

Audit Trail Plugin

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Usages

- The **Audit Trail Plugin** is triggered after an [audit trail event](#) to provide extra processing capabilities (e.g., capturing reporting data or user notification).
- Audit Trail Plugin can be set in [Plugin Default Properties - Audit Trail](#).
- A usable Audit Trail Plugin must extend [org.joget.plugin.base.DefaultAuditTrailPlugin](#) abstract class.

Abstract Class

[org.joget.plugin.base.DefaultAuditTrailPlugin](#)

- Under wflow-plugin-base module
- Extended [org.joget.plugin.base.ExtDefaultPlugin](#). Please refer to [Plugin Base Abstract Class and Interface](#).
- Implemented [org.joget.plugin.property.model.PropertyEditable](#). Please refer to [Plugin Base Abstract Class and Interface](#).
- A base abstract class to develop a Audit Trail Plugin.

Method Detail

Abstract Methods

execute

```
public abstract java.lang.Object execute(java.util.Map props)
```

To execute the extra processing based on Audit Trail Event.

An [org.joget.apps.app.model.AuditTrail](#) object is passed as "auditTrail" property.

Return is not used for now.

Sample Usage

```

public Object execute(Map props) {
    AuditTrail auditTrail = (AuditTrail) props.get("auditTrail");
    if (auditTrail != null &&
auditTrail.getClazz().startsWith("org.joget.apps.form.dao.FormDataDaoImpl")) {
        String method = auditTrail.getMethod();

        if (method.equals("load")) {
            Class[] paramTypes = auditTrail.getParamTypes();
            Object[] params = auditTrail.getArgs();
            Object returnObject = auditTrail.getReturnObject();
            //do something
        }
    }
    return null;
}

```

Audit Trail Event

Workflow Process Related Events

Please refer to [WorkflowManager](#) for extra information.

Class	Method	ParamTypes	Params (Ar
org.joget.workflow.model.service.WorkflowManagerImpl	activityAbort	java.lang.String, java.lang.String	processId, activityDefId
org.joget.workflow.model.service.WorkflowManagerImpl	activityStart	java.lang.String, java.lang.String, boolean	processId, activityDefId, abortRunning
org.joget.workflow.model.service.WorkflowManagerImpl	activityVariable	java.lang.String, java.lang.String, java.lang.Object	activityInstan variableId, variableValu
org.joget.workflow.model.service.WorkflowManagerImpl	activityVariables	java.lang.String, java.util.Map	activityInstan variables
org.joget.workflow.model.service.WorkflowManagerImpl	assignmentAbort	java.lang.String	activityId
org.joget.workflow.model.service.WorkflowManagerImpl	assignmentComplete	java.lang.String	activityId
org.joget.workflow.model.service.WorkflowManagerImpl	assignmentComplete	java.lang.String, java.util.Map	activityId, vai
org.joget.workflow.model.service.WorkflowManagerImpl	assignmentForceComplete	java.lang.String, java.lang.String, java.lang.String, java.lang.String	processDeflc processId, ac username
org.joget.workflow.model.service.WorkflowManagerImpl	assignmentReassign	java.lang.String, java.lang.String, java.lang.String, java.lang.String, java.lang.String	processDeflc processId, ac username, replaceUser
org.joget.workflow.model.service.WorkflowManagerImpl	assignmentReassignUser	java.lang.String	activityId
org.joget.workflow.model.service.WorkflowManagerImpl	assignmentVariable	java.lang.String, java.lang.String, java.lang.String, java.lang.String	activityId, variableNam variableValu
org.joget.workflow.model.service.WorkflowManagerImpl	assignmentVariables	java.lang.String, java.util.Map<java.lang.String, java.lang.String>	activityId, vai
org.joget.workflow.model.service.WorkflowManagerImpl	processAbort	java.lang.String	processId
org.joget.workflow.model.service.WorkflowManagerImpl	processCompleted	java.lang.String	processId
org.joget.workflow.model.service.WorkflowManagerImpl	processCopyFromInstanceId	java.lang.String, java.lang.String, boolean	currentProce newProcessId abortCurrent

