1、流程周期

1.1.定义流程

定义一个流程bpmn文件

1.2.发布流程

发布一个流程即将bpmn文件发布到数据库中使用activiti默认的表存储

1.3.流程挂起、激活

发布的流程文件可以启动,也可以挂起操作,当挂起时流程将不会被使用启动成为为一个流程,当流程文件激活时才可以继续使用该流程

1.4.流程启动

当发起一个流程时,会选定一个激活的流程bpmn文件进行启动,会自动生成一个独一的流程id,并且将会自动流转到第一个人员操作节点

1.5.审核节点

每个审核节点完成时,可以对该条流程进行传参,我们默认为number,提前在流程流转线上设定好当number为0,1,2等时流转到哪个节点,

1.6.流程流转

根据number值的不同进行选择流程流转的方向进行流程流转

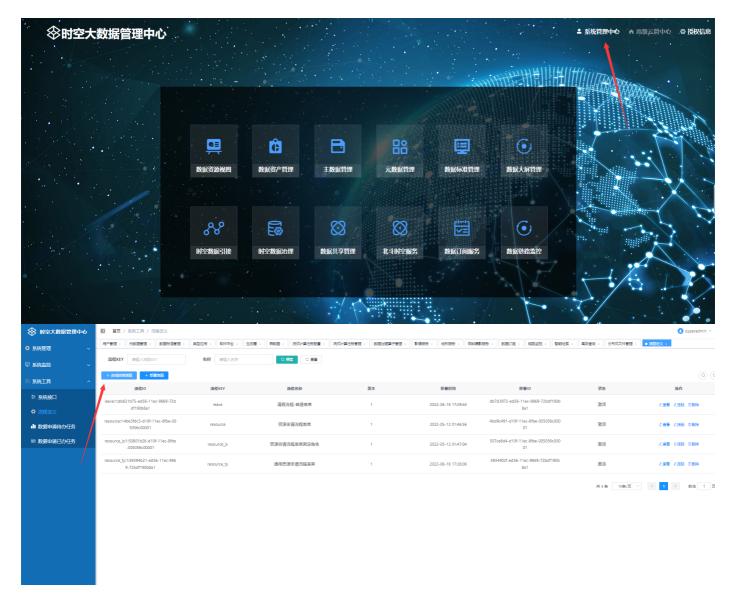
1.7.流程结束

使用流程监听类对流程结束进行监听,当流程结束时,根据审批参数的不同对业务表单的审核结果进行改变完成流程

2、示例:以一个审批节点为例

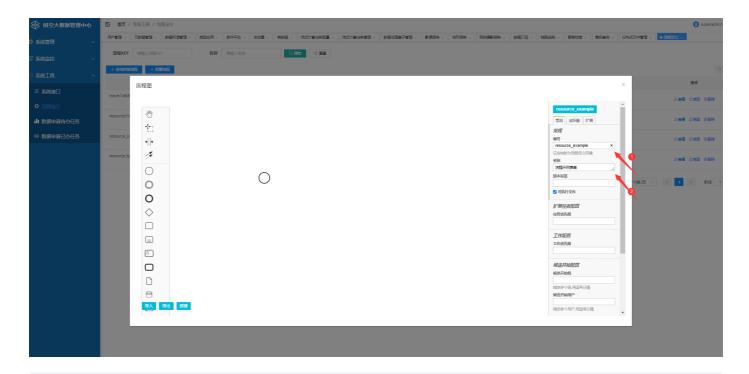
2.1.定义流程

登录时空大数据管理中心,进入右上角系统管理中心,选择系统工具——》流程定义——》在线绘制流程

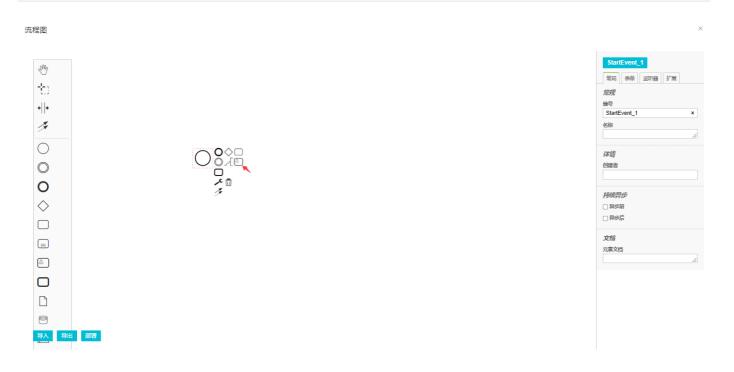


2.1.1.点击默认存在的流程开启组件

在右侧表单里可以修改编号和名称,即节点编号和名称,供后续流程操作使用

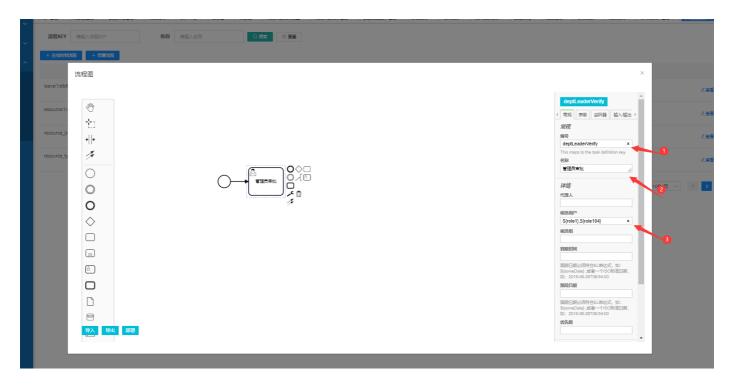


点击组件周围出现的名为AppendServiceTask新建一个人员审批节点

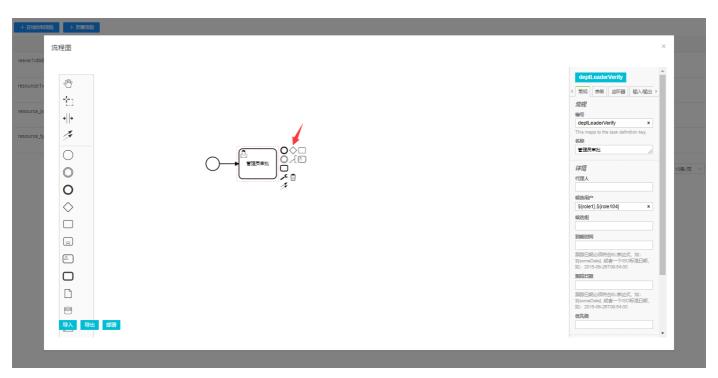


2.1.1.1 点击审批节点

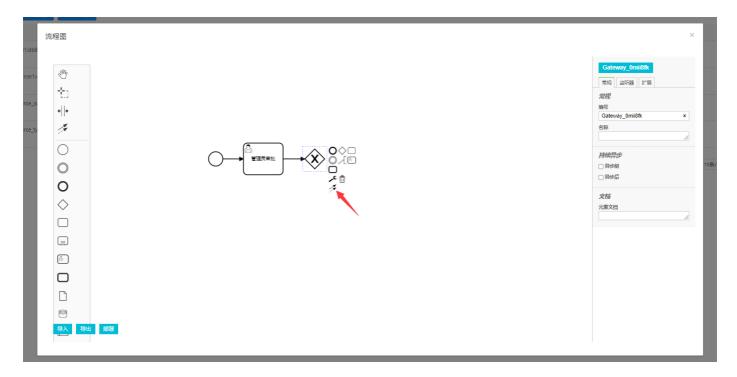




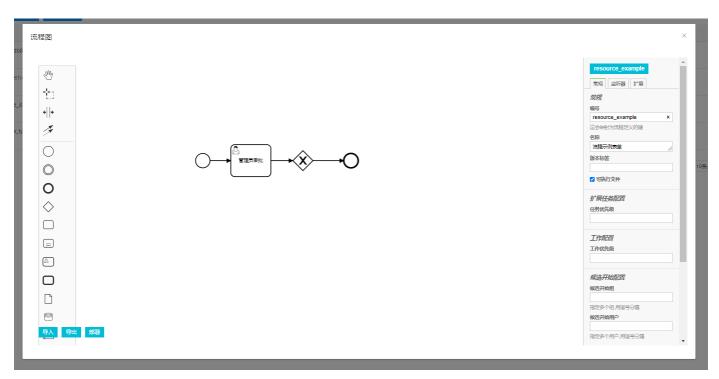
2.1.2.点击人员审批节点在周围出现组件中选择 追加网关进行增加一个排他网关



