.chengyu.amlias.common.base.result;
import io.swagger.v3.oas.annotations.media.Schema;
import lombok.Data;
import java.util.HashMap;
import java.util.Map;
@Data
public class Ret {
    @Schema(description = "是否成功")
    private Boolean success;

    @Schema(description = "返回码")
    private Integer code;

    @Schema(description = "返回消息")
    private String message;

    @Schema(description = "返回数据")
    private Map<String, Object> data = new HashMap<String, Object>();

    private Ret() {}

    public static Ret ok() {
        Ret r = new Ret();
        r.setSuccess(Ret resultCode.SUCCESS.getSuccess());
    }
}

```

```
        r.setCode(Ret resultCode.SUCCESS.getCode());
        r.setMessage(Ret resultCode.SUCCESS.getMessage());
        return r;
    }

    public static Ret error() {
        Ret r = new Ret();
        r.setSuccess(false);
        r.setCode(Ret resultCode.UNKNOWN_RetEASON.getCode());
        r.setMessage("失败");
        return r;
    }

    public static Ret setResult(Ret resultCode) {
        Ret r = new Ret();
        r.setSuccess(resultCode.isSuccess());
        r.setCode(resultCode.getCode());
        r.setMessage(resultCode.getMessage());
        return r;
    }

    public Ret success(Boolean success) {
        this.setSuccess(success);
        return this;
    }

    public Ret message(String message) {
        this.setMessage(message);
        return this;
    }

    public Ret code(Integer code) {
        this.setCode(code);
        return this;
    }

    public Ret data(String key, Object value) {
        this.data.put(key, value);
        return this;
    }

    public Ret data(Map<String, Object> map) {
        this.setData(map);
        return this;
    }
}

package com.chengyu.amlias.common.base.result;
import lombok.Getter;
import lombok.Setter;
@Getter
```

```
public enum RetesultCode {
    SUCCESS(true, 20000, "成功"),
    UNNOWN_RetEASON(false, 20001, "未知错误"),
    BAD_SQL_GRetAMMARet(false, 21001, "sql 语法错误"),
    JSON_PARetSE_ERetRetORet(false, 21002, "json 解析异常"),
    PARetAM_ERetRetORet(false, 21003, "参数不正确"),
    FILE_UPLOAD_ERetRetORet(false, 21004, "文件上传错误"),
    FILE_DELETE_ERetRetORet(false, 21005, "文件删除错误"),
    EXCEL_DATA_IMPORetT_ERetRetORet(false, 21006, "Excel 数据导入错误"),
    VIDEO_UPLOAD_ALIYUN_ERetRetORet(false, 22001, "文件上传阿里云失败"),
    VIDEO_UPLOAD_TOMCAT_ERetRetORet(false, 22002, "文件上传 tomcat 失败"),
    VIDEO_DELETE_ALIYUN_ERetRetORet(false, 22003, "阿里云文件视频删除失败"),
    FETCH_VIDEO_UPLOADAUTH_ERetRetORet(false, 22004, "获取上传地址和凭证失败"),
    FETCH_PLAYAUTH_ERetRetORet(false, 22005, "获取播放凭证失败"),
    URetL_ENCODE_ERetRetORet(false, 23001, "URetL 编码失败"),
    ILLEGAL_CALLBACK_RetEQUEST_ERetRetORet(false, 23002, "非法回调请求"),
    FETCH_ACCESS_TOKEN_FAILED(false, 23003, "获取 accessToken 失败"),
    FETCH_USERetINFO_ERetRetORet(false, 23004, "获取用户信息失败"),
    LOGIN_ERetRetORet(false, 23005, "登录失败"),
    COMMENT_EMPTH(false, 24006, "评论内容必须填写"),
    PAY_RetUN(false, 25000, "支付中"),
    PAY_UNIFIED_ERetRetORet(false, 25001, "统一下单错误"),
    PAY_ORetDERetQUERetY_ERetRetORet(false, 25002, "查询支付结果错误"),
    ORetDERet_EXIST_ERetRetORet(false, 25003, "课程已购买"),
    GATEWAY_ERetRetORet(false, 26000, "服务无法访问"),
    CODE_ERetRetORet(false, 28000, "验证码错误"),
    LOGIN_PHONE_ERetRetORet(false, 28001, "手机号码不正确"),
    LOGIN_ACCOUNT_ERetRetORet(false, 28002, "账号不正确"),
    LOGIN_PASSWORetD_ERetRetORet(false, 28008, "密码不正确"),
    LOGIN_DISABLED_ERetRetORet(false, 28004, "该账号已禁用"),
    RetEGISTERet_MOBLE_ERetRetORet(false, 28005, "手机号已注册"),
    RetEGISTERet_NICKNAME_ERetRetORet(false, 28006, "昵称重复"),
    LOGIN_AUTH(false, 28007, "需要登录"),
    LOGIN_ACL(false, 28008, "没有权限"),
    SMS_SEND_ERetRetORet(false, 28009, "短信发送失败"),
    SMS_SEND_ERetRetORet_BUSINESS_LIMIT_CONTRetOL(false, 28010, "短信发送频繁");
    private Boolean success;
    private Integer code;
    private String message;
    RetesultCode(Boolean success, Integer code, String message) {
        this.success = success;
        this.code = code;
        this.message = message;
    }
}

package com.chengyu.amlias.mapper;
import java.util.List;
import com.chengyu.amlias.domain.Account;
import com.baomidou.mybatisplus.core.mapper.BaseMapper;
/**
```



```
* 账户信息 Dao 接口
*/
public interface AccountMapper extends BaseMapper<Account>{
    /**
     * 新增账户信息
     *
     * @param account 账户信息
     * @return
     */
    int insertAccount(Account account);

    /**
     * 修改账户信息
     *
     * @param account 账户信息
     * @return
     */
    int updateAccount(Account account);

    /**
     * 查询账户信息列表
     *
     * @param accountId 账户信息主键
     * @return
     */
    Account selectAccountByAccountId(Integer accountId);

    /**
     * 根据条件查询账户信息
     */
    List<AccountVo> selectByCondition(AccountQueryDto queryAccountDto);

    /**
     * 删除账户信息
     * @param accountId 账户信息主键
     * @return
     */
    int deleteAccountByAccountId(Integer accountId);

    /**
     * 批量删除账户信息
     * @param accountIds ID 集合
     * @return
     */
    int deleteAccountByAccountIds(Integer[] accountIds);
}

package com.chengyu.amlias.common.readcsv;
import org.apache.flume.Event;
import org.apache.flume.event.EventBuilder;
```

```

import java.io.IOException;
import java.nio.file.*;
import java.io.*;
import java.util.HashMap;
import java.util.Map;
@Service
@Slf4j
public class WatchServiceResp {
    public static void watch() {
        try {
            File dir = new File("/home/tmp/wathl0");
            Path dirPath = dir.toPath();
            WatchService watchService = FileSystems.getDefault().newWatchService();
            dirPath.register(watchService, StandardWatchEventKinds.ENTRY_CREATE,
                StandardWatchEventKinds.ENTRY_DELETE, StandardWatchEventKinds.ENTRY_MODIF
Y);

            Map<String, BufferedReader> readers = new HashMap<>();
            Map<String, Long> lastLengths = new HashMap<>();
            int count = 0;
            while (true) {
                WatchKey watchKey = watchService.take();
                for (WatchEvent<?> event : watchKey.pollEvents()) {
                    if (event.kind() == StandardWatchEventKinds.ENTRY_MODIFY) {
                        Path filePath = dirPath.resolve((Path) event.context());
                        if (filePath.toString().endsWith(".csv")) {
                            File file = filePath.toFile();
                            long length = file.length();
                            if (!readers.containsKey(filePath.toString())) {
                                RandomAccessFile raf = new RandomAccessFile(file, "r");
                                readers.put(filePath.toString(),
                                    new BufferedReader(new InputStreamReader(new FileInpu
tStream(raf.getFD()), "GBK")));
                                lastLengths.put(filePath.toString(), 0L);
                            }
                            BufferedReader reader = readers.get(filePath.toString());
                            long lastLength = lastLengths.get(filePath.toString());
                            if (length > lastLength) {
                                RandomAccessFile raf = new RandomAccessFile(file, "r");
                                raf.seek(lastLength);
                                reader = new BufferedReader(new InputStreamReader(new Fil
eInputStream(raf.getFD()), "GBK"));
                                String line;
                                while ((line = reader.readLine()) != null) {
                                    log.info("New data in " + filePath + ": " + line);
                                    count++;
                                }
                                lastLengths.put(filePath.toString(), length);
                            }
                        }
                    }
                }
            }
        }
    }
}

```