org.joget.workflow.model.service.WorkflowManagerImpl	processCreateWithoutStart	java.lang.String	processDeflc
org.joget.workflow.model.service.WorkflowManagerImpl	processDeleteAndUnload	java.lang.String	packageId
org.joget.workflow.model.service.WorkflowManagerImpl	processDeleteAndUnloadVersion	java.lang.String, java.lang.String	packageId, v
org.joget.workflow.model.service.WorkflowManagerImpl	processStart	java.lang.String	processDeflc
org.joget.workflow.model.service.WorkflowManagerImpl	processStart	java.lang.String, java.util.Map<java.lang.String, java.lang.String>	processDeflc variables
org.joget.workflow.model.service.WorkflowManagerImpl	processStart	java.lang.String, java.util.Map<java.lang.String, java.lang.String>, java.lang.String	processDeflc es, startProcUse
org.joget.workflow.model.service.WorkflowManagerImpl	processStart	java.lang.String, java.lang.String, java.util.Map<java.lang.String, java.lang.String>, java.lang.String, java.lang.String, boolean	processDeflc processId, v startProcUse parentProces startManually
org.joget.workflow.model.service.WorkflowManagerImpl	processStartWithInstanceId	java.lang.String, java.lang.String, java.util.Map<java.lang.String, java.lang.String>	processDeflc processId, v
org.joget.workflow.model.service.WorkflowManagerImpl	processStartWithLinking	java.lang.String, java.util.Map<java.lang.String, java.lang.String>, java.lang.String, java.lang.String	processDeflc variables, startProcUse parentProces
org.joget.workflow.model.service.WorkflowManagerImpl	processUpload	java.lang.String, byte[]	packageId, processDefir
org.joget.workflow.model.service.WorkflowManagerImpl	processUploadWithoutUpdateMapping	java.lang.String, byte[]	packageId, p efinitionData
org.joget.workflow.model.service.WorkflowManagerImpl	processVariable	java.lang.String, java.lang.String, java.lang.Object	processInsta variableId, variableValu
org.joget.workflow.model.service.WorkflowManagerImpl	processVariables	java.lang.String, java.util.Map	processInsta variables
org.joget.workflow.model.service.WorkflowManagerImpl	reevaluateAssignmentsForActivity	java.lang.String	activityInstar
org.joget.workflow.model.service.WorkflowManagerImpl	reevaluateAssignmentsForProcess	java.lang.String	proclnstance
org.joget.workflow.model.service.WorkflowManagerImpl	reevaluateAssignmentsForProcesses	java.lang.String[]	proclnstance
org.joget.workflow.model.service.WorkflowManagerImpl	reevaluateAssignmentsForUser	java.lang.String	username
org.joget.workflow.model.service.WorkflowManagerImpl	removeProcessInstance	java.lang.String	proclnstance
org.joget.workflow.shark.WorkflowAssignmentManager	getDefaultAssignments	java.lang.String, java.lang.String, org.joget.workflow.model.WorkflowProcess	proclnstance yInstanceId, nstance
org.joget.workflow.shark.WorkflowToolActivityHandler	executeActivity	org.joget.workflow.model.WorkflowAssignment	workflowAssi
org.joget.workflow.shark.WorkflowToolActivityHandler	executeTool	org.joget.workflow.model.WorkflowAssignment	workflowAssi
org.joget.workflow.shark.WorkflowToolActivityHandler	executeToolCompleted	org.joget.workflow.model.WorkflowAssignment	workflowAssi

Form Related Events

Please refer to [FormDataDao](#) for extra information.

Class	Method	ParamTypes	Params (Args)	Return
org.joget.apps.form.dao.FormDataDaoImpl	count	org.joget.apps.form.model.Form, java.lang.String, java.lang.Object[]	form, condition, params	java.lang.Long
org.joget.apps.form.dao.FormDataDaoImpl	count	java.lang.String, java.lang.String, java.lang.String, java.lang.Object[]	formDefId, tableName, condition, params	java.lang.Long
org.joget.apps.form.dao.FormDataDaoImpl	delete	org.joget.apps.form.model.Form, java.lang.String[]	form, primaryKeyValues	void

