## THALES



→ EGF Exercices – Pattern – UC3 Reporting of Model-to-Text Transformations

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# Objective of this document

## Understanding how to realize M2T reporting and postprocessing with EGF patterns

## Plugin

org.eclipse.egf.usecase.pattern.uc3.m2treporting

## **Prerequisite**

- Read the EGF Tutorial
- Read the EGF Tutorial / Reporting of Model-to-Text Transformations



Writing a pattern which displays on the console the list of classes of an ecore model

## Learning

Report on console

## **Difficulty**

1/5

#### Correction

Pattern\_UC3\_1\_ReportOnConsole.fcore



Writing a pattern which writes, in one file, the list of classes of an ecore model

## Learning

Using a reporter to write a generation result from patterns in one file

## **Difficulty**

2/5

#### Correction

- Pattern\_UC3\_2\_ReportInOneFile.fcore
- The result is created in a « test » project, folder « Pattern\_UC3 »
- Two versions are proposed:
  - One factory component integrating the pattern and the production plan
  - A dissociation of a FC launcher which provides a reporter to a common FC which contains the pattern and the production plan



- Writing a pattern which writes for each class, in separate files, the name of this class
- Difference with the previous exercice: just changing the reporter which splits the result of each pattern class by file (and not in one file)

## Learning

Using a reporter to write a generation result from patterns in several files

## **Difficulty**

2/5

#### Correction

- Pattern\_UC3\_3\_ReportInSeveralFiles.fcore
- Reuse of the common FC, created during the previous exercice, called with a FC providing the specific reporter



- Like Exercice #2, writing a pattern which writes in one file the names of ecore classes
- Defining a sub-task of « Domain-Driven Pattern Strategy » which adds two parameters for setting the Project and Folder Names where the file is generated

## Learning

Adding new report parameters to a task which are used by a reporter

## **Difficulty**

3/5

#### Correction

Pattern\_UC3\_4\_ReportWithAdditionalReportParameters.fcore



- Implementing a factory component :
  - containing two patterns for class and attribute
  - which displays the name of each class and attribute
- Next, writing a class (e.g., MyPatternProcessor.java) for post-processing the ouput of the pattern-based generation

## Learning

Understanding the mechanism of M2T post-processing

## **Difficulty**

3/5

#### Correction

Pattern\_UC3\_5\_patternOutputProcessor.fcore

