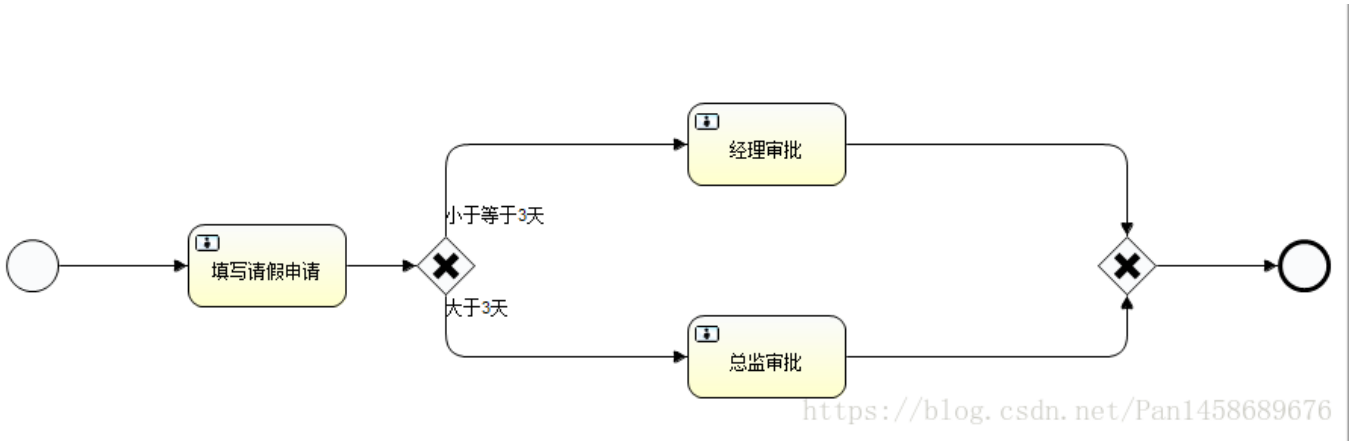
[Activiti 6.x]　　DEMO

Activiti 6.x



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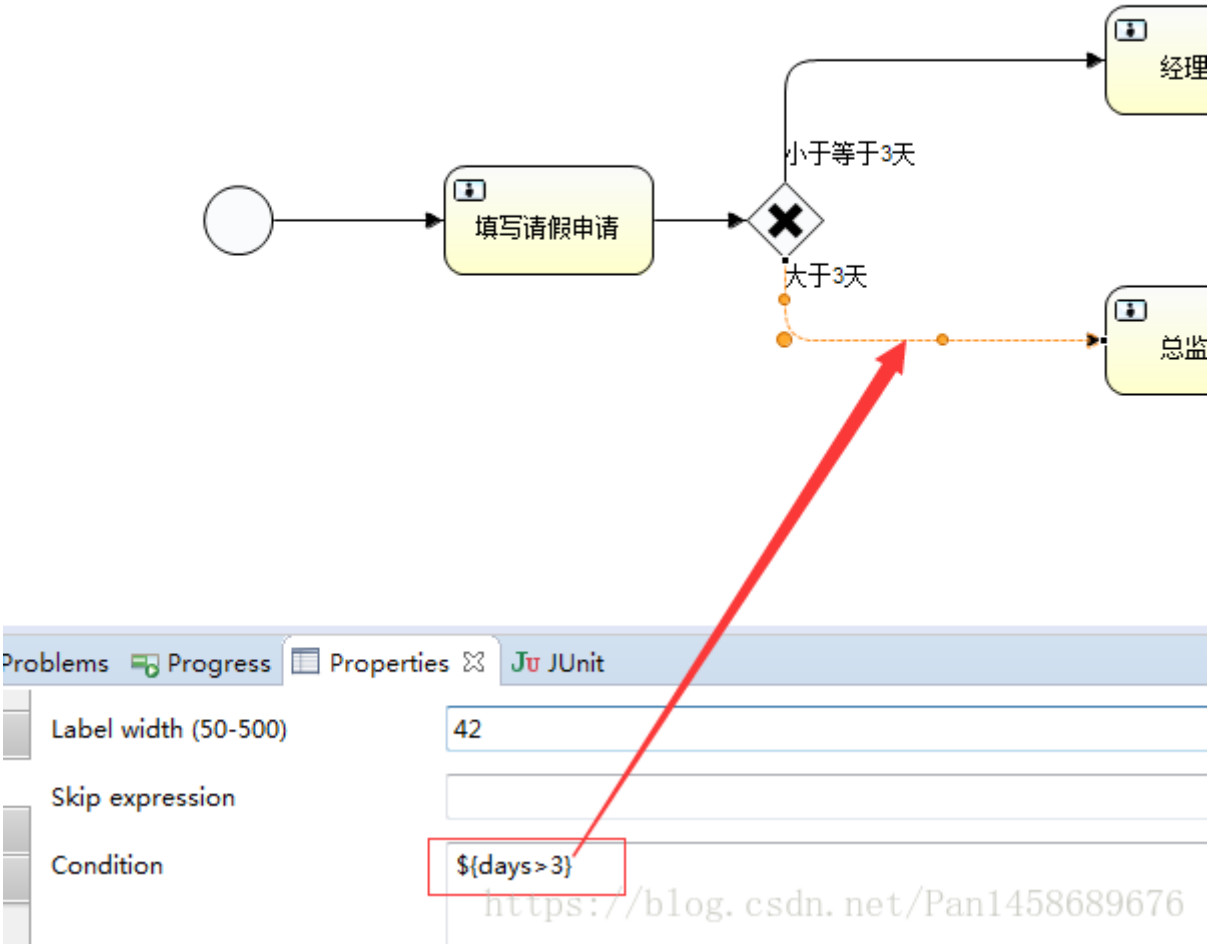
condition



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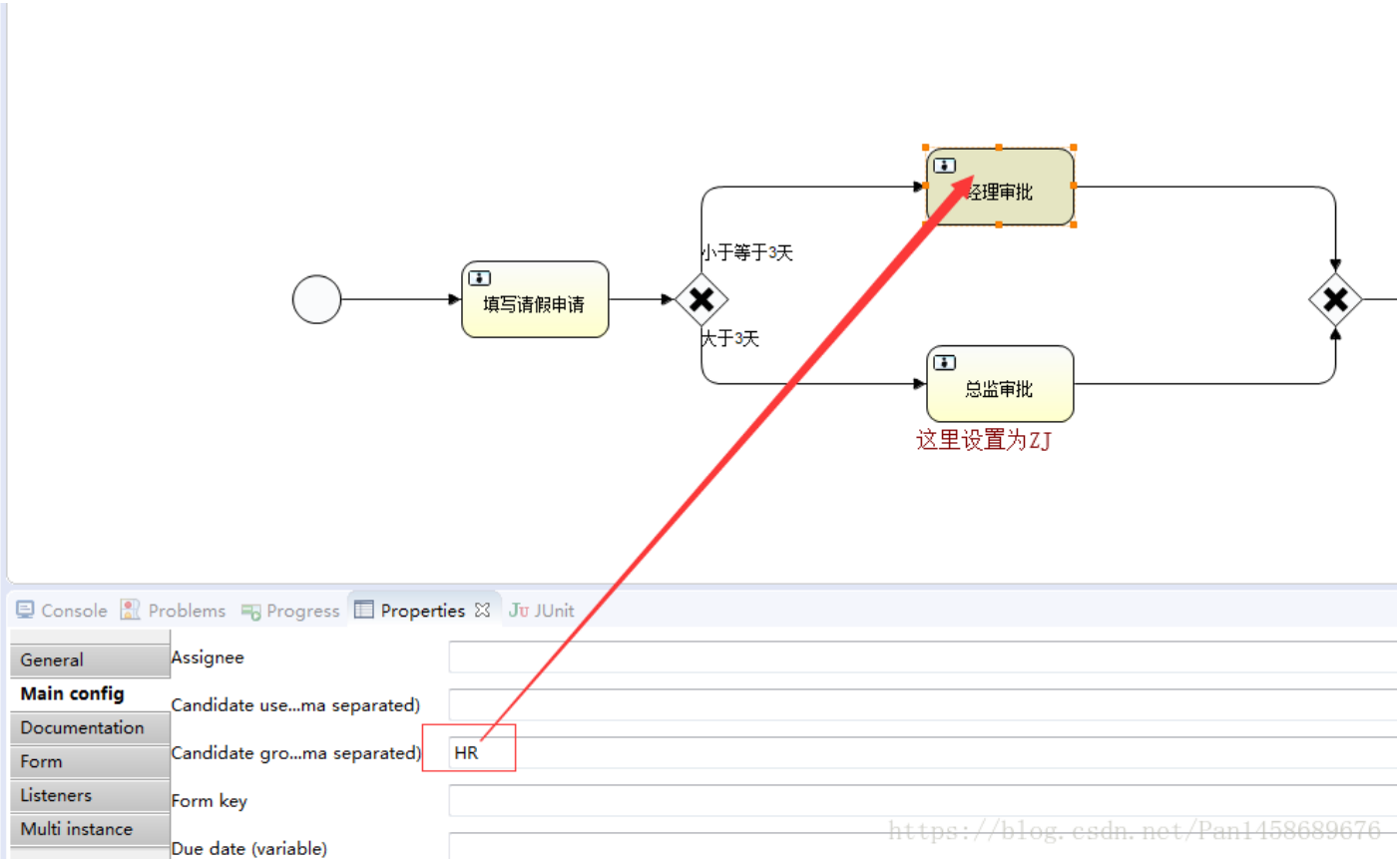

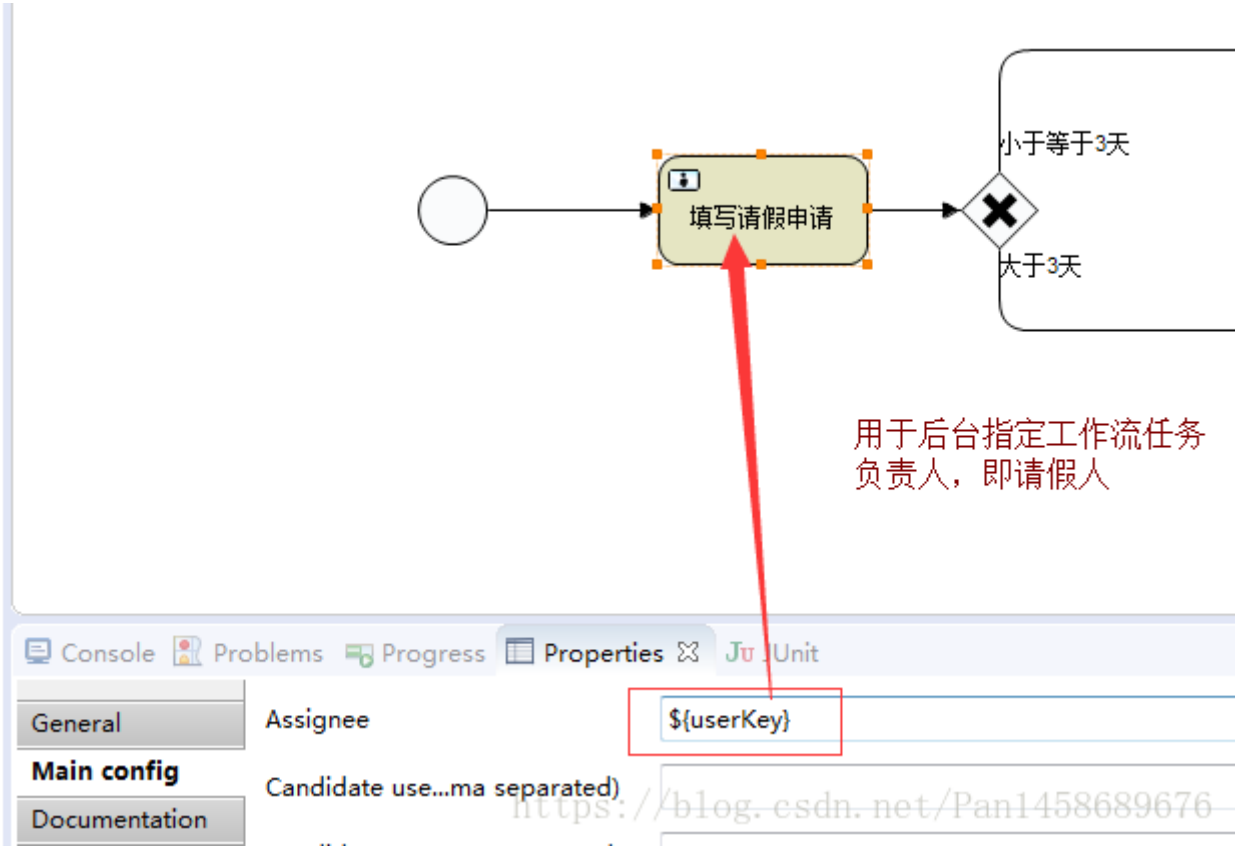


```
<?xml version="1.0" encoding="UTF-8"?>
<definitions xmlns="http://www.omg.org/spec/BPMN/20100524/MODEL"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
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="usertask1" id="BPMNShape_usertask1">
