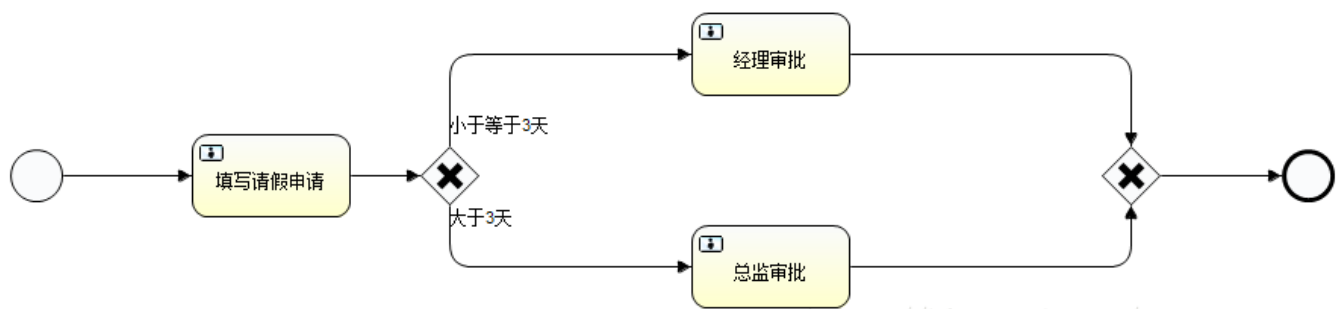
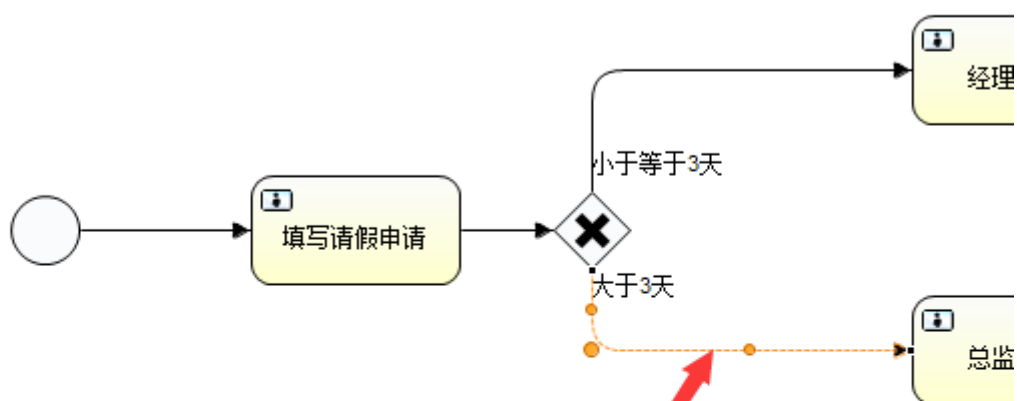