```
        }
        if (!watchKey.reset()) {
            break;
        }
        log.info("New data count " + count);
    }
    for (BufferedReader reader : readers.values()) {
        reader.close();
    }
} catch (Exception e) {
    log.info("watch response error",e);
}
}

}

package com.chengyu.amlias.common.schema;
import io.netty.buffer.ByteBuf;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import java.util.Map;
import java.util.Map.Entry;
public abstract class MapSchema<K, V> extends BasicField<Entry<K, V>> {
    public final Logger log = LoggerFactory.getLogger(this.getClass().getSimpleName());
    public final Schema<K> keySchema;
    public final int lengthUnit;
    public final IntTool intTool;
    public final Map<K, Schema> valueSchema;

    public MapSchema(Schema<K> keySchema, int lengthUnit) {
        this.keySchema = keySchema;
        this.lengthUnit = lengthUnit;
        this.intTool = IntTool.getInstance(lengthUnit);
        PrepareLoadStrategy<K> loadStrategy = new PrepareLoadStrategy<>();
        addSchemas(loadStrategy);
        this.valueSchema = loadStrategy.build();
    }

    protected abstract void addSchemas(PrepareLoadStrategy<K> schemaRegistry);

    @Override
    public KeyValuePair<K, V> readFrom(ByteBuf input) {
        K key = keySchema.readFrom(input);
        KeyValuePair<K, V> result = new KeyValuePair<>(key);

        int length = intTool.read(input);
        if (length > 0) {
            int writerIndex = input.writerIndex();
            input.writerIndex(input.readerIndex() + length);

            Schema<V> schema = valueSchema.get(key);
            if (schema != null) {
```

```
        V value = schema.readFrom(input, length);
        result.setValue(value);
    } else {
        byte[] bytes = new byte[length];
        input.readBytes(bytes);
        result.setValue((V) bytes);
    }
    input.writerIndex(writerIndex);

    } else if (length < 0) {
        Schema<V> schema = valueSchema.get(key);
        if (schema != null) {
            V value = schema.readFrom(input);
            result.setValue(value);
        } else {
            byte[] bytes = new byte[input.readableBytes()];
            input.readBytes(bytes);
            result.setValue((V) bytes);
        }
    }
    return result;
}

@Override
public void writeTo(ByteBuf output, Entry<K, V> entry) {
    if (entry == null)
        return;
    K key = entry.getKey();
    keySchema.writeTo(output, key);

    Schema schema = valueSchema.get(key);
    if (schema != null) {
        int begin = output.writerIndex();
        intTool.write(output, 0);

        Object value = entry.getValue();
        if (value != null) {
            schema.writeTo(output, value);
            int length = output.writerIndex() - begin - lengthUnit;
            intTool.set(output, begin, length);
        }
    } else {
        log.warn("未注册的信息:ID[{}], Value[{}]", key, entry.getValue());
    }
}

}

package com.chengyu.amlias.service.impl;
import com.baomidou.mybatisplus.extension.service.impl.ServiceImpl;
import com.chengyu.amlias.mapper.InvestigationRecordMapper;
import com.chengyu.amlias.domain.InvestigationRecord;
```

```
import com.chengyu.amlas.service.IInvestigationRecordService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.List;

@Service
public class InvestigationRecordServiceImpl extends ServiceImpl<InvestigationRecordMapper,
InvestigationRecord> implements IInvestigationRecordService{
    @Autowired
    private InvestigationRecordMapper investigationRecordMapper;

    @Override
    public InvestigationRecord getInvestigationRecordByRecordId(Integer recordId) {
        return investigationRecordMapper.selectInvestigationRecordByRecordId(recordId);
    }

    @Override
    public List<InvestigationRecord> listInvestigationRecord(InvestigationRecord investig
ationRecord) {
        return investigationRecordMapper.selectInvestigationRecordList(investigationReco
rd);
    }

    @Transactional
    @Override
    public int saveInvestigationRecord(InvestigationRecord investigationRecord) {
        return investigationRecordMapper.insertInvestigationRecord(investigationRecord);
    }

    private void checkExisted(InvestigationRecordEntity entity) {
        InvestigationRecordEntity existEntity = getOne(
            Wrappers.lambdaQuery(InvestigationRecordEntity.class)
                .eq(InvestigationRecordEntity::getRecordId, entity.getRecordId)
                .false);
        if (existEntity != null && !existEntity.getId().equals(entity.getId())) {
            throw new BizException("调查记录记录已存在!");
        }
    }

    @Override
    @Transactional
    public int delInvestigationRecordByRecordIds(Integer[] recordIds) {
        return investigationRecordMapper.deleteInvestigationRecordByRecordIds(recordIds);
    }

    private void investigationRecordData(List<InvestigationRecordDto> list) {
        List<String> list = list.stream().map(InvestigationRecordDto::getRecordId)
            .collect(Collectors.toList());
        list.stream().forEach(investigationRecord -> {
            InvestigationRecord investigationRecordEntry = entryInvestigationRecordMap.ge
t(investigationRecord.getRecordId);
```

```
        if (investigationRecordEntry != null) {
            investigationRecord.setInvestigationDate(InvestigationRecordTrans(investigationRecordEntry.getInvestigationDate()));
            investigationRecord.setFindings(InvestigationRecordTrans(investigationRecordEntry.getFindings()));
            investigationRecord.setAlertId(InvestigationRecordTrans(investigationRecordEntry.getAlertId()));
        }
    });
}

@Override
@Transactional
public int updateInvestigationRecord(InvestigationRecord investigationRecord) {
    return investigationRecordMapper.updateInvestigationRecord(investigationRecord);
}

@Override
@Transactional
public int delInvestigationRecordByRecordId(Integer recordId) {
    return investigationRecordMapper.deleteInvestigationRecordByRecordId(recordId);
}
}

package com.chengyu.amlias.mapper;
import java.util.List;
import com.chengyu.amlias.domain.MLModel;
import com.baomidou.mybatisplus.core.mapper.BaseMapper;
/**
 * 机器学习模型 Dao 接口
 */
public interface MLModelMapper extends BaseMapper<MLModel>{
    /**
     * 新增机器学习模型
     *
     * @param mMLModel 机器学习模型
     * @return
     */
    int insertMLModel(MLModel mMLModel);

    /**
     * 修改机器学习模型
     *
     * @param mMLModel 机器学习模型
     * @return
     */
    int updateMLModel(MLModel mMLModel);

    /**
     * 查询机器学习模型列表
     */
}
```

```
* @param modelId 机器学习模型主键
* @return
*/
MLModel selectMLModelByModelId(Integer modelId);

/**
 * 根据条件查询机器学习模型
 */
List<MLModelVo> selectByCondition(MLModelQueryDto queryMLModelDto);

/**
 * 删除机器学习模型
 * @param modelId 机器学习模型主键
 * @return
 */
int deleteMLModelByModelId(Integer modelId);

/**
 * 批量删除机器学习模型
 * @param modelIds ID 集合
 * @return
 */
int deleteMLModelByModelIds(Integer[] modelIds);
}

package com.chengyu.amlias.domain;
import java.math.BigDecimal;
import java.util.Date;
import com.fasterxml.jackson.annotation.JsonFormat;
import lombok.Data;
import com.chengyu.amlias.common.annotation.Excel;
import com.baomidou.mybatisplus.annotation.TableName;
import com.chengyu.amlias.common.core.domain.BaseEntity;
/**
 * 账户信息实体类
 */
@TableName("amlias_account")
@Data
public class Account extends BaseEntity {
    private static final long serialVersionUID = -3013597246319531187LL;
    // 账户 ID
    private Integer accountId;
    // 账户状态
    private String accountStatus;
    // 所属分行 ID
    private Integer branchId;
    // 账户余额
    private BigDecimal balance;
    // 客户 ID
    private Integer customerId;
```

