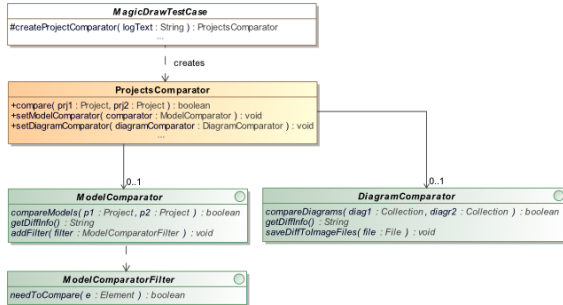


# Comparing projects for testing purposes

To compare two projects for testing purpose, the test framework provides the [com.nomagic.magicdraw.tests.common.comparators.ProjectsComparator](#) class with the [compare\(Project, Project\)](#) method for comparing two projects (see the following figure). The default implementation of [ProjectComparator](#) can be created using the [createProjectComparator\(java.lang.String\)](#) method of the [MagicDrawTestCase](#) class. Projects can be compared by checking their model elements and element symbols in diagrams for equality.



The model elements comparison can be configured using the [com.nomagic.magicdraw.tests.common.comparators.ModelComparator](#) interface. Developers may exclude some model elements from the comparison by providing the custom [com.nomagic.magicdraw.tests.common.comparators.ModelComparatorFilter](#) interface implementation. Please note that the default implementation of [ProjectComparator](#) does not compare the diagram information table, root model comment, and elements from used projects.

The default implementation of [com.nomagic.magicdraw.tests.common.comparators.DiagramComparator](#) compares diagrams for changes by analyzing a location and a size of the symbols presented in diagrams. The graphical differences of compared diagrams can be saved in the graphical PNG file using the [saveDiffToImageFiles\(java.io.File\)](#) method of the [DiagramComparator](#) interface.

Developers may create their own comparators for the custom diagrams and model elements comparison by implementing [ModelComparator](#) and [DiagramComparator](#) interfaces. The custom *Model* and *Diagram* comparators implementation can be set to [ProjectComparator](#) using appropriate setter methods.