        <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="usertask2" id="BPMNShape_usertask2">
        <omgdc:Bounds height="55.0" width="105.0" x="650.0" y="130.0"></omgdc:Bounds>
      </bpmndi:BPMNShape>
      <bpmndi:BPMNShape bpmnElement="usertask3" id="BPMNShape_usertask3">
        <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">
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      </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>
```

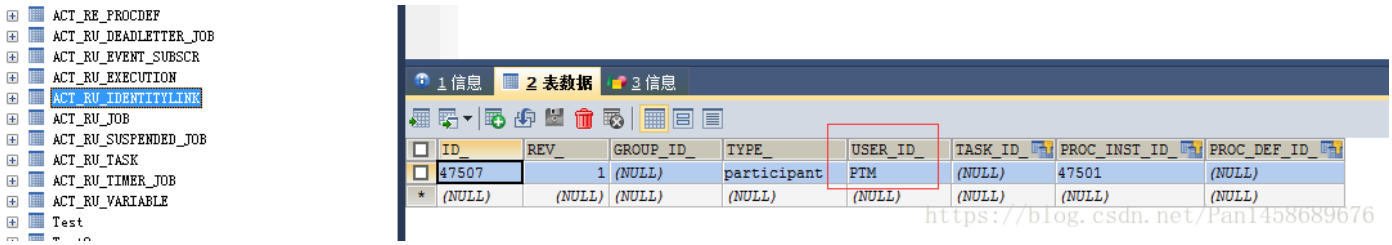
```
//
@Test
public void prepare() {
    Deployment deployment = repositoryService.createDeployment()//
            .name("    ")
            .addClasspathResource("bpmn/MyProcess.bpmn")
            .addClasspathResource("bpmn/MyProcess.png")
            .deploy();
    System.out.println("  ID "+deployment.getId());
    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());
}
```

```
流程实例ID:47501
流程定义ID:myProcess:1:37504
```

User



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TaskService

```
