

# Workflow Java API

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The reference documentation of the Daisy workflow Java API is [available as javadocs](#)<sup>1</sup>, see the following package:

```
org.outerj.daisy.workflow
```

Using the workflow API it is simple to automate everything workflow-related. In contrast to the API of the core repository server, the workflow API is "flatter", that is, there is one service interface ([WorkflowManager](#)<sup>2</sup>) through which all operations are performed. The returned objects are pure value objects without active behavior.

As an example, here is a bit of code I used to fill up the workflow system with some process instances for testing purposes.

This code is written as Javascript, [see the instructions](#)<sup>3</sup> on how to run this.

```
importPackage(Packages.org.outerj.daisy.repository);
importPackage(Packages.org.outerj.daisy.workflow);
importClass(Packages.org.outerj.daisy.repository.clientimpl.RemoteRepositoryManager);

var repositoryManager = new RemoteRepositoryManager("http://localhost:9263",
                                                    new Credentials("guest", "guest"));

// Add the WorkflowManager extension
repositoryManager.registerExtension("WorkflowManager",
    new Packages.org.outerj.daisy.workflow.clientimpl.RemoteWorkflowManagerProvider());

var repository = repositoryManager.getRepository(new Credentials("testuser", "testuser"));

var wfManager = repository.getExtension("WorkflowManager");

var locale = java.util.Locale.US;
var userId = repository.getUserManager().getPublicUserInfo("testuser").getId();
var processDef = wfManager.getLatestProcessDefinition("review", locale);

var taskUpdateData = new TaskUpdateData();

taskUpdateData.setVariable("daisy_document", VariableScope.GLOBAL,
    WfValueType.DAISY_LINK, new WfVersionKey("1-DSY", 1, 1,
    "last"));

taskUpdateData.setVariable("reviewer", VariableScope.GLOBAL,
    WfValueType.ACTOR, new WfActorKey(userId));

taskUpdateData.setVariable("taskPriority", VariableScope.GLOBAL,
    WfValueType.LONG, new java.lang.Long(3)); // 3 is 'normal'

for (var i = 0; i < 100; i++) {
    java.lang.System.out.println(i);

    taskUpdateData.setVariable("daisy_description", VariableScope.GLOBAL,
        WfValueType.STRING, "review process " + i);

    wfManager.startProcess(processDef.getId(), taskUpdateData,
        null /* default transition */, locale);
}
```

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1. [javadoc:root](#)
  2. [javadoc:org.outerj.daisy.workflow.WorkflowManager](#)
  3. [daisy:153-cd](#) (Scripting the repository using Javascript)