2.1.2.1排他网关标识只要其中一条线的条件满足就会流转到下一节点,这里用来引出通过和不通过两条线。



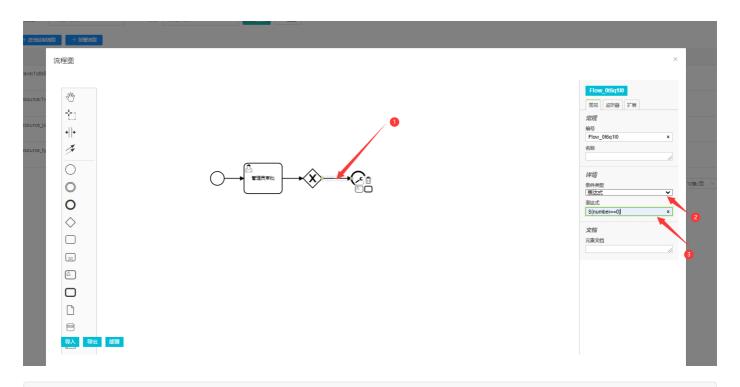
2.1.3.点击网关在周围出现的组件中选择 追加结束事件进行增加一个结束 事件



2.1.3.1 审核通过

1添加走这条线的流转判断条件

点击网关指向结束事件的线,在右侧选择常规、详情、条件类型选择表达式,表达式中填写 \${number == 0} 意思是当代码传的值number==0 的时候走这条线



2因为走完这个审批节点流程就结束了,所以要同时添加结束事件监听器 如果流程走到这条线就会触发监听器 点击监听器,在执行监听 点击 "+"添加一个take:Java类 例如 com.geovis.activiti.workflow.linstener.ResourceEndStateListener





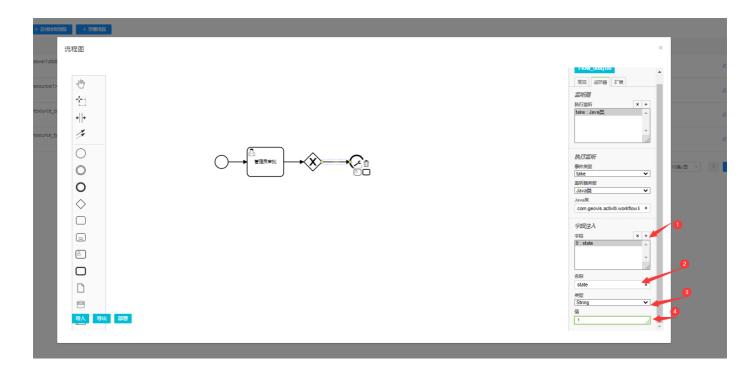
3在字段注入中点击"+"添加一个字段注入:

例如 名称为

state 类型为

String 1

值为



将state的值保存进该条审批记录,1代表审批通过,2代表审批不通过如果审批通过==》审批者选择通过按钮==》前端传给后端的参数如下

```
{
    "controlId": "number",
    "controlSuggestion": "通过",
    "controlValue": 0
}
```

字段	备注
controlld	默认为number 即流程流转到下一节点到哪个节点,是审批通过还是不通过的判定条件参数名称
controlSuggestion	审批意见
controlValue	number的值,用来判断是否审批成功 例如0为通过 1为不通过

后端将前端传过来的number和值 0 保存在variables里传给bpmn工作流

```
variables.put(awf.getControlId(), awf.getControlValue());
```