## Activiti 6.x



<https://blog.csdn.net/Pan1458689676>

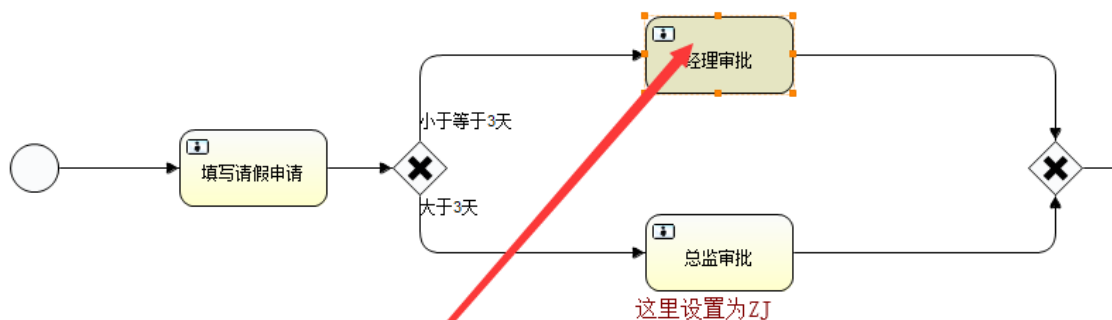
**condition**



Problems Progress Properties JUnit

Label width (50-500)	42
Skip expression	
Condition	<code>\${days&gt;3}</code>

<https://blog.csdn.net/Pan1458689676>



Console Problems Progress Properties JUnit

General Assignee

**Main config** Candidate use...ma separated)

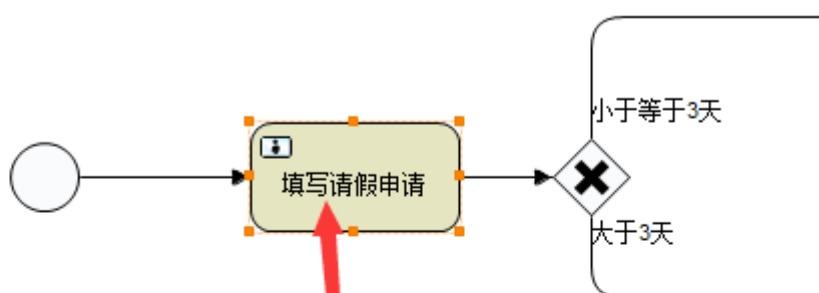
Documentation Candidate gro...ma separated) **HR**

Form Form key

Listeners

Multi instance Due date (variable)

<https://blog.esdn.net/Pan1458689676>



用于后台指定 workflow 任务  
负责人，即请假人

Console Problems Progress Properties JUnit

General Assignee **\${userKey}**

**Main config** Candidate use...ma separated)

Documentation

<https://blog.esdn.net/Pan1458689676>

```

<?xml version="1.0" encoding="UTF-8"?>
<definitions xmlns="http://www.omg.org/spec/BPMN/20100524/MODEL"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

```

```

xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:activiti="http://activiti.org/bpmn"
xmlns:bpmndi="http://www.omg.org/spec/BPMN/20100524/DI"
xmlns:omgdc="http://www.omg.org/spec/DD/20100524/DC"
xmlns:omgdi="http://www.omg.org/spec/DD/20100524/DI"
typeLanguage="http://www.w3.org/2001/XMLSchema"
expressionLanguage="http://www.w3.org/1999/XPath" targetNamespace="EmployeeAskForLeave">
  <process id="myProcess" name="      " isExecutable="true">
    <startEvent id="startevent1" name="Start"></startEvent>
    <endEvent id="endevent1" name="End"></endEvent>
    <sequenceFlow id="flow1" sourceRef="startevent1" targetRef="usertask1"></sequenceFlow>
    <userTask id="usertask1" name="      " activiti:assignee="{userKey}"></userTask>
    <exclusiveGateway id="exclusivegateway1" name="      "></exclusiveGateway>
    <sequenceFlow id="flow2" sourceRef="usertask1"
targetRef="exclusivegateway1"></sequenceFlow>
    <userTask id="usertask2" name="      " activiti:candidateGroups="HR"></userTask>
    <userTask id="usertask3" name="      " activiti:candidateGroups="ZJ"></userTask>
    <sequenceFlow id="flow3" name="      3 " sourceRef="exclusivegateway1"
targetRef="usertask2">
      <conditionExpression
xsi:type="tFormalExpression"><![CDATA[ ${days<=3}]]></conditionExpression>
    </sequenceFlow>
    <sequenceFlow id="flow4" name="      3 " sourceRef="exclusivegateway1"
targetRef="usertask3">
      <conditionExpression
xsi:type="tFormalExpression"><![CDATA[ ${days>3}]]></conditionExpression>
    </sequenceFlow>
    <exclusiveGateway id="exclusivegateway2" name="      "></exclusiveGateway>
    <sequenceFlow id="flow5" sourceRef="usertask2"
targetRef="exclusivegateway2"></sequenceFlow>
    <sequenceFlow id="flow6" sourceRef="usertask3"
targetRef="exclusivegateway2"></sequenceFlow>
    <sequenceFlow id="flow7" sourceRef="exclusivegateway2"
targetRef="endevent1"></sequenceFlow>
  </process>
  <bpmndi:BPMNDiagram id="BPMNDiagram_myProcess">
    <bpmndi:BPMNPlane bpmnElement="myProcess" id="BPMNPlane_myProcess">
      <bpmndi:BPMNShape bpmnElement="startevent1" id="BPMNShape_startevent1">
        <omgdc:Bounds height="35.0" width="35.0" x="200.0" y="220.0"></omgdc:Bounds>
      </bpmndi:BPMNShape>

