

# AppService

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## Description

- `org.joget.apps.app.service.AppService`
- Under `wflow-core` module
- Service method to manage and interact with app

## Code Sample

The following example assume that you are using [BeanShell Plugin](#) in a Process Tool. Please refer to [Bean Shell Programming Guide](#) for more information.

```

import org.joget.apps.app.service.AppService;
import org.joget.apps.app.service.AppUtil;
import org.joget.apps.form.model.FormRowSet;

//Get App Service
AppService appService = (AppService) AppUtil.getApplicationContext().getBean("appService");

String processId = workflowAssignment.getProcessId(); //Please note that workflowAssignment is auto injected in
BeanShell Plugin when mapped to Process Tool

//Get the record id
String primaryKey = appService.getOriginProcessId(processId);

//Load form data
FormRowSet rowSet = appService.loadFormData(appDef.getAppId(), appDef.getVersion().toString(),
"sampleFormDefId", primaryKey); //Please note that appDef is auto injected in BeanShell Plugin when mapped to
Process Tool

```

## Methods

completeAssignmentForm

```

public org.joget.apps.form.model.FormData completeAssignmentForm(java.lang.String appId, java.lang.String
version, java.lang.String activityId, org.joget.apps.form.model.FormData formData, java.util.Map<java.lang.
String, java.lang.String> workflowVariableMap)

```

Process a submitted form to complete an assignment

completeAssignmentForm

```

public org.joget.apps.form.model.FormData completeAssignmentForm(org.joget.apps.form.model.Form form, org.
joget.workflow.model.WorkflowAssignment assignment, org.joget.apps.form.model.FormData formData, java.util.
Map<java.lang.String, java.lang.String> workflowVariableMap)

```

Process a submitted form to complete an assignment

countProcessFormData

```

public int countProcessFormData(java.lang.String formDefId, java.lang.String query)

```

Returns the total number of form data rows for a process based on criteria

**Deprecated** API used in v2. Not implemented since v3.

createAppDefinition

```

public java.util.Collection<java.lang.String> createAppDefinition(org.joget.apps.app.model.AppDefinition
appDefinition)

```

Create a new app definition

**Return** A Collection of errors (if any).

createAppDefinition

```

public java.util.Collection<java.lang.String> createAppDefinition(org.joget.apps.app.model.AppDefinition
appDefinition, org.joget.apps.app.model.AppDefinition copyAppDefinition)

```

Create a new app definition and duplicate the other app

**Return** A Collection of errors (if any).

createFormDefinition

```

public java.util.Collection<java.lang.String> createFormDefinition(org.joget.apps.app.model.AppDefinition
appDefinition, org.joget.apps.app.model.FormDefinition formDefinition)

```

Create a new form definition

**Return** A Collection of errors (if any).

createNewAppDefinitionVersion

```
public org.joget.apps.app.model.AppDefinition createNewAppDefinitionVersion(java.lang.String appId)
```

Create a new version of an app from an existing latest version

deleteAllAppDefinitionVersions

```
public void deleteAllAppDefinitionVersions(java.lang.String appId)
```

Delete all versions of an app

deleteAppDefinitionVersion

```
public void deleteAppDefinitionVersion(java.lang.String appId, java.lang.Long version)
```

Delete a specific app version

deployWorkflowPackage

```
public org.joget.apps.app.model.PackageDefinition deployWorkflowPackage(java.lang.String appId, java.lang.String version, byte[] packageXpdl, boolean createNewApp) throws java.io.IOException
```

Deploy an XPDL package for an app.

exportApp

```
public java.io.OutputStream exportApp(java.lang.String appId, java.lang.String version, java.io.OutputStream output) throws java.io.IOException
```

Export an app version in ZIP format into an OutputStream

getAppDataXmlFromZip

```
public byte[] getAppDataXmlFromZip(byte[] zip) throws java.io.IOException
```

Reads app XML from zip content.

getAppDefinition

```
public org.joget.apps.app.model.AppDefinition getAppDefinition(java.lang.String appId, java.lang.String version)
```

Finds the app definition based on the appId and version, cached where possible.

If version is null, empty or equals to AppDefinition.VERSION\_LATEST, the latest version is returned.

getAppDefinitionForWorkflowActivity

```
public org.joget.apps.app.model.AppDefinition getAppDefinitionForWorkflowActivity(java.lang.String activityId)
```

Retrieves the app definition for a specific workflow activity assignment.

getAppDefinitionForWorkflowProcess

```
public org.joget.apps.app.model.AppDefinition getAppDefinitionForWorkflowProcess(java.lang.String processId)
```

Retrieves the app definition for a specific workflow process.

getWorkflowProcessForApp

```
public org.joget.workflow.model.WorkflowProcess getWorkflowProcessForApp(java.lang.String appId, java.lang.String version, java.lang.String processDefId)
```