bpmn中对number的值进行了判定 如果\${number == 0},则走这条线,

走这条线就会注入一个参数 state 为1,在监听器读取state,如果state为1,则审批结果为通过,进行在业务表单中保留审批成功操作

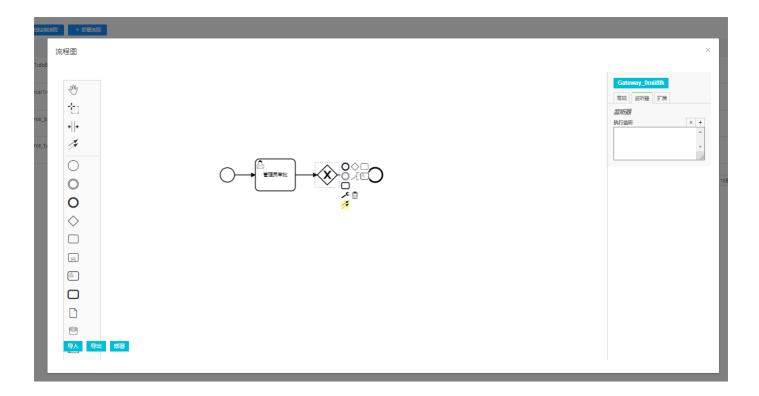
监听器代码如下:

```
@Slf4j
```

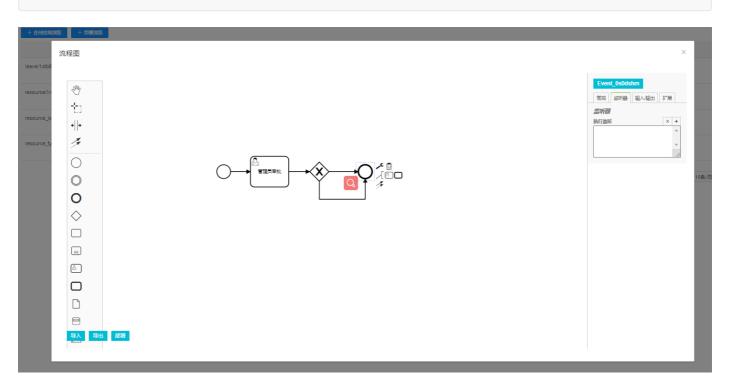
```
public class ResourceEndStateListener implements ExecutionListener {
        private Expression state;
        @Override
        public void notify(DelegateExecution delegateExecution) {
                 ResourceApplication resourceApplication = new ResourceApplication();
 resourceApplication.setId(delegateExecution.getProcessInstanceBusinessKey());
 resourceApplication.setState(state.getValue(delegateExecution).toString());
 {\tt SpringUtils.getBean(IResourceApplicationService.class).updateResourceApplication(resourceApplication(resourceApplication)).pdf.} \\
rceApplication);
                 ResourceApplication resourceApplication1 =
SpringUtils.getBean(IResourceApplicationService.class).selectResourceApplicationById(re
sourceApplication.getId());
                try {
HttpUtils.instance.jsonPost(resourceApplication1.getCallbackUrl(), null,
JSON.toJSONString(resourceApplication1));
                         log.info("http callback: {}, {}",
resourceApplication1.getCallbackUrl(), JSON.toJSONString(resourceApplication1));
                 } catch (IOException e) {
                         e.printStackTrace();
                         log.error("回调失败: {}", e.getMessage());
                 }
        }
}
```

2.1.3.2 审核不通过

1.点击网关,点击周围的 使用顺序/消息流或者关联连接 指向结束组件



2.可以拖拽这条线让其不再与上面通过的线重合

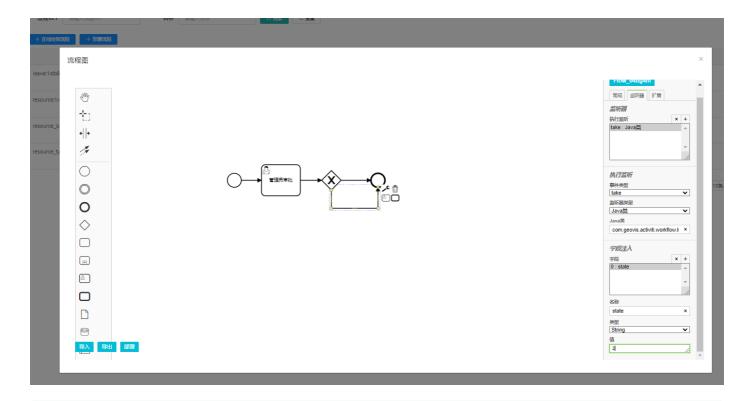


3.点击这条线,在右侧窗口选择监听器,在执行监听 点击 "+"添加一个take:Java类与上面通过的Java类是同一个

com.geovis.activiti.workflow.linstener.ResourceEndStateListener

4.在字段注入中点击"+"添加一个字段注入:

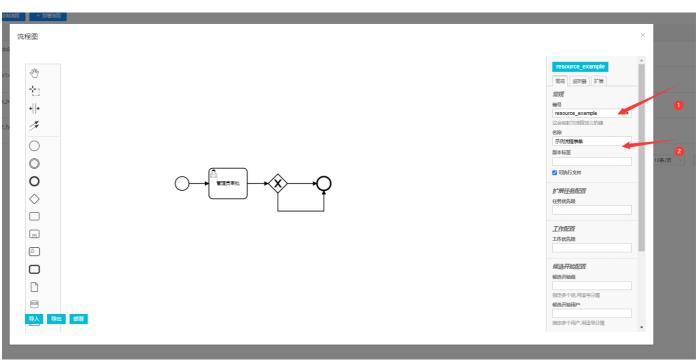
例如 名称为 state 类型为 String 值为 2



可以在代码中读取state的值来了解审批结果,例如设置审批值为number =1,也可以是不为0的其他值,则走这条线,

该操作注入一个参数 state为2,在监听器读取state,如果state为2,则审批结果为拒绝,进行在业务表单中保留审批失败操作

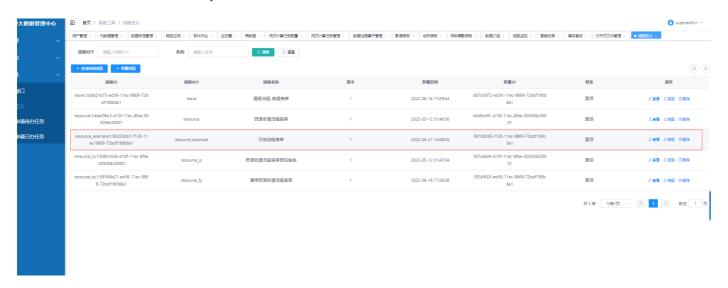
2.1.4.点击空白区域,在右侧表单可以编写这个bpmn的基本信息



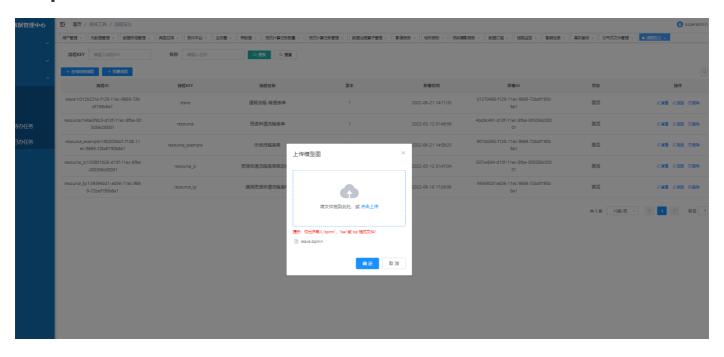
编号 例如 resource_example 是流程key ,部署bpmn文件后会保存到act_re_procdef表中的KEY 字段 名称 例如 示例流程表单 是流程名称,部署bpmn文件后会保存到act_re_procdef表中的NAME字段 描述 例如 资源申请流程示例 是流程描述,部署bpmn文件后会保存到act_re_procdef表中的DESCRIPTION_字段

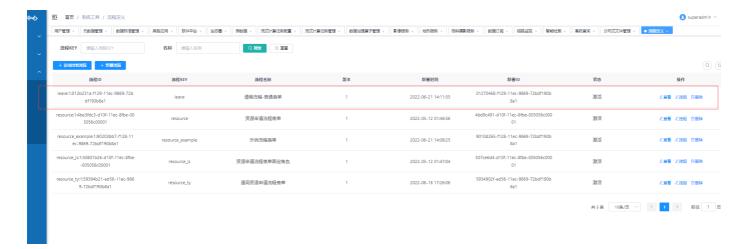
2.2.发布流程

2.2.1 上面画好的流程图,可以点击 部署 按钮直接部署到数据库,部署后会在流程列表中展示,



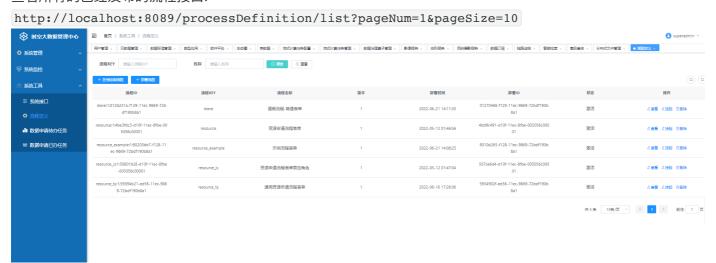
2.2.2 也可以再流程定义界面点击 部署流程 按钮,选择需要部署的流程文件进行部署,可以上传含有bpmn文件的zip文件进行部署,也可以直接部署bpmn文件