```
// 创建时间
private Date createdAt;
// 销户日期
private String closeDate;
// 货币类型
private String currency;
// 账户类型
private String accountType;
// 监控原因
private String monitorReason;
// 是否被监控
private Integer isMonitored;
// 账户号码
private String accountNumber;
// 更新时间
private Date updatedAt;
// 开户日期
private String openDate;
}

package com.chengyu.amlias.controller;
import com.chengyu.amlias.common.constants.Constants;
import com.chengyu.amlias.common.entity.*;
import com.chengyu.amlias.common.entity.model.JsonResponse;
import com.chengyu.amlias.common.entity.model.TablePageForm;
import com.chengyu.amlias.protocol.JobExecuteKind;
import org.apache.commons.lang3.StringUtils;
import org.springframework.beans.factory.annotation.Qualifier;
import org.springframework.http.HttpStatus;
import com.chengyu.amlias.common.entity.model.TableResponse;
import com.chengyu.amlias.common.entity.vo.HeraActionVo;
import com.chengyu.amlias.common.entity.vo.HeraGroupVo;
import com.chengyu.amlias.common.entity.vo.HeraJobVo;
import com.chengyu.amlias.common.entity.vo.PageHelperTimeRange;
import com.chengyu.amlias.common.enums.*;
import com.chengyu.amlias.common.exception.NoPermissionException;
import com.chengyu.amlias.common.service.*;
import com.chengyu.amlias.common.util.ActionUtil;
import com.chengyu.amlias.logs.MonitorLog;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.*;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.*;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.TimeoutException;
import java.util.stream.Collectors;
/**
 * 调度中心管理
 */
@Controller
```



```
@RequestMapping("/scheduleCenter")
```

```
public class ScheduleCenterController extends BaseHeraController {
```

```
    private final HeraJobService heraJobService;
    private final HeraJobActionService heraJobActionService;
    private final HeraGroupService heraGroupService;
    private final HeraJobHistoryService heraJobHistoryService;
    private final HeraJobMonitorService heraJobMonitorService;
    private final HeraUserService heraUserService;
    private final HeraPermissionService heraPermissionService;
    private final WorkClient workClient;
    private final HeraHostGroupService heraHostGroupService;
    private final HeraAreaService heraAreaService;
    private final HeraSsoService heraSsoService;
```

```
    private void encryption(Map<String, String> config) {
        Optional.ofNullable(config)
            .ifPresent(cxf -> cxf.entrySet()
                .stream()
                .filter(pair -> pair.getKey().toLowerCase().contains(Constants.PA
SSWORD_WORD))
                .forEach(entry -> entry.setValue("*****")));
    }
```

```
    /**
     * 组下搜索任务
     *
     * @param groupId groupId
     * @param status all:全部;
     * @param pageForm layui table 分页参数
     * @return 结果
     */
```

```
@RequestMapping(value = "/getGroupTask", method = RequestMethod.GET)
```

```
@ResponseBody
```

```
@ApiOperation(value = "某组下搜索任务")
```

```
    public TableResponse getGroupTask(@ApiParam(value = "组 Id", required = true) String groupId,
```

```
                                       @ApiParam(value = "任务状态") String status,
```

```
                                       @ApiParam(value = "日期", required = true) String date,
```

```
                                       @ApiParam(value = "分页参数", required = true) TablePageForm pageForm) {
```

```
        List<HeraGroup> group = heraGroupService.findDownStreamGroup(StringUtil.getId(groupId));
```

```
        Set<Integer> groupSet = group.stream().map(HeraGroup::getId).collect(Collectors.toSet());
```

```
        List<HeraJob> jobList = heraJobService.getAll();
```

```
        Set<Integer> jobIdSet = jobList.stream().filter(job -> groupSet.contains(job.getId()));
```

```
roupId()).map(HeraJob::getId).collect(Collectors.toSet());
    SimpleDateFormat format = new SimpleDateFormat("yyMMdd");
    Calendar calendar = Calendar.getInstance();
    String startDate;
    Date start;
    if (StringUtils.isBlank(dt)) {
        start = new Date();
    } else {
        try {
            start = format.parse(dt);
        } catch (ParseException e) {
            start = new Date();
        }
    }

    calendar.setTime(start);
    startDate = ActionUtil.getFormatterDate("yyyyMMdd", calendar.getTime());
    calendar.add(Calendar.DAY_OF_YEAR, +1);
    String endDate = ActionUtil.getFormatterDate("yyyyMMdd", calendar.getTime());
    List<GroupTaskVo> taskVos = heraJobActionService.findByJobIds(new ArrayList<>(job
    IdSet), startDate, endDate, pageForm, status);
    return new TableResponse(pageForm.getCount(), 0, taskVos);
}

public ScheduleCenterController(HeraJobMonitorService heraJobMonitorService,
    @Qualifier("heraJobMemoryService") HeraJobService heraJobService, HeraJobActionSe
    rvce heraJobActionService,
    @Qualifier("heraGroupMemoryService") HeraGroupService heraGroupService, HeraJobHi
    storyService heraJobHistoryService,
    HeraUserService heraUserService, HeraPermissionService heraPermissionService,
    WorkClient workClient, HeraHostGroupService heraHostGroupService, HeraAreaService
    heraAreaService, HeraSsoService heraSsoService) {
    this.heraJobMonitorService = heraJobMonitorService;
    this.heraJobService = heraJobService;
    this.heraJobActionService = heraJobActionService;
    this.heraGroupService = heraGroupService;
    this.heraJobHistoryService = heraJobHistoryService;
    this.heraUserService = heraUserService;
    this.heraPermissionService = heraPermissionService;
    this.workClient = workClient;
    this.heraHostGroupService = heraHostGroupService;
    this.heraAreaService = heraAreaService;
    this.heraSsoService = heraSsoService;
}

@RequestMapping(method = RequestMethod.GET)
@ApiOperation(value = "调度中心页面跳转")
public String login() {
    return "scheduleCenter/scheduleCenter.index";
}
```

```

@RequestMapping(value = "/init", method = RequestMethod.POST)
@ResponseBody
@ApiOperation(value = "获取任务树,包含我的任务和全部任务两个集合")
public JsonResponse initJobTree() {
    return new JsonResponse(true, Optional.of(heraJobService.buildJobTree(getOwner(),
Integer.parseInt(getSsoId()))).get());
}

@RequestMapping(value = "/getJobMessage", method = RequestMethod.GET)
@ResponseBody
@ApiOperation(value = "获取任务信息")
public JsonResponse getJobMessage(@ApiParam(value = "任务 ID", required = true) Integer jobId) {
    HeraJob job = heraJobService.findById(jobId);
    HeraJobVo heraJobVo = BeanConvertUtils.convert(job);
    heraJobVo.setInheritConfig(getInheritConfig(job.getGroupId()));
    HeraJobMonitor monitor = heraJobMonitorService.findById(jobId);
    StringBuilder focusUsers = new StringBuilder("[ ");
    Optional.ofNullable(monitor).ifPresent(m -> {
        if (StringUtils.isNotBlank(m.getUserIds())) {
            String ssoId = getSsoId();
            Arrays.stream(monitor.getUserIds().split(Constants.COMMA)).filter(StringUtils::isNotBlank).distinct().forEach(id -> {
                if (ssoId.equals(id)) {
                    heraJobVo.setFocus(true);
                    focusUsers.append(Constants.BLANK_SPACE).append(getSsoName());
                } else {
                    Optional.ofNullable(heraSsoService.findSsoById(Integer.parseInt(id)))
                        .ifPresent(sso -> focusUsers.append(Constants.BLANK_SPACE).
append(sso.getName()));
                }
            });
        }
    });
    focusUsers.append(" ]");
    Optional.ofNullable(heraHostGroupService.findById(job.getHostGroupId()))
        .ifPresent(group -> heraJobVo.setHostGroupName(group.getName()));
    heraJobVo.setUIIdS(getUIIds(jobId, RunAuthType.JOB));
    heraJobVo.setFocusUser(focusUsers.toString());
    heraJobVo.setAlarmLevel(AlarmLevel.getName(job.getOffset()));
    heraJobVo.setCycle(CycleEnum.parse(job.getCycle()).getDesc());
    configDecry(heraJobVo.getConfigs());
    configDecry(heraJobVo.getInheritConfig());
    //如果无权限,进行变量加密
    if (heraJobVo.getConfigs().keySet().stream().anyMatch(key -> key.toLowerCase().contains(Constants.PASSWORD_WORD))
        || heraJobVo.getInheritConfig().keySet().stream().anyMatch(key -> key.toLowerCase().contains(Constants.PASSWORD_WORD))) {

```

