

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>  
</process>
```

```

<sequenceFlow id="sid- AF828B84- DDAA- 4056- 88C5- 9D4F6EA9F725" sourceRef="User Task2"
targetRef="User Task3"></sequenceFlow>
    <endEvent id="End1" name=" " ></endEvent>
    <sequenceFlow id="sid- C49B6256- 0827- 4CF5- 8A47- 5860A107142A" sourceRef="User Task3"
targetRef="End1"></sequenceFlow>
</process>

```

subProcessHelper.getUserNames() | `List<String>` |

subProcessHelper.isComplete(execution) | `String` | `>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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