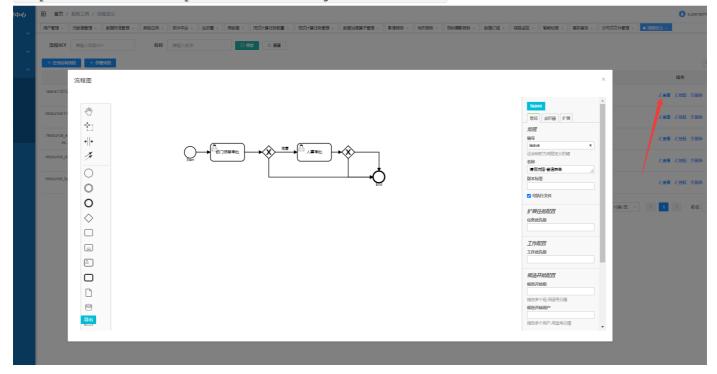
2.2.3 发布的流程可以在act_re_procdef 表中看到流程文件的信息

查看所有的已经发布的流程接口:



2.2.4 查看流程,可以根据 DEPLOYMENT_ID_ 和RESOURCE_NAME_ 读取bpmn的xml文件,展示在前端页面上

http://localhost:8089/processDefinition/getDefinitionXML



get接口传参如下:

KEY	VALUE
deploymentId	507ce6d4-d10f-11ec-8fbe-005056c00001
resourceName	resource_js.bpmn
可以列出所有发布的流程信息	

2.3.流程挂起、激活

2.3.1 在发布流程展示界面点击挂起、激活可以改变流程的状态,接口如下:

http://localhost:8089/processDefinition/suspendOrActiveApply

post接口 传参如下:

```
{
   "id":"leave:1:db821b75-ed56-11ec-9869-72bdf190b8a1",
   "suspendState":"1"
}
```

字段	注释
id	流程部署后在act_re_procdef表中生成的id
suspendState	流程状态 1为正在使用 2为挂起



2.3.2 当挂起时流程将不会被使用启动成为为一个流程,当流程文件激活时才可以继续使用该流程

2.4.流程启动

2.4.1 保存草稿:

http://localhost:8089/common/addDraft post接口传参如下:

```
"type": "data sharing",
       "title": "草稿测试1",
       "reason": "
{\"id\":70,\"accesskeyId\":\"v5gim64kv4uwoi0m\",\"accesskeySecret\":\"ca3bed236b63ce314
d356008ce0315f5\",\"status\":\"2\",\"startTime\":\"2022-06-09
00:00\",\"endTime\":\"2022-06-20 00:00\",\"applyBy\":\"二级管理员\",\"menuIds\":
[2060,2061],\"scopeId\":8200,\"userUnit\":\"智慧创新研究院
\",\"contactNumber\":\"18686596407\",\"activitiType\":\"data sharing\",\"activitiTitle\
":\"测试气象数据申请\",\"menuNames\":\"非空间数据
\",\"createBy\":\"geoadmin\",\"remark\":\"测试申请气象数据\",\"params\":{}}",
       "state": "4",
       "createName": "二级管理员",
        "createBy": "geoadmin",
        "callbackUrl": "http://192.168.131.26:38081/system/access/callbackurl",
       "cause": "测试申请气象数据",
        "userUnit": "智慧创新研究院",
        "phone": "18686596407",
       "urge": "0",
```

```
"reKey": "resource_ty",
"reId": "resource_ty:1:59394b21-ed56-11ec-9869-72bdf190b8a1"
}
```

字段	注释	备注
type	申请类型:如数据共享、数据订阅,可以约定好英文和中文的映射关系,保存在数据字典中	在业务表单填写时保存进来
title	标题	在业务表单填写时保存进来
reason	存放业务表单所有数据的json 将整个业务表单转化 为json存进去有利于后续操作	在业务表单填写时保存进来
state	表单状态 默认为4	4 未执行(第一步流程表单数据暂 存草稿,未启动时),
		0 进行中(流程启动后但是未全部 执行完成时)
		1 已办结-审核通过(流程全部节点 审核通过,到达结束节点)
		2 已办结-审核不通过(流程在任何 节点审核不通过时)
		3 已删除 (在流程未流转完成时, 由管理员或发起人删除的流程
callbackUrl	回调地址,用来提示业务表单流程已经走完	流程结束回调的接口,告诉业务流 程已经走完并且附带审批结果
cause	申请原因	在业务表单填写时保存进来
userUnit	申请者单位	在业务表单填写时保存进来
phone	申请者联系电话	在业务表单填写时保存进来
urge	是否催办	默认为 0 不催办
		1催办 催办的会在审批者待办中优 先展示
rekey	流程key	编辑草稿之前选择一个流程时从选 择的信息中读取并保存进来
reid	流程id 在act_re_procdef中为KEY_字段	编辑草稿之前选择一个流程时从选 择的信息中读取并保存进来
createName	流程发起人姓名	流程启动的时候后端读取登录用户 自动保存
createBy	流程发起人username	流程启动的时候后端读取登录用户 自动保存

```
{
    "code": 200,
    "data": 1
}
```

2.4.2查看本人创建草稿:

http://localhost:8089/common/getDrafts post接口传参如下:

```
{
    "title":"草稿",
    "type":"data_sharing"
}
```