/**        */
@Test
public void findTask(){
    String assignee = "PTM";
    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

```
    }

    /**查询当前人的个人任务*/
    @Test
    public void findTask(){
        String assignee = "PTM";
        List<Task> list = taskService.createTaskQuery()//创建任务查询对象
                        .taskAssignee(assignee)//指定个人任务查询，指定办理人
                        .list();
        if(list!=null && list.size()>0){
            for(Task task:list){
                System.out.println("任务ID:"+task.getId());
                System.out.println("任务名称:"+task.getName());
                System.out.println("任务的创建时间:"+task.getCreateTime());
                System.out.println("任务的办理人:"+task.getAssignee());
                System.out.println("流程实例ID:"+task.getProcessInstanceId());
                System.out.println("执行对象ID:"+task.getExecutionId());
                System.out.println("流程定义ID:"+task.getProcessDefinitionId());
            }
        }
    }
```

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11

```
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
2018-09-11 11:05:59.447  INFO 7300 --- [          Thread-6] s.c.a.AnnotationConfigApplicationContext :
```

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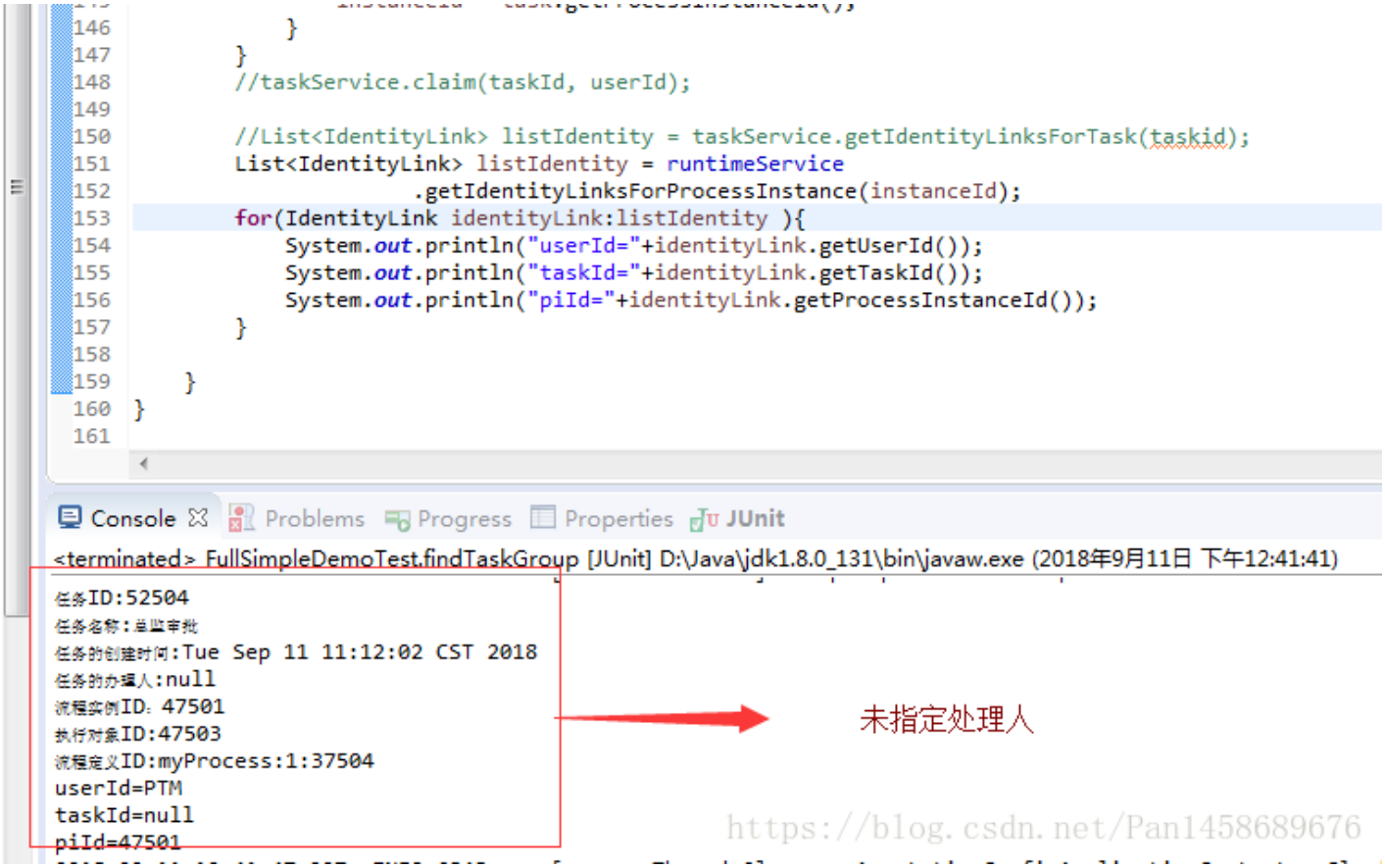
```
/**    */
@Test
public void completeTask(){
    //  ID
    String taskId = "47506";

    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(){
```

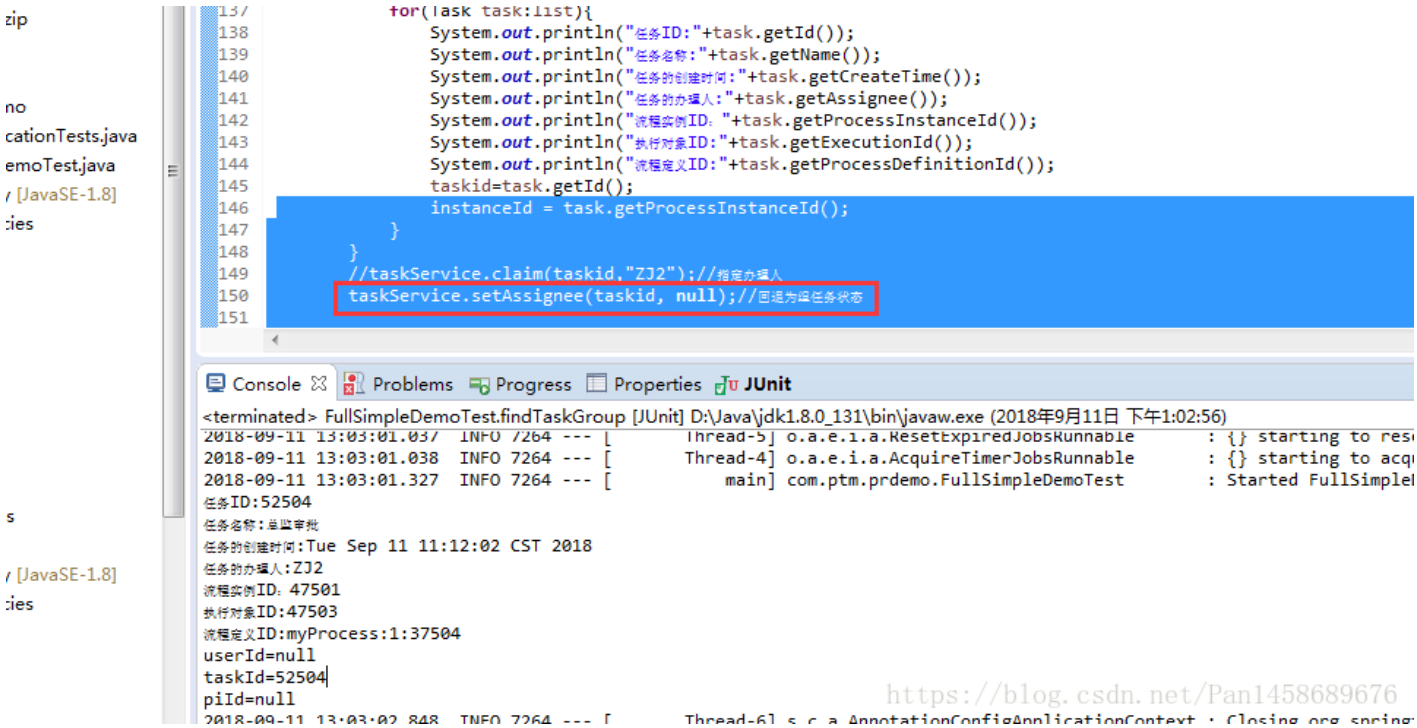
```
    //String assignee = "PTM";
    List<Task> list = taskService.createTaskQuery()//
                    .taskCandidateUser("ZJ")//
