Workflow Implementation

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1. Important Classes

org.apache.lenya.workflow The actual workflow API. It defines the workflow model.

- **Workflow** - A workflow object describes a workflow schema.
- **WorkflowInstance** - A workflow instance.
- **Situation** - The environment of the workflow before the invocation of an event.

org.apache.lenya.workflow.impl A basic abstract implementation of the API.

- **WorkflowInstanceImpl** - Basic implementation of a workflow instance.
- **History** - The history of a workflow instance. Use a history object to restore

the state of a workflow instance.

org.apache.lenya.cms.workflow Some CMS-specific workflow implementation classes.

- **WorkflowFactory** - A factory to build all workflow-related objects.
- **WorkflowDocument** - A workflow instance wrapper for a CMS document.
- **CMSHistory** - CMS-specific workflow instance history.
- **CMSSituation** - CMS-specific environment situation.

2. Obtaining Workflow Instance and Situation Objects

Use the *WorkflowFactory* to obtain workflow-related objects:

```
Document document = new DefaultDocument(
        publication, pageEnvelope.getDocumentId());

WorkflowFactory factory = WorkflowFactory.newInstance();

if (factory.hasWorkflow(document)) {

    WorkflowInstance instance;
    Situation situation;

    try {
        instance = factory.buildInstance(document);
        situation = factory.buildSituation(objectModel);
    }
    catch (WorkflowException e) {
        ...
    }

    ...
}
```