Retrieves the workflow process definition for a specific app version.

getAppDefinitionWithProcessDefId

```
public org.joget.apps.app.model.AppDefinition getAppDefinitionWithProcessDefId(java.lang.String processDefId)
```

Retrieves the app definition for a specific workflow process definition id.

getAppDefinitionXml

```
public byte[] getAppDefinitionXml(java.lang.String appId, java.lang.Long version)
```

Get App definition XML

getFormTableName

```
public java.lang.String getFormTableName(org.joget.apps.app.model.AppDefinition appDef, java.lang.String formDefID)
```

Get table name of a form

getFormTableName

```
public java.lang.String getFormTableName(java.lang.String appId, java.lang.String appVersion, java.lang.String formDefID)
```

Get table name of a form

getOriginProcessId

```
public java.lang.String getOriginProcessId(java.lang.String processId)
```

Returns the origin process ID or recordId for a process instance.

The return value can be the process ID of the top-most process which is started that possibly triggers other sub-processes, or it is a record id used to start the top-most process.

getPrimaryKeyWithForeignKey

```
public java.lang.String getPrimaryKeyWithForeignKey(java.lang.String appId, java.lang.String appVersion, java.lang.String formId, java.lang.String foreignKeyName, java.lang.String foreignKeyValue)
```

Find a form data record id based a field name and value

getPublishedApps

```
public java.util.Collection<org.joget.apps.app.model.AppDefinition> getPublishedApps(java.lang.String appId)
```

Retrieve list of published apps available to the current user

getPublishedApps

```
public java.util.Collection<org.joget.apps.app.model.AppDefinition> getPublishedApps(java.lang.String appId, boolean mobileView, boolean mobileCache)
```

Retrieve list of published apps available to the current user.

Overloaded to additionally filter by mobile view support.

getPublishedProcesses

```
public java.util.Map<org.joget.apps.app.model.AppDefinition, java.util.Collection<org.joget.workflow.model.WorkflowProcess>> getPublishedProcesses(java.lang.String appId)
```

Retrieve list of published processes available to the current user

getPublishedVersion

```
public java.lang.Long getPublishedVersion(java.lang.String appId)
```

Get version of published app

getUnprotectedAppList

```
public java.util.Collection<org.joget.apps.app.model.AppDefinition> getUnprotectedAppList()
```

Retrieve all apps without check for permission

getXpdlFromZip

```
public byte[] getXpdlFromZip(byte[] zip) throws Exception
```

Reads XPDl from zip content.

importApp

```
public org.joget.apps.app.model.AppDefinition importApp(byte[] zip) throws org.joget.apps.app.model.ImportAppException
```

Import app from zip file

importAppDefinition

```
public org.joget.apps.app.model.AppDefinition importAppDefinition(org.joget.apps.app.model.AppDefinition appDef, java.lang.Long appVersion, byte[] xpdl) throws org.joget.apps.app.model.ImportAppException
```

Import an app definition object and XPDL content into the system.

importPlugins

```
public void importPlugins(byte[] zip) throws java.io.Exception
```

Import plugins (JAR) from within a zip content.

isActivityAutoContinue

```
public boolean isActivityAutoContinue(java.lang.String packageId, java.lang.String version, java.lang.String processDefId, java.lang.String activityDefId)
```

Check to see whether an activity is configured to automatically continue on to the next activity.

loadAppDefinition

```
public org.joget.apps.app.model.AppDefinition loadAppDefinition(java.lang.String appId, java.lang.String version)
```

Loads the app definition based on the appId and version.

If version is null, empty or equals to AppDefinition.VERSION\_LATEST, the latest version is returned.

listProcessFormData

```
public java.util.Collection<org.joget.apps.form.model.Form> listProcessFormData(java.lang.String formDefId, java.lang.String processId, java.lang.String query, java.lang.String sort, java.lang.Boolean desc, int start, int rows)
```

Returns a Collection of form data for a process based on criteria

**Deprecated** API used in v2. Not implemented since v3.

loadFormData

```
public org.joget.apps.form.model.FormRowSet loadFormData(java.lang.String appId, java.lang.String version, java.lang.String formDefId, java.lang.String primaryKeyValue)
```

Load specific data row (record) by primary key value for a specific form

loadFormData

```
public org.joget.apps.form.model.FormRowSet loadFormData(org.joget.apps.form.model.Form form, java.lang.String primaryKeyValue)
```

Load specific data row (record) by primary key value for a specific form

loadFormDataWithoutTransaction

```
public org.joget.apps.form.model.FormRowSet loadFormDataWithoutTransaction(java.lang.String formDefId, java.lang.String tableName, java.lang.String primaryKeyValue)
```

Method to load specific data row (record) by primary key value for a specific form.