可以根据标题模糊查询或者其他字段精确查询可以查看本人创建的草稿,查询后结果例如:

```
{
        "total": 2,
        "data": [
                       "id": "8e7c0cae-32ac-45f6-a05f-181705136464",
                       "authorizedAccount": "v5gim64kv4uwoi0m",
                       "type": "data sharing",
                       "title": "草稿测试1",
                       "reason": "
{\"id\":70,\"accesskeyId\":\"v5gim64kv4uwoi0m\",\"accesskeySecret\":\"ca3bed236b63ce314}
d356008ce0315f5\",\"status\":\"2\",\"startTime\":\"2022-06-09
00:00\",\"endTime\":\"2022-06-20 00:00\",\"applyBy\":\"二级管理员\",\"menuIds\":
[2060,2061],\"scopeId\":8200,\"userUnit\":\"智慧创新研究院
\",\"contactNumber\":\"18686596407\",\"activitiType\":\"data sharing\",\"activitiTitle\
":\"测试气象数据申请\",\"menuNames\":\"非空间数据
\",\"createBy\":\"geoadmin\",\"remark\":\"测试申请气象数据\",\"params\":{}}",
                       "state": "4",
                       "createName": "超级管理员",
                       "createBy": "superadmin",
                       "callbackUrl":
"http://192.168.131.26:38081/system/access/callbackurl",
                       "cause": "测试申请气象数据",
                       "userUnit": "智慧创新研究院",
                       "phone": "18686596407",
                        "urge": "0",
                       "reKey": "resource ty",
                       "reId": "resource ty:1:59394b21-ed56-11ec-9869-72bdf190b8a1"
               },
               {
                       "id": "fa2d2ba3-5e21-41b0-b3d6-f23a90d71ed3",
```

```
"authorizedAccount": "v5gim64kv4uwoi0m",
                       "type": "data sharing",
                       "title": "草稿测试1",
                       "reason": "
{\"id\":70,\"accesskeyId\":\"v5gim64kv4uwoi0m\",\"accesskeySecret\":\"ca3bed236b63ce314
d356008ce0315f5\",\"status\":\"2\",\"startTime\":\"2022-06-09
00:00\",\"endTime\":\"2022-06-20 00:00\",\"applyBy\":\"二级管理员\",\"menuIds\":
[2060,2061],\"scopeId\":8200,\"userUnit\":\"智慧创新研究院
\",\"contactNumber\":\"18686596407\",\"activitiType\":\"data_sharing\",\"activitiTitle\
":\"测试气象数据申请\",\"menuNames\":\"非空间数据
\",\"createBy\":\"geoadmin\",\"remark\":\"测试申请气象数据\",\"params\":{}}",
                       "state": "4",
                       "createName": "超级管理员",
                       "createBy": "superadmin",
                       "callbackUrl":
"http://192.168.131.26:38081/system/access/callbackurl",
                       "cause": "测试申请气象数据",
                       "userUnit": "智慧创新研究院",
                       "phone": "18686596407",
                       "urge": "0",
                       "reKey": "resource_ty",
                       "reId": "resource ty:1:59394b21-ed56-11ec-9869-72bdf190b8a1"
               }
       ],
        "code": 200,
        "msg": "查询成功"
}
```

2.4.3编辑草稿根据id

http://localhost:8089/common/updateDrafts

```
{
       "id": "8e7c0cae-32ac-45f6-a05f-181705136464",
       "authorizedAccount": "v5gim64kv4uwoi0m",
       "type": "data sharing",
       "title": "草稿测试1编辑编辑编辑编辑编辑编辑",
{\"id\":70,\"accesskeyId\":\"v5gim64kv4uwoi0m\",\"accesskeySecret\":\"ca3bed236b63ce314
d356008ce0315f5\",\"status\":\"2\",\"startTime\":\"2022-06-09
00:00\",\"endTime\":\"2022-06-20 00:00\",\"applyBy\":\"二级管理员\",\"menuIds\":
[2060,2061],\"scopeId\":8200,\"userUnit\":\"智慧创新研究院
\",\"contactNumber\":\"18686596407\",\"activitiType\":\"data_sharing\",\"activitiTitle\
":\"测试气象数据申请\",\"menuNames\":\"非空间数据
\",\"createBy\":\"geoadmin\",\"remark\":\"测试申请气象数据\",\"params\":{}}",
       "state": "4",
       "createName": "超级管理员",
       "createBy": "superadmin",
       "callbackUrl": "http://192.168.131.26:38081/system/access/callbackurl",
```

```
"cause": "测试申请气象数据",

"userUnit": "智慧创新研究院",

"phone": "18686596407",

"urge": "0",

"reKey": "resource_ty",

"reId": "resource_ty:1:59394b21-ed56-11ec-9869-72bdf190b8a1"
}
```

返回值

```
{
    "code": 200,
    "data": 1
}
```

可以在流程未启动之前根据草稿的id进行编辑草稿

2.4.4删除草稿根据ids

http://localhost:8089/common/deleteDrafts

传参为一个数组, 例如:

```
["9c178184-5afb-4cfd-9db1-bbfa0102143f","fa2d2ba3-5e21-41b0-b3d6-f23a90d71ed3"]
```

可以多个删除也可以单个删除自己创建的草稿,删除后数据库中将删除该条记录返回值:

```
{
    "code": 200,
    "data": 2
}
```

2.4.5草稿开启流程

http://localhost:8089/common/startDraft

post接口 开启流程传的参数为4.2查看本人草稿中的草稿

```
{
    "id": "8e7c0cae-32ac-45f6-a05f-181705136464",
    "authorizedAccount": "v5gim64kv4uwoi0m",
    "type": "data_sharing",
    "title": "草稿测试1编辑编辑编辑编辑编辑",
```

```
"reason": "
{\"id\":70,\"accesskeyId\":\"v5gim64kv4uwoi0m\",\"accesskeySecret\":\"ca3bed236b63ce314
d356008ce0315f5\",\"status\":\"2\",\"startTime\":\"2022-06-09
00:00\",\"endTime\":\"2022-06-20 00:00\",\"applyBy\":\"二级管理员\",\"menuIds\":
[2060,2061],\"scopeId\":8200,\"userUnit\":\"智慧创新研究院
\",\"contactNumber\":\"18686596407\",\"activitiType\":\"data_sharing\",\"activitiTitle\
":\"测试气象数据申请\",\"menuNames\":\"非空间数据
\",\"createBy\":\"geoadmin\",\"remark\":\"测试申请气象数据\",\"params\":{}}",
   "state": "4",
   "createName": "超级管理员",
   "createBy": "superadmin",
    "callbackUrl": "http://192.168.131.26:38081/system/access/callbackurl",
   "cause": "测试申请气象数据",
   "userUnit": "智慧创新研究院",
    "phone": "18686596407",
   "urge": "0",
   "reKey": "resource ty",
   "reId": "resource_ty:1:59394b21-ed56-11ec-9869-72bdf190b8a1"
}
```

返回值

```
{
    "code": 200,
    "data": 1
}
```

根据草稿中的rekey和reld进行确定一个部署的流程进行开启流程

2.5.审核节点

会根据bpmn文件中配置的\${role1},\${role104}来判断审批人名单进行流程开始,并且自动流转到第一个审核节点

每个审核节点完成时,可以对该条流程进行传参,我们默认为number,提前在流程流转线上设定好当number为0,1,2等时流转到哪个节点

2.5.1待办列表查询 (我的待办)

http://localhost:8089/task/list?pageNum=1&pageSize=10

可以根据流程创建人昵称、流程标题进行模糊查询,精确到某一天进行查询当天创建的流程 post接口

传参例如:

```
{
    "createName": "超级",
    "title": "编辑",
    "createTime": "2022-06-21 17:27:41"
}
```