```

```

<bpmndi: BPMNShape bpmnElement="endevent1" id="BPMNShape_endevent1">
  <omgdc: Bounds height="35.0" width="35.0" x="1040.0" y="220.0"></omgdc: Bounds>
</bpmndi: BPMNShape>
<bpmndi: BPMNShape bpmnElement="user task1" id="BPMNShape_user task1">
  <omgdc: Bounds height="55.0" width="105.0" x="320.0" y="210.0"></omgdc: Bounds>
</bpmndi: BPMNShape>
<bpmndi: BPMNShape bpmnElement="exclusivegateway1"
id="BPMNShape_exclusivegateway1">
  <omgdc: Bounds height="40.0" width="40.0" x="470.0" y="217.0"></omgdc: Bounds>
</bpmndi: BPMNShape>
<bpmndi: BPMNShape bpmnElement="user task2" id="BPMNShape_user task2">
  <omgdc: Bounds height="55.0" width="105.0" x="650.0" y="130.0"></omgdc: Bounds>
</bpmndi: BPMNShape>
<bpmndi: BPMNShape bpmnElement="user task3" id="BPMNShape_user task3">
  <omgdc: Bounds height="55.0" width="105.0" x="650.0" y="270.0"></omgdc: Bounds>
</bpmndi: BPMNShape>
<bpmndi: BPMNShape bpmnElement="exclusivegateway2"
id="BPMNShape_exclusivegateway2">
  <omgdc: Bounds height="40.0" width="40.0" x="920.0" y="217.0"></omgdc: Bounds>
</bpmndi: BPMNShape>
<bpmndi: BPMNEdge bpmnElement="flow1" id="BPMNEdge_flow1">
  <omgdi: waypoint x="235.0" y="237.0"></omgdi: waypoint>
  <omgdi: waypoint x="320.0" y="237.0"></omgdi: waypoint>
</bpmndi: BPMNEdge>
<bpmndi: BPMNEdge bpmnElement="flow2" id="BPMNEdge_flow2">
  <omgdi: waypoint x="425.0" y="237.0"></omgdi: waypoint>
  <omgdi: waypoint x="470.0" y="237.0"></omgdi: waypoint>
</bpmndi: BPMNEdge>
<bpmndi: BPMNEdge bpmnElement="flow3" id="BPMNEdge_flow3">
  <omgdi: waypoint x="490.0" y="217.0"></omgdi: waypoint>
  <omgdi: waypoint x="490.0" y="157.0"></omgdi: waypoint>
  <omgdi: waypoint x="650.0" y="157.0"></omgdi: waypoint>
  <bpmndi: BPMNLabel>
    <omgdc: Bounds height="14.0" width="66.0" x="490.0" y="198.0"></omgdc: Bounds>
  </bpmndi: BPMNLabel>
</bpmndi: BPMNEdge>
<bpmndi: BPMNEdge bpmnElement="flow4" id="BPMNEdge_flow4">
  <omgdi: waypoint x="490.0" y="257.0"></omgdi: waypoint>
  <omgdi: waypoint x="490.0" y="297.0"></omgdi: waypoint>

```

```

        <omgdi: waypoint x="650.0" y="297.0"></omgdi: waypoint>
        <bpmndi: BPMNLabel>
            <omgdc: Bounds height="14.0" width="42.0" x="490.0" y="257.0"></omgdc: Bounds>
        </bpmndi: BPMNLabel>
    </bpmndi: BPMNEdge>
    <bpmndi: BPMNEdge bpmnElement="flow5" id="BPMNEdge_flow5">
        <omgdi: waypoint x="755.0" y="157.0"></omgdi: waypoint>
        <omgdi: waypoint x="940.0" y="157.0"></omgdi: waypoint>
        <omgdi: waypoint x="940.0" y="217.0"></omgdi: waypoint>
    </bpmndi: BPMNEdge>
    <bpmndi: BPMNEdge bpmnElement="flow6" id="BPMNEdge_flow6">
        <omgdi: waypoint x="755.0" y="297.0"></omgdi: waypoint>
        <omgdi: waypoint x="940.0" y="297.0"></omgdi: waypoint>
        <omgdi: waypoint x="940.0" y="257.0"></omgdi: waypoint>
    </bpmndi: BPMNEdge>
    <bpmndi: BPMNEdge bpmnElement="flow7" id="BPMNEdge_flow7">
        <omgdi: waypoint x="960.0" y="237.0"></omgdi: waypoint>
        <omgdi: waypoint x="1040.0" y="237.0"></omgdi: waypoint>
    </bpmndi: BPMNEdge>
</bpmndi: BPMNPlane>
</bpmndi: BPMNDiagram>
</definitions>

