Flowable6.4 –

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Flowable

```
runtimeService.addMultiInstanceExecution(String activityId, String parentExecutionId,
Map<String, Object> executionVariables)

runtimeService.deleteMultiInstanceExecution(String executionId, boolean executionIsCompleted)
```



xml

```
<process id="TestMutiTask" isExecutable="true">
    <startEvent id="Start1" name="  "></startEvent>
    <userTask id="UserTask1" name="  "></userTask>
    <sequenceFlow id="sid-D14A5BC6-A61E-461F-AD33-0042E91B8B13" sourceRef="Start1"
targetRef="UserTask1"></sequenceFlow>
    <userTask id="UserTask2" name="  ">
      <multiInstanceLoopCharacteristics isSequential="false"
flowable:collection="${subProcessHelper.getUserNames()}"
flowable:elementVariable="assignee">

<completionCondition>${subProcessHelper.isComplete(execution)}</completionCondition>
      </multiInstanceLoopCharacteristics>
    </userTask>
    <sequenceFlow id="sid-E6847EF6-F54F-409B-AF8B-DCA62ECDC76F" sourceRef="UserTask1"
targetRef="UserTask2"></sequenceFlow>
    <userTask id="UserTask3" name="  "></userTask>
```

```
<sequenceFlow id="sid-AF828B84-DDAA-4056-88C5-9D4F6EA9F725" sourceRef="UserTask2"
targetRef="UserTask3"></sequenceFlow>
    <endEvent id="End1" name="  "></endEvent>
    <sequenceFlow id="sid-C49B6256-0827-4CF5-8A47-5860A107142A" sourceRef="UserTask3"
targetRef="End1"></sequenceFlow>
  </process>
```

subProcessHelper.getUserNames()`List<String>`

subProcessHelper.isComplete(execution) `  /` ” >2/3 “

```
    /**
     *
     * @param nodeId
     * @param proInstId
     * @param assigneeStr
     */
    @RequestMapping(value = "addExecution/{nodeId}/{proInstId}/{assignees}")
    public void addExecution(@PathVariable("nodeId") String
nodeId,
                             @PathVariable("proInstId") String
proInstId,
                             @PathVariable("assignees") String assigneeStr) {
        String[] assignees = assigneeStr.split(",");
        for (String assignee : assignees) {
            runtimeService.addMultiInstanceExecution(nodeId, proInstId,
Collections.singletonMap("assignee", (Object) assignee));
        }
    }

    /**
     *
     * @param excutionId
     * @param complated
     */
    @RequestMapping(value = "delExecution/{excutionId}/{complated}")
    public void delExecution(@PathVariable("excutionId") String
excutionId,
                             @PathVariable("complated") Boolean complated) {
        runtimeService.deleteMultiInstanceExecution(excutionId, complated);
```

```
    }
```

ID_	REV_	EXECUTION_ID_	PROC_INST_ID_	PROC_DEF_ID_	TASK_DE	SCOPE	SUB_SC	SCOPE_TY	SCOPE_DEFINITION_ID_	NAME_
55030	1	55020	55001	TestMutiTask:11:45084	(Null)	(Null)	(Null)	(Null)	(Null)	会签
55033	1	55021	55001	TestMutiTask:11:45084	(Null)	(Null)	(Null)	(Null)	(Null)	会签
55027	1	55019	55001	TestMutiTask:11:45084	(Null)	(Null)	(Null)	(Null)	(Null)	会签

act_ru_task

ID_	REV_	PROC_INST_ID_	BUSINESS_KEY_	PARENT_ID_	PROC_DEF_ID_	SUPER_EXEC_	ROOT_PROC_INST_ID_	ACT_ID_
55001	1	55001	myTestFlow1	(Null)	TestMutiTask:11:45084	(Null)	55001	(Null)
55015	1	55001	(Null)	55001	TestMutiTask:11:45084	(Null)	55001	UserTask2
55019	1	55001	(Null)	55015	TestMutiTask:11:45084	(Null)	55001	UserTask2
55020	1	55001	(Null)	55015	TestMutiTask:11:45084	(Null)	55001	UserTask2
55021	1	55001	(Null)	55015	TestMutiTask:11:45084	(Null)	55001	UserTask2

act_ru_execution

```
http://localhost:8080/flowabledemo/flow/addExecution/UserTask2/55001/test004
```

ID_	REV_	EXECUTION_ID_	PROC_INST_ID_	PROC_DEF_ID_	TASK_DE	SCOPE	SUB_SC	SCOPE_TY	SCOPE_DEFINITION_ID_	NAME_
55038	1	55034	55001	TestMutiTask:11:45084	(Null)	(Null)	(Null)	(Null)	(Null)	会签
55030	1	55020	55001	TestMutiTask:11:45084	(Null)	(Null)	(Null)	(Null)	(Null)	会签
55033	1	55021	55001	TestMutiTask:11:45084	(Null)	(Null)	(Null)	(Null)	(Null)	会签
55027	1	55019	55001	TestMutiTask:11:45084	(Null)	(Null)	(Null)	(Null)	(Null)	会签

act_ru_task

ID_	REV_	PROC_INST_ID_	BUSINESS_KEY_	PARENT_ID_	PROC_DEF_ID_	SUPER_EXEC_	ROOT_PROC_INST_ID_	ACT_ID_
55001	1	55001	myTestFlow1	(Null)	TestMutiTask:11:45084	(Null)	55001	(Null)
55015	2	55001	(Null)	55001	TestMutiTask:11:45084	(Null)	55001	UserTask2
55019	1	55001	(Null)	55015	TestMutiTask:11:45084	(Null)	55001	UserTask2
55020	1	55001	(Null)	55015	TestMutiTask:11:45084	(Null)	55001	UserTask2
55021	1	55001	(Null)	55015	TestMutiTask:11:45084	(Null)	55001	UserTask2
55034	1	55001	(Null)	55015	TestMutiTask:11:45084	(Null)	55001	UserTask2

act_ru_execution

ID_	REV_	TYPE_	NAME_	EXECUTION_ID_	PROC_INST_ID_
55035	1	string	assignee	55034	55001
55036	1	integer	loopCounter	55034	55001

act_ru_variable

```
http://localhost:8080/flowabledemo/flow/delExecution/55034/0
```

Task Variable

ID_	REV_	EXECUTION_ID_	PROC_INST_ID_	PROC_DEF_ID_	TASK_DE	SCOPE	SUB_SC	SCOPE_TY	SCOPE_DEFINITION_ID_	NAME_
55030	1	55020	55001	TestMutiTask:11:45084	(Null)	(Null)	(Null)	(Null)	(Null)	会签
55033	1	55021	55001	TestMutiTask:11:45084	(Null)	(Null)	(Null)	(Null)	(Null)	会签
55027	1	55019	55001	TestMutiTask:11:45084	(Null)	(Null)	(Null)	(Null)	(Null)	会签

act_ru_task

Task

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