返回值:

```
{
        "total": 2,
        "data": [
                       "params": {},
                       "id": "51b903fe-f12b-11ec-b53d-005056c00001",
                       "name": "管理员审批",
                       "status": "CREATED",
                       "createdDate": "2022-06-21 14:28:09",
                       "instanceName": "草稿测试1编辑编辑编辑编辑编辑编辑",
                       "definitionKey": "resource_ty",
                       "businessKey": "8e7c0cae-32ac-45f6-a05f-181705136464",
                       "startUserId": "superadmin",
                       "startUserName": "超级管理员",
                        "business": {
                               "scopeId": 8200,
                               "activitiTitle": "测试气象数据申请",
                               "remark": "测试申请气象数据",
                               "accesskeySecret": "ca3bed236b63ce314d356008ce0315f5",
                               "params": {},
                               "activitiType": "data sharing",
                               "menuNames": "非空间数据",
                               "accesskeyId": "v5gim64kv4uwoi0m",
                               "userUnit": "智慧创新研究院",
                               "createBy": "geoadmin",
                               "contactNumber": "18686596407",
                               "startTime": "2022-06-09 00:00",
                               "id": 70,
                               "endTime": "2022-06-20 00:00",
                               "menuIds": [
                                       2060,
                                       2061
                               "applyBy": "二级管理员",
                               "status": "2"
                       },
                       "resourceApplication": {
                               "id": "8e7c0cae-32ac-45f6-a05f-181705136464",
                               "authorizedAccount": "v5gim64kv4uwoi0m",
                               "type": "data_sharing",
```

```
"title": "草稿测试1编辑编辑编辑编辑编辑",
                               "reason": "
{\"id\":70,\"accesskeyId\":\"v5gim64kv4uwoi0m\",\"accesskeySecret\":\"ca3bed236b63ce314
d356008ce0315f5\",\"status\":\"2\",\"startTime\":\"2022-06-09
00:00\",\"endTime\":\"2022-06-20 00:00\",\"applyBy\":\"二级管理员\",\"menuIds\":
[2060,2061],\"scopeId\":8200,\"userUnit\":\"智慧创新研究院
\",\"contactNumber\":\"18686596407\",\"activitiType\":\"data sharing\",\"activitiTitle\
":\"测试气象数据申请\",\"menuNames\":\"非空间数据
\",\"createBy\":\"geoadmin\",\"remark\":\"测试申请气象数据\",\"params\":{}}",
                               "instanceId": "d7cc710e-f12b-11ec-b53d-005056c00001",
                               "state": "0",
                               "createName": "超级管理员",
                               "createBy": "superadmin",
                               "createTime": "2022-06-21 14:31:55",
                               "updateTime": "2022-06-21 14:31:21",
                               "callbackUrl":
"http://192.168.131.26:38081/system/access/callbackurl",
                               "updateBy": "superadmin",
                               "cause": "测试申请气象数据",
                               "userUnit": "智慧创新研究院",
                               "phone": "18686596407",
                               "updateName": "超级管理员",
                               "urge": "0",
                               "reKey": "resource ty",
                               "reId": "resource ty:1:59394b21-ed56-11ec-9869-
72bdf190b8a1",
                               "transferTime": "2022-06-21T14:31:55.000+08:00"
                       }
               },
                       "params": {},
                       "id": "d7cc7117-f12b-11ec-b53d-005056c00001",
                       "name": "管理员审批",
                       "status": "CREATED",
                       "createdDate": "2022-06-21 14:31:54",
                       "instanceName": "草稿测试1编辑编辑编辑编辑编辑编辑",
                       "definitionKey": "resource_ty",
                       "businessKey": "8e7c0cae-32ac-45f6-a05f-181705136464",
                       "startUserId": "superadmin",
                       "startUserName": "超级管理员",
                       "business": {
                               "scopeId": 8200,
                               "activitiTitle": "测试气象数据申请",
                               "remark": "测试申请气象数据",
                               "accesskeySecret": "ca3bed236b63ce314d356008ce0315f5",
                               "params": {},
                               "activitiType": "data_sharing",
                               "menuNames": "非空间数据",
                               "accesskeyId": "v5gim64kv4uwoi0m",
```

```
"userUnit": "智慧创新研究院",
                               "createBy": "geoadmin",
                               "contactNumber": "18686596407",
                               "startTime": "2022-06-09 00:00",
                               "id": 70,
                               "endTime": "2022-06-20 00:00",
                               "menuIds": [
                                       2060,
                                       2061
                               ],
                               "applyBy": "二级管理员",
                               "status": "2"
                       },
                        "resourceApplication": {
                               "id": "8e7c0cae-32ac-45f6-a05f-181705136464",
                               "authorizedAccount": "v5gim64kv4uwoi0m",
                               "type": "data sharing",
                               "title": "草稿测试1编辑编辑编辑编辑编辑编辑",
                               "reason": "
{\"id\":70,\"accesskeyId\":\"v5qim64kv4uwoi0m\",\"accesskeySecret\":\"ca3bed236b63ce314
\tt d356008ce0315f5\\", `"status\\": `"2\\", `"startTime\\": `"2022-06-09
00:00\",\"endTime\":\"2022-06-20 00:00\",\"applyBy\":\"二级管理员\",\"menuIds\":
[2060,2061],\"scopeId\":8200,\"userUnit\":\"智慧创新研究院
\",\"contactNumber\":\"18686596407\",\"activitiType\":\"data sharing\",\"activitiTitle\
":\"测试气象数据申请\",\"menuNames\":\"非空间数据
\",\"createBy\":\"geoadmin\",\"remark\":\"测试申请气象数据\",\"params\":{}}",
                               "instanceId": "d7cc710e-f12b-11ec-b53d-005056c00001",
                               "state": "0",
                               "createName": "超级管理员",
                               "createBy": "superadmin",
                               "createTime": "2022-06-21 14:31:55",
                               "updateTime": "2022-06-21 14:31:21",
                               "callbackUrl":
"http://192.168.131.26:38081/system/access/callbackurl",
                               "updateBy": "superadmin",
                               "cause": "测试申请气象数据",
                               "userUnit": "智慧创新研究院",
                               "phone": "18686596407",
                               "updateName": "超级管理员",
                               "urge": "0",
                               "reKey": "resource ty",
                               "reId": "resource_ty:1:59394b21-ed56-11ec-9869-
72bdf190b8a1",
                               "transferTime": "2022-06-21T14:31:55.000+08:00"
                       }
               }
       ],
        "code": 200,
        "msg": "查询成功"
```

}

可以根据申请者昵称、流程名称模糊查询,根据创建时间进行精确到某一天进行查询

2.5.2审批

http://localhost:8089/task/formDataSave/51b903fe-f12b-11ec-b53d-005056c00001

post接口 传参如下:

```
{
"controlId": "number",
"controlSuggestion": "通过",
"controlValue": 0
}
```

字段	备注
controlld	默认为number 即流程流转到下一节点到哪个节点,是审批通过还是不通过的判定条件参数名称
controlSuggestion	审批意见
controlValue	number的值,用来判断是否审批成功 例如0为通过 1为不通过

返回值

```
{
   "code": 200,
   "data": 1
}
```

2.5.3已办列表查询 (查看我审批完的所有流程)

http://localhost:8089/workflow/resource/listAll?pageNum=1&pageSize=10

post接口 传参如下:

```
{
"createName": "超级",
"title": "数",
"createTime": "2022-06-16 17:27:41"
}
```

