



 **EGF Exercices – EMF – UC2**  
**EGF 0.2.5**

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## Understanding basic EMF generation with EGF

### Correction of the exercices

- ▶ Download the org.eclipse.egf.usecase.emf.uc2-egf0.2.5.zip file on the [EGF wiki](#)
- ▶ Use the libray model and project in the org.eclipse.emf.examples.library.zip file

### Prerequisite

- ▶ Installation of Eclipse 3.5.2 or Eclipse 3.6 and egf 0.2.5
- ▶ Read the EGF Tutorial
- ▶ Read the « reuse and customization » EGF tutorial
- ▶ Read the « EMF Generation Patterns » EGF tutorial
- ▶ Understand the « EMF-UC1 » use case

## Problem Statement

- ▶ Writing a factory component which applies an EMF generation with patterns for a given genmodel file
- ▶ Indications:
  - ▶ Start from the UC EMF UC1 / Exercice #2
  - ▶ Create the « Viewpoint container » and « Domain viewpoint » if they don't exist, and create a Domain URI element which refers a genmodel
  - ▶ Invoke the « EMF [Model | Edit | Editor] Pattern » factory component with the domain URI element as parameter

## Learning

- ▶ Understanding a simple EMF generation with patterns

## Difficulty

- ▶ 2/5

## Correction

- ▶ EMF\_Library\_UC2\_1.fcore

## Problem Statement

- ▶ The set and get feature methods must be created for Writer. On the other hand, it would be useful to know the books of a library and the stock of a library.
- ▶ Indications:
  - ▶ Create four patterns: 1) for Writer and Library, 2) for generating the get and set methods. The get/set patterns inherit from the « Class.getGenFeature.TODO.override » and « Class.setGenFeature.TODO.override » patterns.
  - ▶ In the preCondition, write the precondition to apply the pattern
  - ▶ In a doGenerate method, write the get/set generation code
  - ▶ Invoke « EMF [Model | Edit | Editor] Pattern » factory component. For the Model, add a pattern substitution. This is a list of three substitution [super-pattern EMF pattern] / [pattern created for overriding]

## Learning

- ▶ Understanding a customization of the EMF generation with patterns

## Difficulty

- ▶ 3/5

## Correction

- ▶ EMF\_Library\_UC2\_2.fcore