```

        try {
            checkPermission(jobId, RunAuthType.JOB);
        } catch (NoPermissionException e) {
            encryption(heraJobVo.getConfigs());
            encryption(heraJobVo.getInheritConfig());
        }
    }
    return new JsonResponse(true, heraJobVo);
}

@RunAuth(typeIndex = 1)
@GetMapping("/checkPermission")
@ResponseBody
@ApiOperation(value = "权限检测接口")
public JsonResponse doAspectAuth(@ApiParam(value = "任务 ID", required = true) Integer
jobId
    , @ApiParam(value = "检测类型", required = true) RunAuthType type) {
    return new JsonResponse(true, true);
}

private void configDecry(Map<String, String> config) {
    Optional.ofNullable(config)
        .ifPresent(cxf -> cxf.entrySet()
            .stream()
            .filter(pair -> pair.getKey().toLowerCase().contains(Constants.SE
CRET_PREFIX))
            .forEach(entry -> entry.setValue(PasswordUtils.aesDecrypt(entry.g
etValue()))));
}

@RequestMapping(value = "/getGroupMessage", method = RequestMethod.GET)
@ResponseBody
@ApiOperation(value = "获取组信息")
public JsonResponse getGroupMessage(@ApiParam(value = "组 ID", required = true) String
groupId) {
    Integer id = StringUtil.getGroupId(groupId);
    HeraGroup group = heraGroupService.findById(id);
    HeraGroupVo groupVo = BeanConvertUtils.convert(group);
    groupVo.setInheritConfig(getInheritConfig(groupVo.getParent()));
    groupVo.setUIIds(getUIIds(id, RunAuthType.GROUP));
    configDecry(groupVo.getConfigs());
    configDecry(groupVo.getInheritConfig());
    if (groupVo.getConfigs().keySet().stream().anyMatch(key -> key.toLowerCase().cont
ains(Constants.PASSWORD_WORD))
        || groupVo.getInheritConfig().keySet().stream().anyMatch(key -> key.toLow
erCase().contains(Constants.PASSWORD_WORD))) {
        try {

```

```

        checkPermission(id, RunAuthType.GROUP);
    } catch (NoPermissionException e) {
        encryption(groupVo.getConfigs());
        encryption(groupVo.getInheritConfig());
    }
}
return new JsonResponse(true, groupVo);
}

@RequestMapping(value = "/getJobOperator", method = RequestMethod.GET)
@ResponseBody
@RunAuth(typeIndex = 1)
@ApiOperation("获取任务管理员, admin 表示目前有权操作的用户")
public JsonResponse getJobOperator(@ApiParam(value = "任务/组 ID", required = true) String jobId,
                                   @ApiParam(value = "任务类型", required = true) RunAuthType type) {
    Integer groupId = StringUtil.getGroupId(jobId);
    List<HeraPermission> permissions = heraPermissionService.findByTargetId(groupId, type.getName(), 1);
    List<HeraUser> all = heraUserService.findAllName();
    if (all == null || permissions == null) {
        return new JsonResponse(false, "发生错误, 请联系管理员");
    }
    Map<String, Object> res = new HashMap<>(2);
    res.put("allUser", all);
    res.put("admin", permissions);
    return new JsonResponse(true, "查询成功", res);
}

@RequestMapping(value = "/getJobVersion", method = RequestMethod.GET)
@ResponseBody
@ApiOperation("获取任务的所有版本")
public JsonResponse getJobVersion(@ApiParam(value = "任务 ID", required = true) Long jobId) {
    return new JsonResponse(true, heraJobActionService.getActionVersionByJobId(jobId)
        .stream()
        .map(id -> HeraActionVo.builder().id(id).build())
        .collect(Collectors.toList()));
}

@RequestMapping(value = "/addJob", method = RequestMethod.POST)
@ResponseBody
@ApiOperation("新增任务")
@RunAuth(authType = RunAuthType.GROUP, idIndex = 1)
public JsonResponse addJob(@ApiParam(value = "任务信息", required = true) HeraJob herJob,
                           @ApiParam(value = "所在组目录", required = true) String pa

```

```
rentId) {
    heraJob.setGroupId(StringUtil.getGroupId(parentId));
    heraJob.setHostGroupId(HeraGlobalEnv.defaultWorkerGroup);
    heraJob.setOwner(getOwner());
    heraJob.setScheduleType(JobScheduleTypeEnum.Independent.getType());
    int insert = heraJobService.insert(heraJob);
    if (insert > 0) {
        addJobRecord(heraJob);
        return new JsonResponse(true, String.valueOf(heraJob.getId()));
    } else {
        return new JsonResponse(false, "新增失败");
    }
}

@PostMapping(value = "/copyJob")
@ResponseBody
@RunAuth(authType = RunAuthType.JOB)
@ApiOperation("复制任务接口")
public JsonResponse copyJob(
    @ApiParam(value = "复制的任务 ID", required = true) int jobId) {
    HeraJob copyJob = heraJobService.findById(jobId);
    copyJob.setName(copyJob.getName() + "_copy");
    copyJob.setOwner(getOwner());
    copyJob.setScheduleType(JobScheduleTypeEnum.Independent.getType());
    copyJob.setId(0);
    copyJob.setIsValid(0);
    int insert = heraJobService.insert(copyJob);
    if (insert > 0) {
        addJobRecord(copyJob);
        return new JsonResponse(true, String.valueOf(copyJob.getId()));
    } else {
        return new JsonResponse(false, "新增失败");
    }
}

private void addJobRecord(HeraJob heraJob) {
    String ssoName = getSsoName();
    String ownerId = getOwnerId();
    MonitorLog.info("{}[{}]【添加】任务{}成功", heraJob.getOwner(), ssoName, heraJob.getId());
    updateMonitor(heraJob.getId());
    doAsync(() -> addJobRecord(heraJob.getId(), heraJob.getName(), RecordTypeEnum.Add, ssoName, ownerId));
}

@RequestMapping(value = "/addMonitor", method = RequestMethod.POST)
@ResponseBody
@ApiOperation("任务添加监控")
public JsonResponse updateMonitor(@ApiParam(value = "任务 ID", required = true) Integer
```

```

    r id) {
        String ssoId = getSsoId();
        if (Constants.DEFAULT_ID.equals(ssoId)) {
            return new JsonResponse(false, "组账户不支持监控任务");
        }
        boolean res = heraJobMonitorService.addMonitor(ssoId, id);
        if (res) {
            MonitorLog.info("{} 【关注】任务{}成功", getSsoName(), id);
            return new JsonResponse(true, "关注成功");
        } else {
            return new JsonResponse(false, "系统异常，请联系管理员");
        }
    }

    @RequestMapping(value = "/addGroup", method = RequestMethod.POST)
    @ResponseBody
    @RunAuth(authType = RunAuthType.GROUP, idIndex = 1)
    @ApiOperation("添加组")
    public JsonResponse addJob(@ApiParam(value = "组信息", required = true) HeraGroup her
aGroup,
                                @ApiParam(value = "所在组 id", required = true) String pare
ntId) {
        heraGroup.setParent(StringUtil.getGroupId(parentId));
        heraGroup.setOwner(getOwner());
        heraGroup.setExisted(1);
        int insert = heraGroupService.insert(heraGroup);
        if (insert > 0) {
            MonitorLog.info("{} 【添加】组{}成功", getSsoName(), heraGroup.getId());
            return new JsonResponse(true, Constants.GROUP_PREFIX + heraGroup.getId());
        } else {
            return new JsonResponse(false, String.valueOf(-1));
        }
    }

    /**
     * 获取任务历史版本
     *
     * @param pageHelper
     * @return
     */
    @RequestMapping(value = "/getJobHistory", method = RequestMethod.GET)
    @ResponseBody
    @ApiOperation("任务历史记录")
    public JsonResponse getJobHistory(@ApiParam(value = "分页", required = true) PageHelp
erTimeRange pageHelper) {
        return new JsonResponse(true, heraJobHistoryService.findLogByPage(pageHelper));
    }

    @RequestMapping(value = "/getHostGroupIds", method = RequestMethod.GET)

```

```
@ResponseBody
@ApiOperation("获取机器组 Id")
public JsonResponse getHostGroupIds() {
    return new JsonResponse(true, heraHostGroupService.getAll());
}

