

UML Model Implementation Using EMF

Starting from version 17.0, a UML model is implemented using Eclipse Modeling Framework (EMF), that is the UML model is an EMF model. All UML model classes implement the *org.eclipse.emf.ecore.EObject* interface. The UML model can be accessed and changed using the EMF API. For example:

```
// get project model
Package model = project.getPrimaryModel();
// create session
SessionManager.getInstance().createSession(project, "create class");

// get name attribute
EAttribute element_name = UMLPackage.eINSTANCE.getNamedElement_Name();
// get name value (same as model.getName())
Object name = model.eGet(element_name);
System.out.println("name = " + name);
// change name value (same as model.setName(name + "_1");)
model.eSet(element_name, name + "_1");

Class aClass = UMLFactory.eINSTANCE.createClass();

// get packaged element collection
Collection collection = (Collection)
model.eGet(UMLPackage.eINSTANCE.getPackage_PackagedElement());
// add new class (same result as model.getPackagedElement().add
(aClass))
collection.add(aClass);

// close session
SessionManager.getInstance().closeSession(project);
```

Related pages

- [UML model implementation in version 17.0 details](#)
- [UML model implementation in 17.0.1 and up details](#)