Project tool

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$project is a project reference enabling a template to return the project information.

$project.getName()

Returns a project name.

	Name	Type	Description
Parameter(s)	-	-	-
Return	-	java.lang.String	A project name.

$project.getTitle()

Gets a project title.

	Name	Type	Description
Parameter(s)	-	-	-
Return	-	java.lang.String	A project title.

$project.getFileName()

Gets a project filename.

	Name	Type	Description
Parameter(s)	-	-	-
Return	-	java.lang.String	A project filename.

$project.getExtension()

Gets a project filename extension.

	Name	Type	Description
Parameter(s)	-	-	-
Return	-	java.lang.String	A project filename extension.

$project.getDirectory()

Get a project directory name.

	Name	Type	Description
Parameter(s)	-	-	-
Return	-	java.lang.String	A project directory name.

$project.getVersionList()

Returns a list of version information from an open Server project.

	Name	Type	Description
Return	-	java.util.List<ProjectVersion>	A list of com.nomagic.magicdraw.magicreport.tools.ProjectsVersion.

Info

Version information consists of the following attributes:

- comment: a version committed comment
- date: a committed date
- dateAsString: a committed date as text
- number: a committed version
- numberAsString: a committed version as text
- user: a committer's name
- version: a version object that can be com.nomagic.teamwork.common.projects.Version for Teamwork project or com.nomagic.magicdraw.esi.projects.EsiVersionDescriptor for Teamwork Cloud project.

Following is the sample code.

```
Current version : $project.version
All version:
----------------
#foreach ($version in $project.versionList)
Date : $version.date
Number : $version.number
Number as String : $version.numberAsString
User : $version.user
Comment : $version.comment
----------------
#end
```

$project.getType()

Returns a file type. A file type is one of the following values:

- 0 – UNDEF
- 2 – XML_NATIVE
- 3 – UNSIYS_XMI

	Name	Type	Description
Return	-	int	The value of a file type.

$project.getDiagrams()

Returns all existing diagrams stored in a particular project, including diagrams in auxiliary resources.

	Name	Type	Description
Return	-	java.util.Collection	A collection of diagram instances.

Note

$project.getDiagrams() returns all the diagrams in the selected scope, including diagrams in auxiliary resources.

$project.getDiagrams(type)

Returns existing diagrams of a given type stored in a particular project.

	Name	Type	Description
Parameter(s)	type	java.lang.String	A diagram type.

Return	-	java.util.Collection	A collection of diagram instances.

Sample code

```
#set($classDiagram = $project.getDiagrams("Class Diagram"))
#foreach($cl in $classDiagram)
$cl.name
#end
```

- “Class Diagram” is a diagram type

$project.getPresentationDiagrams()

Returns all existing presentation diagrams stored in a particular project.

	Name	Type	Description
Return	-	java.util.Collection	A collection of diagram views.

$project.getPresentationDiagrams(type)

Returns all existing presentation diagrams of a given type stored in a particular project.

	Name	Type	Description
Parameter(s)	type	java.lang.String	A diagram type.
Return	-	java.util.Collection	A collection of diagram views.

Sample code

```
#set($classDiagram = $project.getPresentationDiagrams("Class Diagram"))
#foreach($cl in $classDiagram)
$cl.name
#end
```

- “Class Diagram” is a diagram type.

$project.isRemote()

Returns the remote or non-remote state of a project.

	Name	Type	Description
Return	-	java.lang.Boolean	Return true if a project is a remote project, otherwise false.

$project.isDirty()

Returns true if that particular project was modified after it had been saved or loaded.

	Name	Type	Description
Return	-	java.lang.Boolean	Return true if a project was modified after it had been saved/loaded, otherwise false.

$project.getElementByID(id)

Returns an element with a given ID.

	Name	Type	Description
Parameter(s)	ID	java.lang.String	An element ID.
Return	-	com.nomagic.magicdraw.uml.BaseElement	An element with a given ID or null if the element with such ID is not registered in the project.

Sample code

```
#set($ele = $project.getElementByID("_9_0_62a020a_1105704887361_983947_8206"))
$ele.name
#ele.humanType
```

- "_9_0_62a020a_1105704887361_983947_8206" is the element's ID number.

$project.getAllElementId()

Returns a collection of all element IDs in a project.

	Name	Type	Description
Return	-	java.util.Collection	A collection of all element IDs in a project.

$project.getXmiVersion()

Returns the XMI version of a project.

	Name	Type	Description
Return	-	int	An XMI version.

$project.getVersion()

Return a project version number.

	Name	Type	Description
Return	-	long	A project version number.

$project.getModel()

Returns a model (the root container of all model structures).

	Name	Type	Description
Return	-	com.nomagic.uml2.ext.magicdraw.auxiliaryconstructs.mdmodels.Model	A model.

$project.getModel() is deprecated since MagicDraw 18.2, please use **$project.getPrimaryModel()** instead

$project.getPrimaryModel()

Returns the primary (main) model of the project (not including the ones from modules (attached projects)).

	Name	Type	Description
Return	-	com.nomagic.uml2.ext.magicdraw.classes.mdkernel.Package	The primary model of the project.

$project.getAllModels()

Returns a list of models in the project (the primary model of the project and all the models of the modules(attached projects)).

	Name	Type	Description
Return	-	Java.util.List	A list of models.

$project.getModuleList(auxiliary)

Returns a list of used server and local modules from a server project.

	Name	Type	Description
Parameter(s)	auxiliary	boolean	Returns auxiliary resources only if this value is True. Default is False.
Return	-	java.util.Collection	A list of com.nomagic.magicdraw.core.modules.ModuleDescriptor

$project.getSharedModule(module)

Returns a list of shared modules from a specified module.

	Name	Type	Description
Parameter(s)	module	com.nomagic.magicdraw.core.modules.ModuleDescriptor	A module.
Return	-	java.util.Collection	A list of com.nomagic.magicdraw.core.modules.ModuleDescriptor.

$project.getServerModule(auxiliary)

This function returns the list of used server modules as well as auxiliary resources.

	Name	Type	Description
Parameter(s)	auxiliary	boolean	Returns auxiliary resources when this value is True. Default is false.
Return	-	java.util.Collection	A list of com.nomagic.magicdraw.core.modules.ModuleDescriptor.

$project.getLocalModule(auxiliary)

This function returns a list of used local modules as well as auxiliary resources.

	Name	Type	Description
Parameter(s)	auxiliary	boolean	Returns auxiliary resources when this value is True. Default is false.
Type	-	java.util.Collection	A list of com.nomagic.magicdraw.core.modules.ModuleDescriptor.

$project.getAuxiliaryResource()

This function returns a list of auxiliary resources.

	Name	Type	Description
Type	-	java.util.Collection	A list of com.nomagic.magicdraw.core.modules.ModuleDescriptor.

Sample code

```
#foreach ($module in $project.getModuleList())
name                                : $module.representationString
description                        : $module.description
version                                 : $module.version
required version        : $module.requiredVersion
shared module                :
#foreach ($child in $project.getSharedModule($module))
- $child.representationString
#end
#end
```

- $module is the module from Teamwork Server.