字段	备注	查询类型
createName	创建人昵称	模糊查询
title	事件名称	模糊查询
createTime	创建时间	精确到某一天

```
{
    "total": 2,
    "data": [
       {
            "id": "1f7f7310-7555-4137-ae86-7b35118c12d8",
            "authorizedAccount": "slmcb5q53wvut20s",
            "type": "data sharing",
            "title": "数据共享测试一",
            "reason": "
{\"id\":97,\"accesskeyId\":\"slmcb5q53wvut20s\",\"accesskeySecret\":\"9a01ca9706774d56b
4728a28d6869aa3\",\"status\":\"2\",\"startTime\":\"2022-05-30
00:00\",\"endTime\":\"2022-07-13 00:00\",\"applyBy\":\"超级管理员\",\"menuIds\":
[2043],\"userUnit\":\"中科星图
\",\"contactNumber\":\"15888888888\",\"activitiType\":\"data sharing\",\"activitiTitle\
":\"数据共享测试一\",\"menuNames\":\"影像服务
WMS\",\"createBy\":\"superadmin\",\"remark\":\"描述\",\"params\":{}}",
            "instanceId": "fe2673fe-ed1d-11ec-a97b-5e79c29df956",
            "state": "1",
            "createName": "超级管理员",
            "createBy": "superadmin",
            "suggestion": "ok",
            "createTime": "2022-06-16 10:42:42",
            "updateTime": "2022-06-16 10:43:51",
            "callbackUrl": "http://192.168.131.26:38081/system/access/callbackurl",
            "business": {
                "activitiTitle": "数据共享测试一",
                "remark": "描述",
                "accesskeySecret": "9a01ca9706774d56b4728a28d6869aa3",
                "params": {},
                "activitiType": "data sharing",
                "menuNames": "影像服务WMS",
                "accesskeyId": "slmcb5q53wvut20s",
                "userUnit": "中科星图",
                "createBy": "superadmin",
                "contactNumber": "15888888888",
                "startTime": "2022-05-30 00:00",
                "id": 97,
                "endTime": "2022-07-13 00:00",
                "menuIds": [
```

```
2043
              ],
              "applyBy": "超级管理员",
              "status": "2"
           },
           "updateBy": "超级管理员",
           "cause": "描述",
           "userUnit": "中科星图",
           "phone": "15888888888",
           "updateName": "超级管理员",
           "urge": "1",
           "urgeReason": "还不给办?? 撒大声地2222222222222",
           "transferTime": "2022-06-16T10:43:50.000+08:00"
       },
       {
           "id": "1fa5c674-527b-43fc-967b-630981bfce88",
           "authorizedAccount": "u6anstu585po96lq",
           "type": "data_subscription",
           "title": "数据订阅测试通",
           "reason": "
a26a6fd61a82e4d\",\"status\":\"2\",\"startTime\":\"2022-06-22
00:00\",\"endTime\":\"2022-07-26 00:00\",\"applyBy\":\"超级管理员
\",\"topics\":\"SocketData01\",\"topicNames\":\"示例数据处理任务02###TCP协议传感器数据
01\",\"userUnit\":\"中科星图
\",\"contactNumber\":\"15888888888\",\"activitiType\":\"data_subscription\",\"activitiT
itle\":\"数据订阅测试通\",\"createBy\":\"superadmin\",\"remark\":\"-\",\"params\":{}}",
           "instanceId": "ceb5ad6f-ed1d-11ec-a97b-5e79c29df956",
           "state": "1",
           "createName": "超级管理员",
           "createBy": "superadmin",
           "suggestion": "ok",
           "createTime": "2022-06-16 10:41:22",
           "updateTime": "2022-06-16 10:43:27",
           "callbackUrl": "http://192.168.131.26:38081/system/access/callbackurl",
           "business": {
              "topics": "SocketData01",
               "activitiTitle": "数据订阅测试通",
              "remark": "-",
              "accesskeySecret": "6847ab87565e6f88aa26a6fd61a82e4d",
               "params": {},
              "activitiType": "data_subscription",
              "accesskeyId": "u6anstu585po96lq",
               "userUnit": "中科星图",
               "createBy": "superadmin",
              "topicNames": "示例数据处理任务02###TCP协议传感器数据01",
               "contactNumber": "15888888888",
              "startTime": "2022-06-22 00:00",
              "id": 96,
```

2.5.4我提交的流程列表查询 (查看我提交的流程列表)

http://localhost:8089/workflow/resource/listPersonal?pageNum=1&pageSize=10

post接口 传参如下

```
{
    "createName": "超级",
    "title": "数",
    "createTime": "2022-06-16 17:27:41"
}
```

字段	备注	查询类型
createName	创建人昵称	模糊查询
title	事件名称	模糊查询
createTime	创建时间	精确到某一天

```
"reason": "
{\"id\":70,\"accesskeyId\":\"v5gim64kv4uwoi0m\",\"accesskeySecret\":\"ca3bed236b63ce314
d356008ce0315f5\",\"status\":\"2\",\"startTime\":\"2022-06-09
00:00\",\"endTime\":\"2022-06-20 00:00\",\"applyBy\":\"二级管理员\",\"menuIds\":
[2060,2061],\"scopeId\":8200,\"userUnit\":\"智慧创新研究院
\",\"contactNumber\":\"18686596407\",\"activitiType\":\"data_sharing\",\"activitiTitle\
":\"测试气象数据申请\",\"menuNames\":\"非空间数据
\",\"createBy\":\"geoadmin\",\"remark\":\"测试申请气象数据\",\"params\":{}}",
                       "instanceId": "d7cc710e-f12b-11ec-b53d-005056c00001",
                       "taskName": "管理员审批",
                       "state": "1",
                       "createName": "超级管理员",
                       "createBy": "superadmin",
                       "suggestion": "通过",
                       "createTime": "2022-06-21 14:31:55",
                       "updateTime": "2022-06-21 14:33:58",
                       "callbackUrl":
"http://192.168.131.26:38081/system/access/callbackurl",
                       "business": {
                               "scopeId": 8200,
                               "activitiTitle": "测试气象数据申请",
                               "remark": "测试申请气象数据",
                               "accesskeySecret": "ca3bed236b63ce314d356008ce0315f5",
                               "params": {},
                               "activitiType": "data sharing",
                               "menuNames": "非空间数据",
                               "accesskeyId": "v5gim64kv4uwoi0m",
                               "userUnit": "智慧创新研究院",
                               "createBy": "geoadmin",
                               "contactNumber": "18686596407",
                               "startTime": "2022-06-09 00:00",
                               "id": 70,
                               "endTime": "2022-06-20 00:00",
                               "menuIds": [
                                       2060,
                                       2061
                               "applyBy": "二级管理员",
                               "status": "2"
                       },
                       "updateBy": "超级管理员",
                       "cause": "测试申请气象数据",
                       "userUnit": "智慧创新研究院",
                       "phone": "18686596407",
                       "updateName": "超级管理员",
                       "urge": "0",
                       "reKey": "resource_ty",
                       "reId": "resource ty:1:59394b21-ed56-11ec-9869-72bdf190b8a1",
                       "transferTime": "2022-06-21T14:31:55.000+08:00"
```

```
}
],
"code": 200,
"msg": "查询成功"
}
```