```

```

//
@Test
public void prepare() {
    Deployment deployment = repositoryService.createDeployment() //
        .name(" ")
        .addClasspathResource("bpmn/MyProcess.bpmn")
        .addClasspathResource("bpmn/MyProcess.png")
        .deploy();

    System.out.println(" ID "+deployment.getId());
    System.out.println(" "+deployment.getName());

    Group group1 = identityService.newGroup("HR");
    group1.setName("HR");
    group1.setType("HRassignment");
    identityService.saveGroup(group1); // HR
}

```

```

Group group2 = identityService.newGroup("ZJ");
group2.setName("ZJ");
group2.setType("ZJassignment");
identityService.saveGroup(group2); // ZJ

Group group3 = identityService.newGroup("EP");
group3.setName("EP");
group3.setType("EPassignment");
identityService.saveGroup(group3); //

//newUser key
identityService.saveUser(identityService.newUser("HR1")); //
identityService.saveUser(identityService.newUser("HR2")); //
identityService.saveUser(identityService.newUser("ZJ")); //
identityService.saveUser(identityService.newUser("ZJ2")); //
identityService.saveUser(identityService.newUser("PTM")); //

identityService.createMembership("HR1", "HR");
identityService.createMembership("HR2", "HR");
identityService.createMembership("ZJ", "ZJ");
identityService.createMembership("ZJ2", "ZJ");
identityService.createMembership("PTM", "EP");
}

```

```

/**      */
@Test
public void start() {

    String userKey="PTM"; //
    String processDefinitionKey ="myProcess"; //      key      bpmn
    HashMap<String, Object> variables=new HashMap<>();
    variables.put("userKey", userKey); //userKey

    ProcessInstance instance=runtimeService
        .startProcessInstanceByKey(processDefinitionKey, variables);

    System.out.println("      ID: "+instance.getId());
    System.out.println("      ID: "+instance.getProcessDefinitionId());
}

```

2018-05-11 10:48:41.012 INFO

流程实例ID:47501

流程定义ID:myProcess:1:37504

User

ACT\_RE\_PROCDEF  
ACT\_RV\_DEADLETTER\_JOB  
ACT\_RV\_EVENT\_SUBSCR  
ACT\_RV\_EXECUTION  
ACT\_RV\_IDENTITYLINK  
ACT\_RV\_JOB  
ACT\_RV\_SUSPENDED\_JOB  
ACT\_RV\_TASK  
ACT\_RV\_TIMER\_JOB  
ACT\_RV\_VARIABLE  
Test  
Test

1 信息 2 表数据 3 信息							
ID	REV	GROUP_ID	TYPE	USER_ID	TASK_ID	PROC_INST_ID	PROC_DEF_ID
47507	1	(NULL)	participant	FTM	(NULL)	47501	(NULL)
(NULL)	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)

<https://blog.csdn.net/Pan1458689676>

## TaskService

```
/**  
 */  
  
@Test  
public void findTask(){  
    String assignee = "FTM";  
    List<Task> list = taskService.createTaskQuery()  
        .taskAssignee(assignee)  
        .list();  
    if(list!=null && list.size()>0){  
        for(Task task: list){  
            System.out.println(" ID: "+task.getId());  
            System.out.println(" : "+task.getName());  
            System.out.println(" : "+task.getCreateTime());  
            System.out.println(" : "+task.getAssignee());  
            System.out.println(" ID "+task.getProcessInstanceId());  
            System.out.println(" ID: "+task.getExecutionId());  
            System.out.println(" ID: "+task.getProcessDefinitionId());  
        }  
    }  
}
```