@RequestMapping(value = "getLog", method = RequestMethod.GET)
@ResponseBody
@RunAuth()
@ApiOperation("获取任务日志接口")
public JsonResponse getJobLog(@ApiParam(value = "任务 ID", required = true) Integer id)
{
    return new JsonResponse(true, heraJobHistoryService.findLogById(id));
}

@RequestMapping(value = "jobInstLog", method = RequestMethod.GET)
@ResponseBody
@RunAuth()
@ApiOperation("获取任务日志接口")
public String jobInstLog(@ApiParam(value = "任务 ID", required = true) Integer id, Integer hisId) {
    return heraJobHistoryService.findLogById(hisId).getLog();
}

@RequestMapping(value = "/status/{jobId}", method = RequestMethod.GET)
@ResponseBody
@UnCheckLogin
@ApiOperation("开放接口,查询任务状态")
public JsonResponse getStatus(@PathVariable("jobId") @ApiParam(value = "任务 ID", required = true) Integer jobId
    , @RequestParam("time") @ApiParam(value = "时间戳, 只查询该时间戳之后的记录", required = true) long time) {
    HeraJobHistory history = heraJobHistoryService.findNewest(jobId);
    if (history == null) {
        return new JsonResponse(false, "无执行记录");
    }
    //此时可能正在创建动态集群 或者发送 netty 消息的路上
    if (history.getStartTime() == null && history.getGmtCreate().getTime() >= time) {
        return new JsonResponse(true, StatusEnum.RUNNING.toString());
    }

    if (history.getStartTime() != null && history.getStartTime().getTime() < time) {
        return new JsonResponse(false, "无执行记录");
    }
    return new JsonResponse(true, Optional.ofNullable(history.getStatus()).orElse(StatusEnum.RUNNING.toString()));
}

package com.chengyu.amlias.controller;
```



```
import java.util.List;
import javax.servlet.http.HttpServletResponse;
import com.chengyu.amlias.common.core.domain.RespResult;
import org.springframework.security.access.prepost.PreAuthorize;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.RestController;
import com.chengyu.amlias.common.annotation.Log;
import com.chengyu.amlias.common.core.controller.BaseController;
import com.chengyu.amlias.common.utils.poi.ExcelUtil;
import com.chengyu.amlias.common.core.page.TableDataInfo;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.PutMapping;
import org.springframework.web.bind.annotation.GetMapping;
import com.chengyu.amlias.common.enums.BusinessType;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import com.chengyu.amlias.domain.Customer;
import com.chengyu.amlias.service.ICustomerService;
import org.springframework.web.bind.annotation.PathVariable;
@RestController
@RequestMapping("/customer")
public class CustomerController extends BaseAction {
    @Autowired
    private ICustomerService customerService;

    /**
     * 查询客户信息列表
     */
    @GetMapping("/list")
    public TableDataInfo customerList(CustomerQueryVo queryVo) {
        startPage();
        List<Customer> customerList = customerService.getCustomerList(queryVo);
        list.forEach(i -> {
            i.setEmail(CustomerConvUtil(i.getEmail()));
            i.setIndustry(CustomerConvUtil(i.getIndustry()));
            i.setOccupation(CustomerConvUtil(i.getOccupation()));
        });
        PageInfo<Customer> pageInfo = new PageInfo<>(list);
        return RespResult.pageResult(list, pageInfo.getTotal());
    }

    @PostMapping
    public RespResult addCustomer(@Valid @RequestBody CustomerAddVo addVo) {
        customerService.saveCustomer(addVo);
        return RespResult.success();
    }

    public RespResult listcustomer(Customer customer) {
        List<Customer> list = customerService.getCustomerList(customer);
    }
}
```

```

        return RespResult.success(list);
    }

    @DeleteMapping("/{customerIds}")
    public RespResult delcustomer(@PathVariable Integer[] customerIds){
        customerService.deleteCustomerByCustomerIds(customerIds);
        return RespResult.success();
    }

    @PutMapping
    public RespResult updatecustomer(@Valid @RequestBody Customer customer){
        customerService.updateCustomer(customer);
        return RespResult.success();
    }

    @PostMapping("/export")
    public void exportCustomer(HttpServletResponse response, Customer customer){
        List<Customer> list = customerService.getCustomerList(customer);
        list.forEach(i -> {
            i.setEmail(CustomerExportFormat(i.getEmail()));
            i.setIndustry(CustomerExportFormat(i.getIndustry()));
            i.setOccupation(CustomerExportFormat(i.getOccupation()));
        });
        ExcelUtil<Customer> excelUtil = new ExcelUtil<Customer>(Customer.class);
        util.exportExcel(response, list, "客户信息数据");
    }

    @GetMapping(value =("/{customerId}")
    public RespResult getcustomerId(@PathVariable("customerId") Integer customerId){
        return RespResult.success(customerService.getCustomerByCustomerId(customerId));
    }
}

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd">
<mapper namespace="com.chengyu.amlias.mapper.MLModelMapper">
    <resultMap type="MLModel" id="MLModelResult">
        <result property="modelId" column="model_ID" />
        <result property="updatedAt" column="updated_at" />
        <result property="modelType" column="model_type" />
        <result property="trainingData" column="training_data" />
        <result property="modelName" column="model_name" />
        <result property="createdAt" column="created_at" />
        <result property="accuracy" column="accuracy" />
    </resultMap>
    <sql id="selectMLModelVo">
        select model_ID, updated_at, model_type, training_data, model_name, created_at, accuracy
        from amlias_mlmodel
    </sql>

```

```

<select id="selectMLModelList" parameterType="MLModel" resultMap="MLModelResult">
    <include refid="selectMLModelVo"/>
    <where>
        <if test="modelId != null ">
            and model_ID = #{modelId}
        </if>
        <if test="updatedAt != null ">
            and updated_at = #{updatedAt}
        </if>
        <if test="modelType != null and modelType != ''">
            and model_type = #{modelType}
        </if>
        <if test="trainingData != null and trainingData != ''">
            and training_data = #{trainingData}
        </if>
        <if test="modelName != null and modelName != ''">
            and model_name = #{modelName}
        </if>
        <if test="createdAt != null ">
            and created_at = #{createdAt}
        </if>
        <if test="accuracy != null ">
            and accuracy = #{accuracy}
        </if>
    </where>
</select>

<delete id="deleteMLModelById" parameterType="Integer">
    delete from amliaas_mlmodel where model_ID = #{modelId}
</delete>

<insert id="insertMLModel" parameterType="MLModel" useGeneratedKeys="true" keyProperty="modelId">
    insert into amliaas_mlmodel
    <trim prefix="(" suffix=")" suffixOverrides=",">
        <if test="updatedAt != null">updated_at,</if>
        <if test="modelType != null and modelType != ''">model_type,</if>
        <if test="trainingData != null and trainingData != ''">training_data,</if>
        <if test="modelName != null and modelName != ''">model_name,</if>
        <if test="createdAt != null">created_at,</if>
        <if test="accuracy != null">accuracy,</if>
    </trim>
    <trim prefix="values (" suffix=")" suffixOverrides=",">
        <if test="updatedAt != null">#{updatedAt},</if>
        <if test="modelType != null and modelType != ''">#{modelType},</if>
        <if test="trainingData != null and trainingData != ''">#{trainingData},</if>
        <if test="modelName != null and modelName != ''">#{modelName},</if>
        <if test="createdAt != null">#{createdAt},</if>
        <if test="accuracy != null">#{accuracy},</if>
    </trim>
</insert>

```