2.5.5流程催办

http://localhost:8089/common/urge post接口传参如下

```
{
    "id":"8e7c0cae-32ac-45f6-a05f-181705136464",
    "urge":"1",
    "urgeReason":"还不给办? ? 快点的2222222222222
```

字段	备注
id	是在我提交的流程列表查询 中查询出的申请记录id
urge	1为催办,0为不催办 催办的会在5.1 待办列表查询中优先展示

返回值

```
{
    "code": 200,
    "data": 1
}
```

2.5.6流程删除

http://localhost:8089/workflow/resource/deleteByIds

post接口 传参为数组

```
[
"ce0b33c7-b28a-458f-881c-9e07aaf692d5"
]
```

参数为 是在我提交的流程列表查询 中查询出的申请记录id 用户删除会撤回正在审批的记录,在数据库中会将状态state设置为3, 这条申请记录不会在数据库中消失,但是管理员待办会查不到

```
{
   "code": 200,
   "data": 1
}
```

2.5.7根据角色ID查询属于该角色的所有用户信息

2.5.7.1获取审批人信息根据任务里的审批人组

http://localhost:8089/common/getExamine post接口传参如下

```
{
    "examine":"role1,role104,"
}
```

返回值

```
{
    "code": 200,
    "data": [
       {
           "id": "1",
           "name": "超级管理员",
           "phonenumber": "15888888888",
           "address": "中科星图"
       },
           "id": "108",
           "name": "二级管理员",
           "phonenumber": "18686596407",
           "address": "中科星图"
       }
   ]
}
```

examine为任务里的审批人组

2.5.7.2获取审批人信息通过用户id

http://localhost:8089/common/getExamineById

post接口 传参如下

```
{
    "id":"1"
}
```

id为用户id 返回值

```
"code": 200,
  "data": {
        "id": "1",
        "name": "超级管理员",
        "phonenumber": "15888888888",
        "address": "中科星图"
}
```

2.5.8已发布的流程根据执行工作流程ID查询所有执行节点信息

http://localhost:8089/common/getTasks post接口 传参如下

```
{
"instanceId":"02a26f07-f042-llec-ae05-005056c00001"
}
```

instanceld 为 执行工作流程ID

```
{
    "total": 1,
    "data": [
        {
            "createBy": "superadmin",
            "createTime": "2022-06-21T14:30:40.000+08:00",
            "params": {},
            "id": 259,
            "businessKey": "37a1334c-7cc5-4e33-8669-dbf143e151ee",
            "formKey": "deptLeaderVerify",
            "controlId": "number",
            "controlSuggestion": "通过",
            "controlValue": "0",
            "taskNodeName": "管理员审批",
            "createName": "超级管理员",
            "roleId": "1",
            "createId": "1",
            "runState": "1",
            "arriveTime": "2022-06-20T10:38:04.000+08:00",
            "examine": "role1, role104,"
        }
    ],
```

```
"code": 200,
"msg": "查询成功"
}
```

2.5.9根据流程ID和流程节点ID查询节点信息

http://localhost:8089/common/getTasksByFormKey

post接口 传参如下

```
{
"instanceId":"02a26f07-f042-llec-ae05-005056c00001",
"formKey":"deptLeaderVerify"
}
```

```
instanceId | 执行工作流程ID
formKey|流程节点id
```

2.5.10流程信息查询

http://localhost:8089/workflow/resource/list?pageNum=1&pageSize=9

post接口 传参如下:

```
{
    "title": "一",
    "createName": "超级管理员",
    "state": "1"
}
```

字段	备注
title	事项名称
createName	申请人昵称
state	审核状态,这里是流程状态
	4 未执行(第一步流程表单数据暂存草稿,未启动时)
	0 进行中(流程启动后但是未全部执行完成时)
	1 已办结-审核通过(流程全部节点审核通过,到达结束节点)
	2 已办结-审核不通过(流程在任何节点审核不通过时)
	3 已删除 (在流程未流转完成时,由管理员或发起人删除的流程

返回值

```
{
   "code": 200,
   "data": {
        "createBy": "superadmin",
        "createTime": "2022-06-21T14:30:40.000+08:00",
        "params": {},
        "id": 259,
        "businessKey": "37a1334c-7cc5-4e33-8669-dbf143e151ee",
        "formKey": "deptLeaderVerify",
        "controlId": "number",
        "controlSuggestion": "通过",
        "controlValue": "0",
        "taskNodeName": "管理员审批",
        "createName": "超级管理员",
        "roleId": "1",
        "createId": "1",
        "runState": "1",
        "arriveTime": "2022-06-20T10:38:04.000+08:00",
       "examine": "role1, role104,"
   }
}
```

2.6.流程流转

2.6.1流程图概览(调接口下载并展示一张图 能看到流程所有节点等信息的图,和当前进行节点高亮)

2.6.1.1获取流程部署id和name通过 正在运行 的流程instanceId

http://localhost:8089/processDefinition/getDefinitions/d7cc710e-f12b-11ec-b53d-005056c00001
get接口 返回结果:

2.6.1.2获取流程图通过部署id和name

http://localhost:8089/processDefinition/getDefinitionXML get接口 请求参数为form表单 传参为6.1查询出的结果

KEY	VALUE
deploymentId	5934902f-ed56-11ec-9869-72bdf190b8a1
resourceName	resource_ty.bpmn
返回值为流程bpmn的xml文件	

2.6.1.3流程图高亮

http://localhost:8089/activitiHistory/gethighLine get请求 请求参数为form表单 传参为

instanceId d7cc710e-f12b-11ec-b53d-005056c00001

```
KEY VALUE
```

```
instanceId | 要查询的 流程id
```

```
{
    "code": 200,
    "data": {
        "highPoint": [
```

```
"starteventresource"
],
    "highLine": [
          null,
          "flow2"
],
    "waitingToDo": [
          "deptLeaderVerify"
],
    "iDo": []
}
```

2.6.2统计接口统计接口 (根据 流程分类 过滤后按 流程状态 统计各状态的流程数量)

http://localhost:8089/common/getNumbersOfWorkflow post请求 请求参数如下:

```
{
    "type":"data_sharing"
}
```

返回结果

```
"code": 200,
   "data": {
        "wait": 1,
        "refuse": 0,
        "pass": 2
}
```

字段	备注
wait	正在运行的流程
refuse	被拒绝的流程
pass	通过的流程

2.6.3流程流转到哪个相邻的节点见5.2

http://localhost:8089/task/formDataSave/91bf0cfd-ed56-11ec-9ad7-005056c00001 post接口 传参如下

```
{
    "controlId": "number",
    "controlSuggestion": "通过",
    "controlValue": 0
}
```

字段	备注
controlld	默认为number 即流程流转到下一节点到哪个节点,是审批通过还是不通过的判定条件参数名称
controlSuggestion	审批意见
controlValue	number的值,用来判断是否审批成功 例如0为通过 1为不通过

2.7.流程结束

流程结束详细原理请见2.1.3