Query

EF



```

89     }
90
91     /**查询当前人的个人任务*/
92     @Test
93     public void findTask(){
94         String assignee = "PTM";
95         List<Task> list = taskService.createTaskQuery()//创建任务查询对象
96             .taskAssignee(assignee)//指定个人任务查询,指定办理人
97             .list();
98         if(list!=null && list.size()>0){
99             for(Task task:list){
100                 System.out.println("任务ID:"+task.getId());
101                 System.out.println("任务名称:"+task.getName());
102                 System.out.println("任务的创建时间:"+task.getCreateTime());
103                 System.out.println("任务的办理人:"+task.getAssignee());
104                 System.out.println("流程实例ID:"+task.getProcessInstanceId());
105                 System.out.println("执行对象ID:"+task.getExecutionId());
106                 System.out.println("流程定义ID:"+task.getProcessDefinitionId());
107             }
108         }
109     }

```

Console Problems Progress Properties JUnit

<terminated> FullSimpleDemoTest.findMyPersonalTask [JUnit] D:\Java\jdk1.8.0\_131\bin\javaw.exe (2018年9月11日 上午1:

```

任务ID:47506
任务名称:填写请假申请
任务的创建时间:Tue Sep 11 10:48:42 CST 2018
任务的办理人:PTM
流程实例ID: 47501
执行对象ID:47503
流程定义ID:myProcess:1:37504

```

<https://blog.csdn.net/Pan1458689676>  
Thread-61 s.c.a.AnnotationConfigApplicationContext :

```

/** */
@Test
public void completeTask(){
    // ID
    String taskId = "47506";

    HashMap<String, Object> variables=new HashMap<>();
    variables.put("days", 4); //userKey

    taskService.complete(taskId, variables);
    System.out.println("        ID "+taskId);
}

```

days=4

```

/** */
@Test
public void findTaskGroup(){

```

```

//String assignee = "PTM";
List<Task> list = taskService.createTaskQuery()//
    .taskCandidateUser("ZJ")//
    .list();
String taskid = "";
String instanceId = "";
if(list!=null && list.size()>0){
    for(Task task: list){
        System.out.println(" ID: "+task.getId());
        System.out.println(" : "+task.getName());
        System.out.println(" : "+task.getCreateTime());
        System.out.println(" : "+task.getAssignee());
        System.out.println(" ID "+task.getProcessInstanceId());
        System.out.println(" ID: "+task.getExecutionId());
        System.out.println(" ID: "+task.getProcessDefinitionId());
        taskid=task.getId();
        instanceId = task.getProcessInstanceId();
    }
}
// [ ]
//List<IdentityLink> listIdentity = taskService.getIdentityLinksForTask(taskid);
List<IdentityLink> listIdentity =
runtimeService.getIdentityLinksForProcessInstance(instanceId);
for(IdentityLink identityLink: listIdentity ){
    System.out.println("userId="+identityLink.getUserId());
    System.out.println("taskId="+identityLink.getTaskId());
    System.out.println("piId="+identityLink.getProcessInstanceId());
}
}

```

```

146     }
147 }
148 //taskService.claim(taskId, userId);
149
150 //List<IdentityLink> listIdentity = taskService.getIdentityLinksForTask(taskid);
151 List<IdentityLink> listIdentity = runtimeService
152     .getIdentityLinksForProcessInstance(instanceId);
153 for(IdentityLink identityLink: listIdentity ){
154     System.out.println("userId="+identityLink.getUserId());
155     System.out.println("taskId="+identityLink.getTaskId());
156     System.out.println("piId="+identityLink.getProcessInstanceId());
157 }
158
159 }
160 }
161

```

Console Problems Progress Properties JUnit

<terminated> FullSimpleDemoTest.findTaskGroup [JUnit] D:\Java\jdk1.8.0\_131\bin\javaw.exe (2018年9月11日 下午12:41:41)

任务ID:52504  
 任务名称:总监审批  
 任务的创建时间:Tue Sep 11 11:12:02 CST 2018  
 任务的办理人:null  
 流程实例ID: 47501  
 执行对象ID:47503  
 流程定义ID:myProcess:1:37504  
 userId=PTM  
 taskId=null  
 piId=47501

未指定处理人

<https://blog.csdn.net/Pan1458689676>

```

//taskService.claim(taskid,"ZJ2");//
//taskService.setAssignee(taskid, null);//