```
<delete id="deleteMLModelByModelIds" parameterType="String">
    delete from amlias_mlmodel where model_ID in
    <foreach item="modelId" collection="array" open="(" separator="," close=")">
        #{modelId}
    </foreach>
</delete>
</mapper>
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd">
<mapper namespace="com.chengyu.amlas.mapper.InvestigationRecordMapper">
    <resultMap type="InvestigationRecord" id="InvestigationRecordResult">
        <result property="recordId" column="record_ID" />
        <result property="recommendation" column="recommendation" />
        <result property="investigationDate" column="investigation_date" />
        <result property="investigator" column="investigator" />
        <result property="alertId" column="alert_ID" />
        <result property="conclusion" column="conclusion" />
        <result property="createdAt" column="created_at" />
        <result property="updatedAt" column="updated_at" />
        <result property="findings" column="findings" />
    </resultMap>
    <sql id="selectInvestigationRecordVo">
        select record_ID, recommendation, investigation_date, investigator, alert_ID, conclusion, created_at, updated_at, findings
        from amlias_investigationrecord
    </sql>
    <select id="selectInvestigationRecordList" parameterType="InvestigationRecord" resultMap="InvestigationRecordResult">
        <include refid="selectInvestigationRecordVo"/>
        <where>
            <if test="recordId != null ">
                and record_ID = #{recordId}
            </if>
            <if test="recommendation != null and recommendation != ''">
                and recommendation = #{recommendation}
            </if>
            <if test="investigationDate != null and investigationDate != ''">
                and investigation_date = #{investigationDate}
            </if>
            <if test="investigator != null and investigator != ''">
                and investigator = #{investigator}
            </if>
            <if test="alertId != null ">
                and alert_ID = #{alertId}
            </if>
            <if test="conclusion != null and conclusion != ''">
                and conclusion = #{conclusion}
            </if>
            <if test="createdAt != null ">
```

```

        and created_at = #{createdAt}
    </if>
    <if test="updatedAt != null ">
        and updated_at = #{updatedAt}
    </if>
    <if test="findings != null and findings != ''">
        and findings = #{findings}
    </if>
</where>
</select>
<delete id="deleteInvestigationRecordByRecordId" parameterType="Integer">
    delete from amlias_investigationrecord where record_ID = #{recordId}
</delete>

<insert id="insertInvestigationRecord" parameterType="InvestigationRecord" useGenerat
edKeys="true" keyProperty="recordId">
    insert into amlias_investigationrecord
    <trim prefix="(" suffix=")" suffixOverrides=",">
        <if test="recommendation != null and recommendation != ''">recommendation,</i
f>
        <if test="investigationDate != null and investigationDate != ''">investigatio
n_date,</if>
        <if test="investigator != null and investigator != ''">investigator,</if>
        <if test="alertId != null">alert_ID,</if>
        <if test="conclusion != null and conclusion != ''">conclusion,</if>
        <if test="createdAt != null">created_at,</if>
        <if test="updatedAt != null">updated_at,</if>
        <if test="findings != null and findings != ''">findings,</if>
    </trim>
    <trim prefix="values (" suffix=")" suffixOverrides=",">
        <if test="recommendation != null and recommendation != ''">#{recommendation},
</if>
        <if test="investigationDate != null and investigationDate != ''">#{investigat
ionDate},</if>
        <if test="investigator != null and investigator != ''">#{investigator},</if>
        <if test="alertId != null">#{alertId},</if>
        <if test="conclusion != null and conclusion != ''">#{conclusion},</if>
        <if test="createdAt != null">#{createdAt},</if>
        <if test="updatedAt != null">#{updatedAt},</if>
        <if test="findings != null and findings != ''">#{findings},</if>
    </trim>
</insert>
<delete id="deleteInvestigationRecordByRecordIds" parameterType="String">
    delete from amlias_investigationrecord where record_ID in
    <foreach item="recordId" collection="array" open="(" separator="," close=")">
        #{recordId}
    </foreach>
</delete>
</mapper>
package com.chengyu.amlas.common.processor;

```

```
import com.alibaba.fastjson.JSONObject;
import lombok.Builder;
import lombok.Data;
import java.util.Map;
import java.util.stream.Collectors;
@Builder
@Data
public class JobProcessor implements Processor {

    public static final String name = "JobProcessor";

    private String jobId;
    private Map<String, String> kvConfig;

    @Override
    public String getId() {
        return name;
    }

    @Override
    public String getConfig() {
        JSONObject jsonObject = new JSONObject();
        jsonObject.put("actionId", jobId);
        JSONObject kv = new JSONObject();
        if (kvConfig != null) {
            kvConfig.keySet()
                .stream()
                .filter(key -> key.startsWith("instance."))
                .forEach(value -> kv.put(value, kvConfig.get(value)));
        }
        jsonObject.put("kvConfig", kv);
        return jsonObject.toString();
    }

    @Override
    public void parse(String config) {
        JSONObject jsonObject = JSONObject.parseObject(config);
        jobId = jsonObject.getString("actionId");
        kvConfig = jsonObject.getJSONObject("kvConfig").entrySet().stream()
            .filter(ks -> jsonObject.getString(ks.toString()) != null)
            .collect(Collectors.toMap(k -> k.toString(), v -> jsonObject.g
etString(v.toString()), (s, t) -> t));
    }
}

package com.chengyu.amlias.common.service.impl;
import com.chengyu.amlias.common.entity.HeraHostGroup;
import com.chengyu.amlias.common.entity.HeraHostRelation;
import com.chengyu.amlias.common.mapper.HeraHostGroupMapper;
import com.chengyu.amlias.common.service.HeraHostRelationService;
```

```
import com.chengyu.amlas.common.entity.vo.HeraHostGroupVo;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.context.properties.ConfigurationProperties;
import org.springframework.context.annotation.PropertySource;
import org.springframework.stereotype.Service;
import com.chengyu.amlas.common.service.HeraHostGroupService;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
@Service("heraHostGroupService")
public class HeraHostGroupServiceImpl implements HeraHostGroupService {

    @Autowired
    private HeraHostGroupMapper heraHostGroupMapper;
    @Autowired
    private HeraHostRelationService heraHostRelationService;

    @Override
    public int insert(HeraHostGroup heraHostGroup) {
        return heraHostGroupMapper.insert(heraHostGroup);
    }

    @Override
    public int delete(int id) {
        return heraHostGroupMapper.delete(id);
    }

    @Override
    public int update(HeraHostGroup heraHostGroup) {
        return heraHostGroupMapper.update(heraHostGroup);
    }

    @Override
    public List<HeraHostGroup> getAll() {
        return heraHostGroupMapper.getAll();
    }

    @Override
    public HeraHostGroup findById(int id) {
        HeraHostGroup group = HeraHostGroup.builder().id(id).build();
        return heraHostGroupMapper.findById(group);
    }

    @Override
    public Map<Integer, HeraHostGroupVo> getAllHostGroupInfo() {
        List<HeraHostGroup> groupList = this.getAll();
        Map<Integer, HeraHostGroupVo> hostGroupInfoMap = new HashMap<>(groupList.size());
        List<HeraHostRelation> relationList = heraHostRelationService.getAll();
```

```
        groupList.forEach(heraHostGroup -> {
            if(heraHostGroup.getEffective() == 1) {
                HeraHostGroupVo vo = HeraHostGroupVo.builder()
                    .id(String.valueOf(heraHostGroup.getId()))
                    .name(heraHostGroup.getName())
                    .nextPos(0)
                    .description(heraHostGroup.getDescription())
                    .build();
                List<String> hosts = new ArrayList<>();
                relationList.forEach(heraHostRelation -> {
                    if(heraHostRelation.getHostGroupId() == (heraHostGroup.getId())) {
                        hosts.add(heraHostRelation.getHost());
                    }
                });
                vo.setHosts(hosts);
                hostGroupInfoMap.put(heraHostGroup.getId(), vo);
            }
        });
        return hostGroupInfoMap;
    }
}

package com.chengyu.amlias.common.service.impl;
import com.chengyu.amlias.common.entity.HeraAdvice;
import com.chengyu.amlias.common.mapper.HeraAdviceMapper;
import com.chengyu.amlias.common.service.HeraAdviceService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.List;

@Service("heraAdviceService")
public class HeraHeraAdviceServiceImpl implements HeraAdviceService {

    @Autowired
    private HeraAdviceMapper heraAdviceMapper;

    @Override
    public boolean addAdvice(HeraAdvice heraAdvice) {
        Integer res = heraAdviceMapper.insert(heraAdvice);
        return res != null && res > 0;
    }

    @Override
    public List<HeraAdvice> getAll() {
        return heraAdviceMapper.getAll();
    }
}

package com.chengyu.amlias.common.service.impl;
import com.chengyu.amlias.common.entity.HeraHostRelation;
import com.chengyu.amlias.common.mapper.HeraHostRelationMapper;
```



```
import com.chengyu.amlias.common.service.HeraHostRelationService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.List;

@Service("heraHostRelationService")
public class HeraHostRelationServiceImpl implements HeraHostRelationService {

    @Autowired
    private HeraHostRelationMapper heraHostRelationMapper;

    @Override
    public int insert(HeraHostRelation heraHostRelation) {
        return heraHostRelationMapper.insert(heraHostRelation);
    }

