

Used project management

[com.nomagic.magicdraw.core.project.ProjectsManager](#) provides the used project management (project usage, export, import, reload, and package sharing) methods.

Example #1. Exporting a used local project

The collection of project packages can be exported as a used project.

```
ProjectsManager projectsManager = Application.getInstance().
getProjectsManager();
File file = new File(moduleFilePath);
ProjectDescriptor projectDescriptor = ProjectDescriptorsFactory.
createProjectDescriptor(file.toURI());
// Export a collection of packages as a used project
projectsManager.exportModule(project, packages, "My used local
project", projectDescriptor);
```

Related pages

- [Project descriptor](#)
- [Project structure decomposition](#)

Example #2. Exporting a used server project

The [com.nomagic.magicdraw.teamwork.application.TeamworkUtils](#) class is used to export a used server project.

```
TeamworkUtils.exportTeamworkModule(project, packages, "My used remote
project", remoteProjectQualifiedNames);
```

Example #3. Using a project

The local and server project usage is similar - an appropriate project descriptor must be used, but module directories project option should be updated before using local project:

```
ProjectsManager projectsManager = Application.getInstance().
getProjectsManager();
File file = new File(moduleFilePath);
// update project options only when using local project
String moduleDir = file.getParent();
ProjectOptions projectOptions = project.getOptions();
List<String> directories = projectOptions.getModulesDirectories(true);
if (!directories.contains(moduleDir))
{
    projectOptions.addModuleDirectory(moduleDir);
}
ProjectDescriptor projectDescriptor = ProjectDescriptorsFactory.
createProjectDescriptor(file.toURI());
// Use a project
projectsManager.useModule(project, projectDescriptor);
```

Example #4. Importing a used project

The local and server project import does not differ. Just an appropriate project descriptor must be used:

```
ProjectsManager projectsManager = Application.getInstance().
getProjectsManager();
File file = new File(moduleFilePath);
ProjectDescriptor projectDescriptor = ProjectDescriptorsFactory.
createProjectDescriptor(file.toURI());
projectsManager.importModule(project, projectDescriptor);
```

Example #5. Reloading a used project

The local and server project reload does not differ. Just an appropriate project descriptor must be used:

```
ProjectsManager projectsManager = Application.getInstance().
getProjectsManager();
File file = new File(moduleFilePath);
ProjectDescriptor projectDescriptor = ProjectDescriptorsFactory.
createProjectDescriptor(file.toURI());
projectsManager.reloadModule(project, projectDescriptor);
```

Example #6. The package sharing

```
ProjectsManager projectsManager = Application.getInstance().
getProjectsManager();
SessionManager.getInstance().createSession("Create shared package");
// Create a package to share
Package aPackage = project.getElementsFactory().
createPackageInstance();
aPackage.setOwner(project.getModel());
aPackage.setName("myShare");
SessionManager.getInstance().closeSession();

// Share a package
projectsManager.sharePackage(project, Arrays.asList(aPackage), "my
used project");

// Save a project
ProjectDescriptor projectDescriptor = ProjectDescriptorsFactory.
getDescriptorForProject(project);
projectsManager.saveProject(projectDescriptor, true);
```

Example #7. Editing a used project within the project

```

        final String moduleFileName = new File(moduleFilePath).getName();
        // Find a used project directly used by the project (the primary
project)
        final IAttachedProject attachedProject = ProjectUtilities.
findAttachedProjectByName(project, moduleFileName, false);
        if (attachedProject != null)
        {
            final ModuleUsage moduleUsage = new ModuleUsage(project.
getPrimaryProject(), attachedProject);
            final Set<ModuleUsage> moduleUsages = Collections.singleton
(moduleUsage);

            final boolean readOnly = attachedProject.isReadOnly();
            if (readOnly)
            {
                // Make the used project editable (the read-write
accessibility mode)
                ModulesService.setReadOnlyOnTask(moduleUsages, false);
            }
            // Get the first shared package of the used project
            final Collection<Package> sharedPackages = ProjectUtilities.
getSharedPackages(attachedProject);
            final Package aPackage = sharedPackages.iterator().next();
            // Create a class in the used project
            SessionManager.getInstance().createSession("Create use case in
used project");
            final Class aCase = project.getElementsFactory().
createClassInstance();
            aCase.setOwner(aPackage);
            aCase.setName("myClass");
            SessionManager.getInstance().closeSession();
            // save the used project
            Application.getInstance().getProjectsManager().saveModule(project,
attachedProject, true, false);
            if (readOnly)
            {
                // Make a used project not editable (the read-only
accessibility mode)
                ModulesService.setReadOnlyOnTask(moduleUsages, true);
            }
        }
    }
}

```

Advanced management

Use the [com.nomagic.magicdraw.core.ProjectUtilities](#) utility class for retrieving more project decomposition related information.

Use the [com.nomagic.magicdraw.core.modules.ModulesService](#) or [ProjectsManager](#) classes for managing attached projects.