```

```

/**
 */
@Test
public void findTaskGroup(){

    String assignee = "ZJ2";
    List<Task> list = taskService.createTaskQuery()//
        //.taskCandidateUser("ZJ")//
        .taskAssignee(assignee)//
        .list();

    String taskid = "";
    String instanceId = "";
    if(list!=null && list.size()>0){
        for(Task task: list){
            System.out.println(" ID: "+task.getId());
            System.out.println("   : "+task.getName());
            System.out.println("       : "+task.getCreateTime());
            System.out.println("       : "+task.getAssignee());
            System.out.println(" ID "+task.getProcessInstanceId());

```

```

        System.out.println("    ID: "+task.getExecutionId());
        System.out.println("    ID: "+task.getProcessDefinitionId());
        taskid=task.getId();
        instanceId = task.getProcessInstanceId();
    }
}
//taskService.claim(taskid,"ZJ2");//
taskService.setAssignee(taskid, null);//

List<IdentityLink> listIdentity = taskService.getIdentityLinksForTask(taskid);
//List<IdentityLink> listIdentity =
runtimeService.getIdentityLinksForProcessInstance(instanceId);
//runtime    taskId task    InstanceId

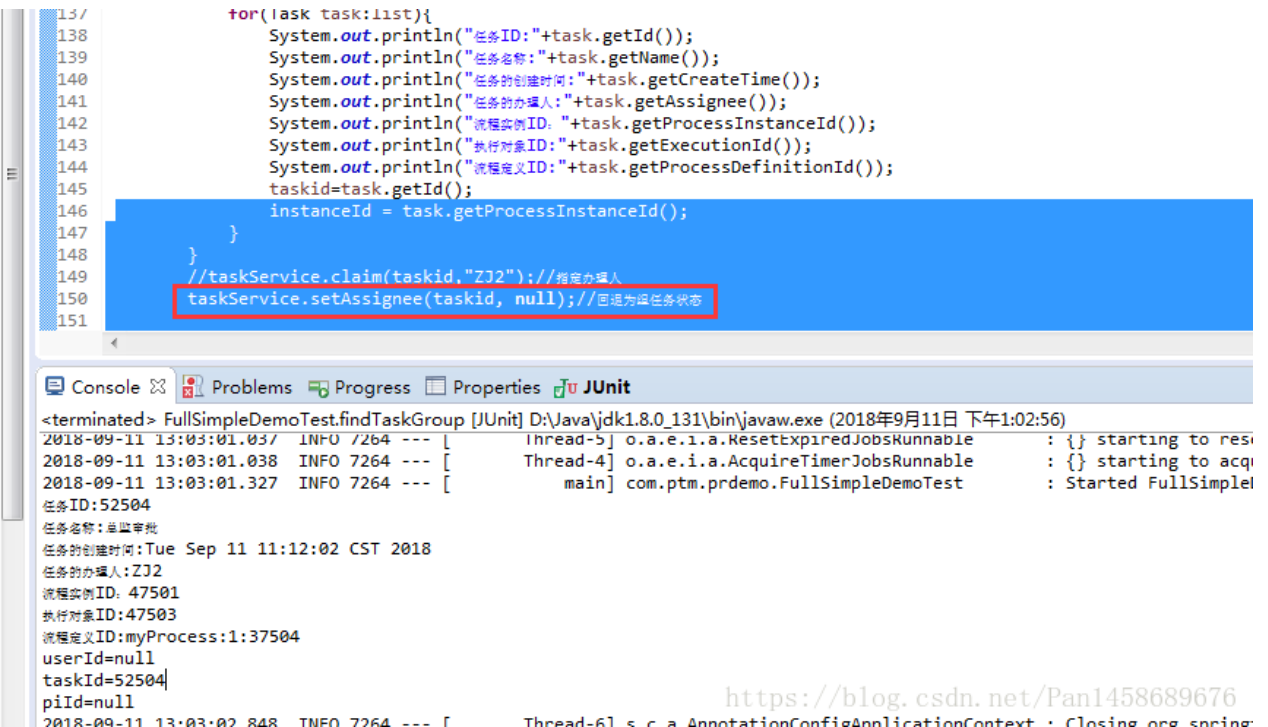
for(IdentityLink identityLink: listIdentity ){
    System.out.println("userId="+identityLink.getUserId());
    System.out.println(" taskId="+identityLink.getTaskId());
    System.out.println(" piId="+identityLink.getProcessInstanceId());
}
}