    @Override
    public int delete(int id) {
        return heraHostRelationMapper.delete(id);
    }

    @Override
    public int update(HeraHostRelation heraHostRelation) {
        return heraHostRelationMapper.update(heraHostRelation);
    }

    @Override
    public List<HeraHostRelation> getAll() {
        return heraHostRelationMapper.getAll();
    }

    @Override
    public HeraHostRelation findById(HeraHostRelation heraHostRelation) {
        return heraHostRelationMapper.findById(heraHostRelation);
    }

    @Override
    public List<String> findPreemptionGroup(int id) {
        return heraHostRelationMapper.findPreemptionGroup(id);
    }
}

package com.chengyu.amlias.common.entity;
import com.chengyu.amlias.common.config.SkipColumn;
import io.swagger.annotations.ApiModel;
import io.swagger.annotations.ApiModelProperty;
import lombok.AllArgsConstructor;
import lombok.Builder;
import lombok.Data;
import lombok.NoArgsConstructor;
import java.util.Date;
```

```
@Builder
@Data
@AllArgsConstructor
@NoArgsConstructor
@ApiModel(value = "hera 任务组对象")
public class HeraGroup {

    @ApiModelProperty(value = "组 ID")
    private Integer id;
    @ApiModelProperty(value = "json 格式的配置")

    private String configs;
    @ApiModelProperty(value = "描述")

    private String description;
    @ApiModelProperty(value = "0 大目录, 1 小目录")
    private Integer directory;

    @SkipColumn
    @ApiModelProperty(value = "创建时间")
    private Date gmtCreate;

    @SkipColumn
    private Date gmtModified;

    private String name;
    @ApiModelProperty(value = "所有人")
    private String owner;
    @ApiModelProperty(value = "父目录 id")
    private Integer parent;
    @ApiModelProperty(value = "目前无用")
    private String resources;
    @ApiModelProperty(value = "0 删除, 1 存在")
    private Integer existed;
}

package com.chengyu.amlias.service.impl;
import com.baomidou.mybatisplus.extension.service.impl.ServiceImpl;
import com.chengyu.amlias.mapper.AlertRecordMapper;
import com.chengyu.amlias.domain.AlertRecord;
import com.chengyu.amlias.service.IAlertRecordService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.List;

@Service
public class AlertRecordServiceImpl extends ServiceImpl<AlertRecordMapper, AlertRecord> implements IAlertRecordService{
    @Autowired
```

```

private AlertRecordMapper alertRecordMapper;

@Override
public AlertRecord getAlertRecordByAlertId(Integer alertId){
    return alertRecordMapper.selectAlertRecordByAlertId(alertId);
}

@Override
public List<AlertRecord> listAlertRecord(AlertRecord alertRecord){
    return alertRecordMapper.selectAlertRecordList(alertRecord);
}

@Transactional
@Override
public int saveAlertRecord(AlertRecord alertRecord){
    return alertRecordMapper.insertAlertRecord(alertRecord);
}

private void checkExisted(AlertRecordEntity entity) {
    AlertRecordEntity existEntity = getOne(
        Wrappers.lambdaQuery(AlertRecordEntity.class)
            .eq(AlertRecordEntity::getAlertId, entity.getAlertId())
            .last(false);
    if (existEntity != null && !existEntity.getId().equals(entity.getId())) {
        throw new BizException("预警记录记录已存在!");
    }
}

@Override
@Transactional
public int delAlertRecordByAlertIds(Integer[] alertIds){
    return alertRecordMapper.deleteAlertRecordByAlertIds(alertIds);
}

private void alertRecordData(List<AlertRecordDto> list) {
    List<String> list = list.stream().map(AlertRecordDto::getAlertId)
        .collect(Collectors.toList());
    list.stream().forEach(alertRecord -> {
        AlertRecord alertRecordEntry = entryAlertRecordMap.get(alertRecord.getAlertId());

        if (alertRecordEntry != null) {
            alertRecord.setAlertTime(AlertRecordTrans(alertRecordEntry.getAlertTime()));
            alertRecord.setAlertLevel(AlertRecordTrans(alertRecordEntry.getAlertLevel()));
;
            alertRecord.setCreatedAt(AlertRecordTrans(alertRecordEntry.getCreatedAt()));
            alertRecord.setAlertId(AlertRecordTrans(alertRecordEntry.getAlertId()));
            alertRecord.setInvestigationStatus(AlertRecordTrans(alertRecordEntry.getInvestigationStatus()));
        }
    });
}

```

```
}

@Override
@Transactional
public int updateAlertRecord(AlertRecord alertRecord) {
    return alertRecordMapper.updateAlertRecord(alertRecord);
}

@Override
@Transactional
public int delAlertRecordByAlertId(Integer alertId) {
    return alertRecordMapper.deleteAlertRecordByAlertId(alertId);
}
}

package com.chengyu.amlias.utils;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import java.io.UnsupportedEncodingException;
import java.net.URLDecoder;
import java.net.URLEncoder;
import java.util.Base64;
public class EncryptUtil {
    private static final Logger logger = LoggerFactory.getLogger(EncryptUtil.class);

    public static String encodeBase64(byte[] bytes) {
        String encoded = Base64.getEncoder().encodeToString(bytes);
        return encoded;
    }

    public static byte[] decodeBase64(String str) {
        byte[] bytes = null;
        bytes = Base64.getDecoder().decode(str);
        return bytes;
    }

    public static String encodeUTF8StringBase64(String str) {
        String encoded = null;
        try {
            encoded = Base64.getEncoder().encodeToString(str.getBytes("utf-8"));
        } catch (UnsupportedEncodingException e) {
            logger.warn("不支持的编码格式", e);
        }
        return encoded;
    }

    public static String decodeUTF8StringBase64(String str) {
        String decoded = null;
        byte[] bytes = Base64.getDecoder().decode(str);
        try {
```

```
        decoded = new String(bytes,"utf-8");
    } catch (UnsupportedEncodingException e) {
        logger.warn("不支持的编码格式",e);
    }
    return decoded;
}

public static String encodeURL(String url) {
    String encoded = null;
    try {
        encoded = URLEncoder.encode(url, "utf-8");
    } catch (UnsupportedEncodingException e) {
        logger.warn("URLEncode 失败", e);
    }
    return encoded;
}

public static String decodeURL(String url) {
    String decoded = null;
    try {
        decoded = URLDecoder.decode(url, "utf-8");
    } catch (UnsupportedEncodingException e) {
        logger.warn("URLDecode 失败", e);
    }
    return decoded;
}

public static void main(String [] args){
    String str = "abcd{'a':'b'}";
    String encoded = EncryptUtil.encodeUTF8StringBase64(str);
    String decoded = EncryptUtil.decodeUTF8StringBase64(encoded);
    System.out.println(str);
    System.out.println(encoded);
    System.out.println(decoded);

    String url = "== wo";
    String urlEncoded = EncryptUtil.encodeURL(url);
    String urlDecoded = EncryptUtil.decodeURL(urlEncoded);

    System.out.println(url);
    System.out.println(urlEncoded);
    System.out.println(urlDecoded);
}

package com.chengyu.amlias.utils;
import org.apache.commons.lang.StringUtils;
import java.text.DateFormat;
import java.text.ParseException;
import java.text.SimpleDateFormat;
```

```
import java.time.LocalDate;
import java.time.LocalDateTime;
import java.time.ZoneId;
import java.time.ZoneOffset;
import java.time.format.DateTimeFormatter;
import java.util.*;
/**
 * 日期处理
 *
 */
public class DateUtil {
    public static final String YYYY_MM_DD_HH_MM_SS = "yyyy-MM-dd HH:mm:ss";

    public static final String YYYYMMDD = "yyyyMMdd";

    public static final String HHmmss = "HHmmss";

    public static final String YYYYMM = "yyyyMM";

    private DateUtil() {
    }

    public static String toDateTime(LocalDateTime date) {
        return toDateTime(date, YYYY_MM_DD_HH_MM_SS);
    }

    public static String toDateTime(LocalDateTime dateTime, String pattern) {
        return dateTime.format(DateTimeFormatter.ofPattern(pattern, Locale.SIMPLIFIED_CHINESE));
    }

    public static String toDateText(LocalDate date, String pattern) {
        if (date == null || pattern == null) {
            return null;
        }
        return date.format(DateTimeFormatter.ofPattern(pattern, Locale.SIMPLIFIED_CHINESE));
    }