                    .list();
    String taskid ="";
    String instanceId ="";
    if(list!=null && list.size()>0){
        for(Task task:list){
            System.out.println("  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());
    }
}
```




```
//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());
    }
}
```



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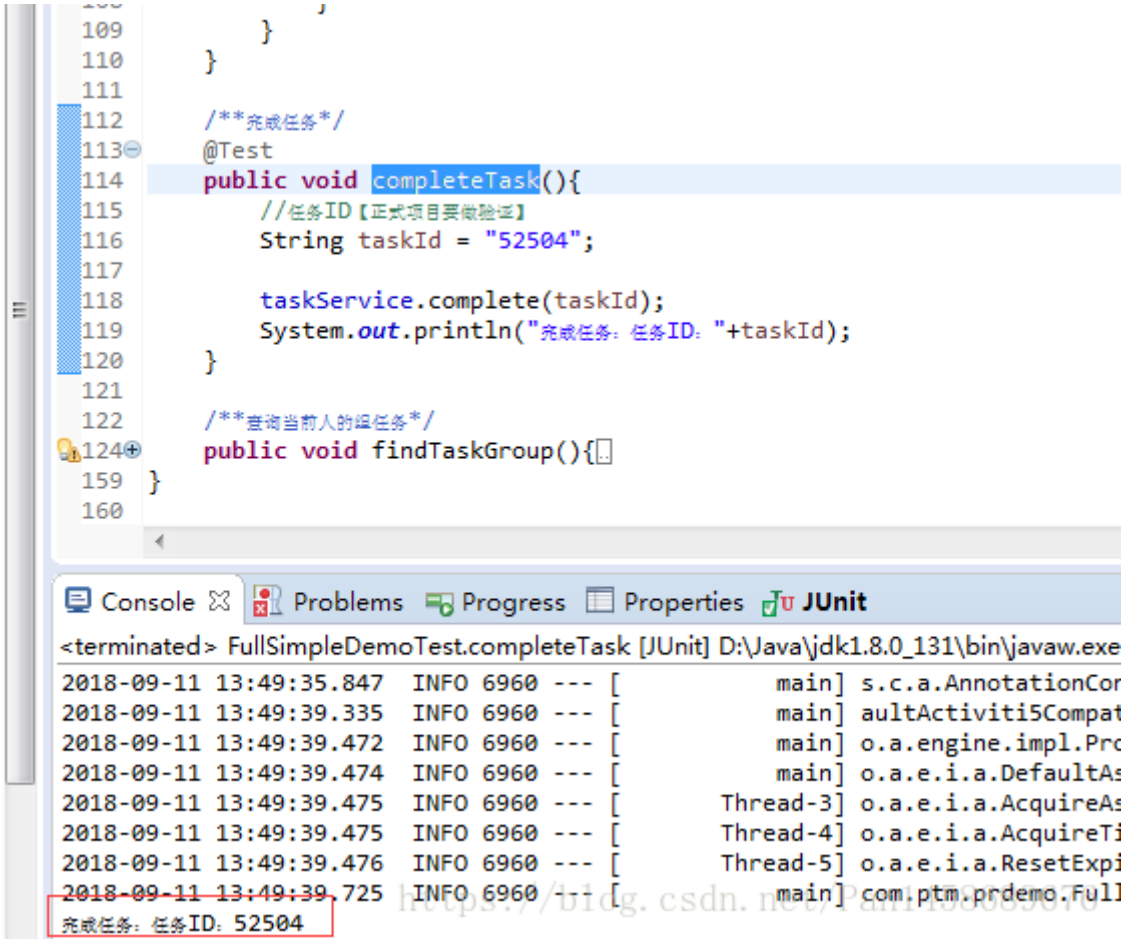

history

Revision #1
Created 25 March 2020 16:29:53 by
Updated 2 April 2020 16:37:05 by