```

```

zip
no
cationTests.java
emoTest.java
/ [JavaSE-1.8]
ies
s
/ [JavaSE-1.8]
ies

```



```

137         for(task task:list){
138             System.out.println("任务ID:"+task.getId());
139             System.out.println("任务名称:"+task.getName());
140             System.out.println("任务的创建时间:"+task.getCreateTime());
141             System.out.println("任务的办理人:"+task.getAssignee());
142             System.out.println("流程实例ID:"+task.getProcessInstanceId());
143             System.out.println("执行对象ID:"+task.getExecutionId());
144             System.out.println("流程定义ID:"+task.getProcessDefinitionId());
145             taskid=task.getId();
146             instanceId = task.getProcessInstanceId();
147         }
148     }
149     //taskService.claim(taskid,"ZJ2");//指定办理人
150     taskService.setAssignee(taskid, null);//回退为等待任务状态
151

```

```

<terminated> FullSimpleDemoTest.findTaskGroup [JUnit] D:\Java\jdk1.8.0_131\bin\javaw.exe (2018年9月11日 下午1:02:56)
2018-09-11 13:03:01.037 INFO 7264 --- [Thread-5] o.a.e.i.a.ResetExpiredJobsRunnable : {} starting to res
2018-09-11 13:03:01.038 INFO 7264 --- [Thread-4] o.a.e.i.a.AcquireTimerJobsRunnable : {} starting to acqu
2018-09-11 13:03:01.327 INFO 7264 --- [main] com.ptm.prdemo.FullSimpleDemoTest : Started FullSimple
任务ID:52504
任务名称:单点审批
任务的创建时间:Tue Sep 11 11:12:02 CST 2018
任务的办理人:ZJ2
流程实例ID: 47501
执行对象ID:47503
流程定义ID:myProcess:1:37504
userId=null
taskId=52504
piId=null
2018-09-11 13:03:02.848 INFO 7264 --- [Thread-6] s.c.a.AnnotationConfigApplicationContext : Closing org.springframework

```

<https://blog.csdn.net/Pan1458689676>

```

109     }
110 }
111
112 /**完成任务*/
113 @Test
114 public void completeTask(){
115     //任务ID【正式项目要做验证】
116     String taskId = "52504";
117
118     taskService.complete(taskId);
119     System.out.println("完成任务: 任务ID: "+taskId);
120 }
121
122 /**查询当前人的任务*/
123 public void findTaskGroup(){
124 }
125 }
126
127 }
128
129 }
130
131 }
132
133 }
134
135 }
136
137 }
138
139 }
140
141 }
142
143 }
144
145 }
146
147 }
148
149 }
150
151 }
152
153 }
154
155 }
156
157 }
158
159 }
160

```

Console Problems Progress Properties JUnit

<terminated> FullSimpleDemoTest.completeTask [JUnit] D:\Java\jdk1.8.0\_131\bin\javaw.exe

2018-09-11 13:49:35.847	INFO	6960	---	[	main]	s.c.a.AnnotationCor
2018-09-11 13:49:39.335	INFO	6960	---	[	main]	aultActiviti5Compat
2018-09-11 13:49:39.472	INFO	6960	---	[	main]	o.a.engine.impl.Proc
2018-09-11 13:49:39.474	INFO	6960	---	[	main]	o.a.e.i.a.DefaultAs
2018-09-11 13:49:39.475	INFO	6960	---	[	Thread-3]	o.a.e.i.a.AcquireAs
2018-09-11 13:49:39.475	INFO	6960	---	[	Thread-4]	o.a.e.i.a.AcquireTi
2018-09-11 13:49:39.476	INFO	6960	---	[	Thread-5]	o.a.e.i.a.ResetExpi
2018-09-11 13:49:39.725	INFO	6960	---	[	main]	com.ptm.prdemo.Full

完成任务: 任务ID: 52504

history

Revision #1

Created 25 March 2020 16:29:53 by

Updated 2 April 2020 16:37:05 by