    /**
     * 从给定的 date, 加上 hour 小时 求指定 date 时间后 hour 小时的时间
     *
     * @param date 指定的时间
     * @param hour 多少小时后
     * @return
     */
    public static Date addExtraHour(Date date, int hour) {
        Calendar cal = Calendar.getInstance();
        if (date != null) {
```

```
        cal.setTime(date);
    }
    cal.add(Calendar.HOUR_OF_DAY, hour);
    return cal.getTime();
}

/**
 * 从给定的 date, 加上 increase 天
 *
 * @param date
 * @param increase
 * @return
 */
public static Date increaseDay2Date(Date date, int increase) {
    Calendar cal = Calendar.getInstance();
    if (date != null) {
        cal.setTime(date);
    }
    cal.add(Calendar.DAY_OF_MONTH, increase);
    return cal.getTime();
}

/**
 * 从给定的 LocalDateTime, 加上 increase 月
 *
 * @param date
 * @param increase
 * @return
 */
public static LocalDateTime localDateTimeAddMonth(LocalDateTime date, int increase) {
    Date temp = Date.from(date.atZone(ZoneId.systemDefault()).toInstant());
    Calendar cal = Calendar.getInstance();
    if (temp != null) {
        cal.setTime(temp);
    }
    cal.add(Calendar.MONTH, increase);
    // LocalDateTime <-- Date
    return LocalDateTime.ofInstant(cal.getTime().toInstant(), ZoneId.systemDefault());
}

/**
 * 把字符串日期默认转换为 yyyy-mm-dd 格式的 Date 对象
 *
 * @param strDate
 * @return
 */
public static Date format(String strDate, String format) {
    Date d = null;
    if (null == strDate || "".equals(strDate))
```

```
        return null;
    } else {
        try {
            d = getFormatter(format).parse(strDate);
        } catch (ParseException pex) {
            return null;
        }
    }
    return d;
}

/**
 * 获取一个简单的日期格式化对象
 *
 * @return 一个简单的日期格式化对象
 */
private static SimpleDateFormat getFormatter(String parttern) {
    return new SimpleDateFormat(parttern);
}

/**
 * 获取 month 所在月的所有天
 *
 * @param month 要查询的日期（如果为 null 则默认为当前月）
 * @param dateFormat 返回日期的格式（如果为 null 则返回 yyyy-MM-dd 格式结果）
 * @return
 */
public static List<String> getAllDaysOfMonthInString(Date month, DateFormat dateFormat) {
    List<String> rs = new ArrayList<String>();
    DateFormat df = null;
    if (null == dateFormat) {
        df = new SimpleDateFormat("yyyy-MM-dd");
    }
    Calendar cad = Calendar.getInstance();
    if (null != month) {
        cad.setTime(month);
    }
    int day_month = cad.getActualMaximum(Calendar.DAY_OF_MONTH); // 获取当月天数
    for (int i = 0; i < day_month; i++) {
        cad.set(Calendar.DAY_OF_MONTH, i + 1);
        rs.add(df.format(cad.getTime()));
    }
    return rs;
}

/**
 * 获取 month 所在月的所有天
 *
 * @param month 要查询的日期（如果为 null 则默认为当前月）
```



```
* @return 日期 List
*/
public static List<Date> getAllDaysOfMonth(Date month) {
    List<Date> rs = new ArrayList<Date>();
    Calendar cad = Calendar.getInstance();
    if (null != month) {
        cad.setTime(month);
    }
    int day_month = cad.getActualMaximum(Calendar.DAY_OF_MONTH); // 获取当月天数
    for (int i = 0; i < day_month; i++) {
        cad.set(Calendar.DAY_OF_MONTH, i + 1);
        rs.add(cad.getTime());
    }
    return rs;
}

/**
 * 获取指定日期区间所有天
 *
 * @param begin
 * @param end
 * @param dateFormat (如果为 null 则返回 yyyy-MM-dd 格式的日期)
 * @return
 */
public static List<String> getSpecifyDaysOfMonthInString(Date begin, Date end, DateFormat dateFormat) {
    DateFormat df = null;
    if (null == dateFormat) {
        df = new SimpleDateFormat("yyyy-MM-dd");
    }
    List<String> rs = new ArrayList<String>();
    List<Date> tmplist = getSpecifyDaysOfMonth(begin, end);
    for (Date date : tmplist)
        rs.add(df.format(date));
    return rs;
}

/**
 * 获取指定日期区间所有天
 *
 * @param begin
 * @param end
 * @return
 */
public static List<Date> getSpecifyDaysOfMonth(Date begin, Date end) {
    List<Date> rs = new ArrayList<Date>();
    Calendar cad = Calendar.getInstance();
    int day_month = -1;
    if (null == begin) { // 设置开始日期为指定日期
```

```
// day_month = cad.getActualMaximum(Calendar.DAY_OF_MONTH); // 获取当月天数
cad.set(Calendar.DAY_OF_MONTH, 1); // 设置开始日期为当前月的第一天
begin = cad.getTime();
}
cad.setTime(begin);
if (null == end) { // 如果结束日期为空，设置结束日期为下月的第一天
    day_month = cad.getActualMaximum(Calendar.DAY_OF_MONTH); // 获取当月天数
    cad.set(Calendar.DAY_OF_MONTH, day_month + 1);
    end = cad.getTime();
}
cad.set(Calendar.DAY_OF_MONTH, 1); // 设置开始日期为当前月的第一天
Date tmp = begin;
int i = 1;
while (true) {
    cad.set(Calendar.DAY_OF_MONTH, i);
    i++;
    tmp = cad.getTime();
    if (tmp.before(end)) {
        rs.add(cad.getTime());
    } else {
        break;
    }
}
return rs;
}

/**
 * 获取当前日期
 *
 * @return 一个包含年月日的<code>Date</code>型日期
 */
public static synchronized Date getCurrDate() {
    Calendar calendar = Calendar.getInstance();
    return calendar.getTime();
}

public static String format(Date date, String pattern) {
    SimpleDateFormat dateFormat = new SimpleDateFormat(pattern);
    return dateFormat.format(date);
}

/**
 * 获取当前完整时间,样式: yyyy-MM-dd hh:mm:ss
 *
 * @return 一个包含年月日时分秒的<code>String</code>型日期。yyyy-MM-dd hh:mm:ss
 */
public static String getCurrDateTimeStr() {
    return format(getCurrDate(), "YYYY_MM_DD_HH_MM_SS");
}
```

```
/**
 * 获得指定日期的前一天
 *
 * @param specifiedDay YYYY_MM_DD_HH_MM_SS 格式
 * @param formatStr 日期类型
 * @return
 */
public static String getSpecifiedDayBefore(String specifiedDay, String formatStr) {//
```

可以用 new

```
// Date().toLocaleString() 传递参数
Calendar c = Calendar.getInstance();
Date date = null;
try {
    date = new SimpleDateFormat(YYYY_MM_DD_HH_MM_SS).parse(specifiedDay);
} catch (ParseException e) {
    e.printStackTrace();
}
c.setTime(date);
int day = c.get(Calendar.DATE);
c.set(Calendar.DATE, day - 1);

String dayBefore = new SimpleDateFormat(formatStr).format(c.getTime());
return dayBefore;
}
/**
 * 获取当前月的第一天
 *
 * @return
 */
public static final String getCurrentMonthFirstDay() {
    Calendar cal = Calendar.getInstance();
    SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");
    // 当前月的第一天
    cal.set(GregorianCalendar.DAY_OF_MONTH, 1);
    Date beginTime = cal.getTime();
    return sdf.format(beginTime);
}
```

```
/**
 * 获取昨天开始时间
 *
 * @return
 */
public static final String getYesterdayStart() {
    Calendar cal = Calendar.getInstance();
    cal.add(Calendar.DATE, -1);
    SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");
    return sdf.format(cal.getTime());
}
```

```
    public static final String getYesterdayEnd() {
        Calendar cal = Calendar.getInstance();
        cal.add(Calendar.DATE, -1);
        SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");
        return sdf.format(cal.getTime()) + " 23:59:59";
    }

    public static final String getCurrDayStart() {
        Calendar cal = Calendar.getInstance();
        SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");
        return sdf.format(cal.getTime());
    }
}
```