This method is transactional (since v5), but retains the method name for backward compatibility reasons.

loadFormDataWithoutTransaction

```
public org.joget.apps.form.model.FormRowSet loadFormDataWithoutTransaction(org.joget.apps.form.model.Form form, java.lang.String primaryKeyValue)
```

Method to load specific data row (record) by primary key value for a specific form.

This method is transactional (since v5), but retains the method name for backward compatibility reasons.

retrieveMappedForm

```
public org.joget.apps.app.model.PackageActivityForm retrieveMappedForm(java.lang.String appId, java.lang.String version, java.lang.String processDefId, java.lang.String activityDefId)
```

Returns the form definition ID for the form mapped to the specified activity definition ID

storeFormData

```
public org.joget.apps.form.model.FormRowSet storeFormData(org.joget.apps.form.model.Form form, org.joget.apps.form.model.FormRowSet rows, java.lang.String primaryKeyValue)
```

Store specific data row (record) for a form.

storeFormData

```
public org.joget.apps.form.model.FormRowSet storeFormData(java.lang.String formDefId, java.lang.String
tableName, org.joget.apps.form.model.FormRowSet rows, java.lang.String primaryKeyValue)
```

Store specific data row (record) for a form.

storeFormData

```
public org.joget.apps.form.model.FormRowSet storeFormData(java.lang.String appId, java.lang.String version,
java.lang.String formDefId, org.joget.apps.form.model.FormRowSet rows, java.lang.String primaryKeyValue)
```

Store specific data row (record)

submitForm

```
public org.joget.apps.form.model.FormData submitForm(org.joget.apps.form.model.Form form, org.joget.apps.
form.model.FormData formData, boolean ignoreValidation)
```

Use case for form submission by Form object

submitForm

```
public org.joget.apps.form.model.FormData submitForm(java.lang.String appId, java.lang.String version, java.
lang.String formDefId, org.joget.apps.form.model.FormData formData, boolean ignoreValidation)
```

Use case for form submission by ID

submitFormToStartProcess

```
public org.joget.workflow.model.WorkflowProcessResult submitFormToStartProcess(java.lang.String appId, java.
lang.String version, java.lang.String processDefId, org.joget.apps.form.model.FormData formData, java.util.
Map<java.lang.String, java.lang.String> workflowVariableMap, java.lang.String originProcessId, java.lang.
String formUrl)
```

Start a process through a form submission

viewAssignmentForm

```
public org.joget.apps.app.model.PackageActivityForm viewAssignmentForm(org.joget.apps.app.model.
AppDefinition appDef, org.joget.workflow.model.WorkflowAssignment assignment, org.joget.apps.form.model.
FormData formData, java.lang.String formUrl)
```

Retrieve a form for a specific activity instance

viewAssignmentForm

```
public org.joget.apps.app.model.PackageActivityForm viewAssignmentForm(org.joget.apps.app.model.
AppDefinition appDef, org.joget.workflow.model.WorkflowAssignment assignment, org.joget.apps.form.model.
FormData formData, java.lang.String formUrl, java.lang.String cancelUrl)
```

Retrieve a form for a specific activity instance

viewAssignmentForm

```
public org.joget.apps.app.model.PackageActivityForm viewAssignmentForm(java.lang.String appId, java.lang.
String version, java.lang.String activityId, org.joget.apps.form.model.FormData formData, java.lang.String
formUrl)
```

Retrieve a form for a specific activity instance

viewAssignmentForm

```
public org.joget.apps.app.model.PackageActivityForm viewAssignmentForm(java.lang.String appId, java.lang.
String version, java.lang.String activityId, org.joget.apps.form.model.FormData formData, java.lang.String
formUrl, java.lang.String cancelUrl)
```

Retrieve a form for a specific activity instance

viewDataForm

```
public org.joget.apps.form.model.Form viewDataForm(java.lang.String appId, java.lang.String version, java.
lang.String formDefId, java.lang.String saveButtonLabel, java.lang.String submitButtonLabel, java.lang.
String cancelButtonLabel, org.joget.apps.form.model.FormData formData, java.lang.String formUrl, java.lang.
String cancelUrl)
```

Retrieve a data form

viewDataForm

```
public org.joget.apps.form.model.Form viewDataForm(java.lang.String appId, java.lang.String version, java.
lang.String formDefId, java.lang.String saveButtonLabel, java.lang.String submitButtonLabel, java.lang.
String cancelButtonLabel, java.lang.String cancelButtonTarget, org.joget.apps.form.model.FormData formData,
java.lang.String formUrl, java.lang.String cancelUrl)
```

Retrieve a data form

viewStartProcessForm

```
public org.joget.apps.app.model.PackageActivityForm viewStartProcessForm(java.lang.String appId, java.lang.
String version, java.lang.String processDefId, org.joget.apps.form.model.FormData formData, java.lang.String
formUrl)
```

Retrieve form mapped to start a process