org.joget.apps.form.dao.FormDataDaolmpl	delete	java.lang.String, java.lang.String, java.lang.String[]	formDefId, tableName, primaryKeyValues	void
org.joget.apps.form.dao.FormDataDaolmpl	delete	java.lang.String, java.lang.String, org.joget.apps.form.model.FormRowSet	formDefId, tableName, rows	void
org.joget.apps.form.dao.FormDataDaolmpl	find	org.joget.apps.form.model.Form, java.lang.String, java.lang.Object[], java.lang.String, java.lang.Boolean, java.lang.Integer, java.lang.Integer	form, condition, params, sort, desc, start, rows	org.joget.apps.form.model.
org.joget.apps.form.dao.FormDataDaolmpl	find	java.lang.String, java.lang.String, java.lang.String, java.lang.Object[], java.lang.String, java.lang.Boolean, java.lang.Integer, java.lang.Integer	formDefId, tableName, condition, params, sort, desc, start, rows	org.joget.apps.form.model.
org.joget.apps.form.dao.FormDataDaolmpl	findPrimaryKey	org.joget.apps.form.model.Form, java.lang.String, java.lang.String	form, fieldName, value	java.lang.String
org.joget.apps.form.dao.FormDataDaolmpl	findPrimaryKey	java.lang.String, java.lang.String, java.lang.String, java.lang.String	formDefId, tableName, fieldName, value	java.lang.String
org.joget.apps.form.dao.FormDataDaolmpl	load	org.joget.apps.form.model.Form, java.lang.String	form, primaryKey	org.joget.apps.form.model.
org.joget.apps.form.dao.FormDataDaolmpl	load	java.lang.String, java.lang.String, java.lang.String	formDefId, tableName, primaryKey	org.joget.apps.form.model.
org.joget.apps.form.dao.FormDataDaolmpl	loadWithoutTransaction	org.joget.apps.form.model.Form, java.lang.String	form, primaryKey	org.joget.apps.form.model.
org.joget.apps.form.dao.FormDataDaolmpl	loadWithoutTransaction	java.lang.String, java.lang.String, java.lang.String	formDefId, tableName, primaryKey	org.joget.apps.form.model.
org.joget.apps.form.dao.FormDataDaolmpl	saveOrUpdate	org.joget.apps.form.model.Form, org.joget.apps.form.model.FormRowSet	form, rowSet	void
org.joget.apps.form.dao.FormDataDaolmpl	saveOrUpdate	java.lang.String, java.lang.String, org.joget.apps.form.model.FormRowSet	formDefId, tableName, rowSet	void
org.joget.apps.form.dao.FormDataDaolmpl	updateSchema	org.joget.apps.form.model.Form, org.joget.apps.form.model.FormRowSet	form, rowSet	void
org.joget.apps.form.dao.FormDataDaolmpl	updateSchema	java.lang.String, java.lang.String, org.joget.apps.form.model.FormRowSet	formDefId, tableName, rowSet	void

Organization Chart Related Events

Class	Method	ParamTypes	Params (Args)
org.joget.apps.app.web.SessionListener	logout	java.lang.String	username
org.joget.apps.workflow.security.WorkflowAuthenticationProvider	authenticate	java.lang.String	username
org.joget.apps.workflow.security.WorkflowHttpAuthProcessingFilter	authenticate	java.lang.String	username
org.joget.directory.dao.DepartmentDaolmpl	addDepartment	org.joget.directory.model.Department	department
org.joget.directory.dao.DepartmentDaolmpl	countDepartments	java.lang.String, java.lang.Object[]	condition, param
org.joget.directory.dao.DepartmentDaolmpl	deleteDepartment	java.lang.String	id
org.joget.directory.dao.DepartmentDaolmpl	findDepartments	java.lang.String, java.lang.Object[], java.lang.String, java.lang.Boolean, java.lang.Integer, java.lang.Integer	condition, sort, desc, start, rows
org.joget.directory.dao.DepartmentDaolmpl	updateDepartment	org.joget.directory.model.Department	department
org.joget.directory.dao.EmploymentDaolmpl	addEmployment	org.joget.directory.model.Employment	employment
org.joget.directory.dao.EmploymentDaolmpl	assignUserAsDepartmentHOD	java.lang.String, java.lang.String	userId, department
org.joget.directory.dao.EmploymentDaolmpl	assignUserReportTo	java.lang.String, java.lang.String	userId, reportTo

org.joget.directory.dao.EmploymentDaolmpl	assignUserToDepartment	java.lang.String, java.lang.String	userId depart
org.joget.directory.dao.EmploymentDaolmpl	assignUserToGrade	java.lang.String, java.lang.String	userId gradel
org.joget.directory.dao.EmploymentDaolmpl	assignUserToOrganization	java.lang.String, java.lang.String	userId organi
org.joget.directory.dao.EmploymentDaolmpl	countEmployments	java.lang.String, java.lang.Object[]	condit param
org.joget.directory.dao.EmploymentDaolmpl	deleteEmployment	java.lang.String	id
org.joget.directory.dao.EmploymentDaolmpl	findEmployments	java.lang.String, java.lang.Object[], java.lang.String, java.lang.Boolean, java.lang.Integer, java.lang.Integer	condit ms, sc start, r
org.joget.directory.dao.EmploymentDaolmpl	unassignUserAsDepartmentHOD	java.lang.String, java.lang.String	userId depart
org.joget.directory.dao.EmploymentDaolmpl	updateEmployment	org.joget.directory.model.Employment	emplo
org.joget.directory.dao.EmploymentDaolmpl	unassignUserFromDepartment	java.lang.String, java.lang.String	userId depart
org.joget.directory.dao.EmploymentDaolmpl	unassignUserFromGrade	java.lang.String, java.lang.String	userId gradel
org.joget.directory.dao.EmploymentDaolmpl	unassignUserFromOrganization	java.lang.String, java.lang.String	userId organi
org.joget.directory.dao.EmploymentDaolmpl	unassignUserReportTo	java.lang.String	userId
org.joget.directory.dao.EmploymentReportToDaolmpl	addEmploymentReportTo	org.joget.directory.model.EmploymentReportTo	report
org.joget.directory.dao.EmploymentReportToDaolmpl	deleteEmploymentReportTo	java.lang.String	id
org.joget.directory.dao.EmploymentReportToDaolmpl	updateEmploymentReportTo	org.joget.directory.model.EmploymentReportTo	report
org.joget.directory.dao.GradeDaolmpl	addGrade	org.joget.directory.model.Grade	grade
org.joget.directory.dao.GradeDaolmpl	countGrades	java.lang.String, java.lang.Object[]	condit param
org.joget.directory.dao.GradeDaolmpl	deleteGrade	java.lang.String	id
org.joget.directory.dao.GradeDaolmpl	findGrades	java.lang.String, java.lang.Object[], java.lang.String, java.lang.Boolean, java.lang.Integer, java.lang.Integer	condit ms, sc start, r
org.joget.directory.dao.GradeDaolmpl	updateGrade	org.joget.directory.model.Grade	grade
org.joget.directory.dao.GroupDaolmpl	addGroup	org.joget.directory.model.Group	group
org.joget.directory.dao.GroupDaolmpl	countGroups	java.lang.String, java.lang.Object[]	condit param
org.joget.directory.dao.GroupDaolmpl	deleteGroup	java.lang.String	id
org.joget.directory.dao.GroupDaolmpl	findGroups	java.lang.String, java.lang.Object[], java.lang.String, java.lang.Boolean, java.lang.Integer, java.lang.Integer	condit ms, sc start, r
org.joget.directory.dao.GroupDaolmpl	updateGroup	org.joget.directory.model.Group	group
org.joget.directory.dao.OrganizationDaolmpl	addOrganization	org.joget.directory.model.Organization	organi
org.joget.directory.dao.OrganizationDaolmpl	countOrganizations	java.lang.String, java.lang.Object[]	condit param
org.joget.directory.dao.OrganizationDaolmpl	deleteOrganization	java.lang.String	id
org.joget.directory.dao.OrganizationDaolmpl	findOrganizations	java.lang.String, java.lang.Object[], java.lang.String, java.lang.Boolean, java.lang.Integer, java.lang.Integer	condit ms, sc start, r
org.joget.directory.dao.OrganizationDaolmpl	updateOrganization	org.joget.directory.model.Organization	organi
org.joget.directory.dao.RoleDaolmpl	addRole	org.joget.directory.model.Role	role
org.joget.directory.dao.RoleDaolmpl	countRoles	java.lang.String, java.lang.Object[]	condit param
org.joget.directory.dao.RoleDaolmpl	deleteRole	java.lang.String	id

org.joget.directory.dao.RoleDaolmpl	findRoles	java.lang.String, java.lang.Object[], java.lang.String, java.lang.Boolean, java.lang.Integer, java.lang.Integer	conditi ms, sc start, r
org.joget.directory.dao.RoleDaolmpl	updateRole	org.joget.directory.model.Role	role
org.joget.directory.dao.UserDaolmpl	addUser	org.joget.directory.model.User	user
org.joget.directory.dao.UserDaolmpl	assignUserToGroup	java.lang.String, java.lang.String	usern: groupl
org.joget.directory.dao.UserDaolmpl	countUsers	java.lang.String, java.lang.Object[]	
org.joget.directory.dao.UserDaolmpl	deleteUser	java.lang.String	usern: groupl
org.joget.directory.dao.UserDaolmpl	findUsers	java.lang.String, java.lang.Object[], java.lang.String, java.lang.Boolean, java.lang.Integer, java.lang.Integer	
org.joget.directory.dao.UserDaolmpl	unassignUserFromGroup	java.lang.String, java.lang.String	usern: groupl
org.joget.directory.dao.UserDaolmpl	updateUser	org.joget.directory.model.User	user
org.joget.directory.dao.UserDaolmpl	updateUserEmploymentInfo	java.lang.String, org.joget.directory.model.Emp loyment	usern: groupl

Plugin Properties Options

- Please refer to [Plugin Properties Options](#) for more information.

Tutorials

- [Guideline for developing a plugin](#)
- [How to develop a Slack Notification plugin](#)

Related Community Plugins

- **Process Data Collector**
org.joget.apps.app.lib.ProcessDataCollectorAuditTrail (wflow-core)
- **User Notification**
org.joget.apps.app.lib.UserNotificationAuditTrail (wflow-core)