GenModelAddon

Modeling Symposium ECE 2016
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GenModelAddon

OPCoach

OPCOACH
ECLIPSE TRAINING AND CONSULTING

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- **Training/Consulting** : RCP, E4, Modeling, Build, given in French, English and ... Spanish
- *http://www.opcoach.com/*[1]
- **@OPCoach_Eclipse**, **@OPCoach_Job**

MDD best practices

- Separate the generated code and overridden code
- Do not commit the generated code
- Integrate the generation process to build
- Override the generated class using inheritance
- Generate a clean code: even if it is generated, it must be human readable
- Test generation with a default model

Source article : *http://www.infoq.com/articles/model-driven-dev-best-practices* [2]

genmodeladdon

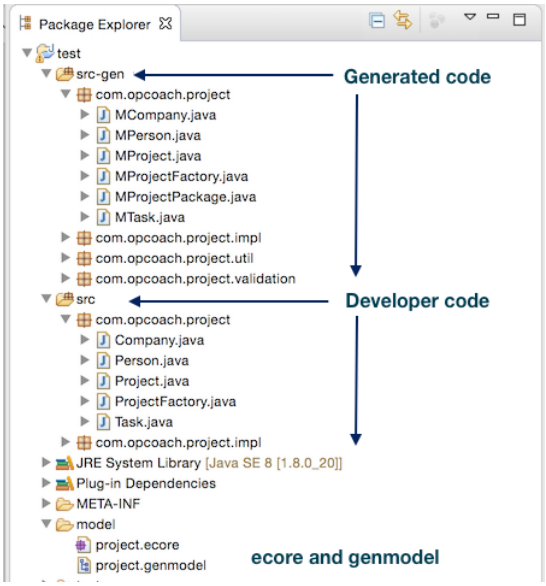
genModelAddon will help you to achieve this goals

- It provides a way to split the generated code into src-gen and src

1 - http://www.opcoach.com/en
2 - http://www.infoq.com/articles/model-driven-dev-best-practices

- It manages inheritance, subpackages and referenced models
- It works with generics
- It initializes the factory override extension
- It uses the main EMF generation for the generated part (compliant with CDO)
- It produces all the classes in the developper part

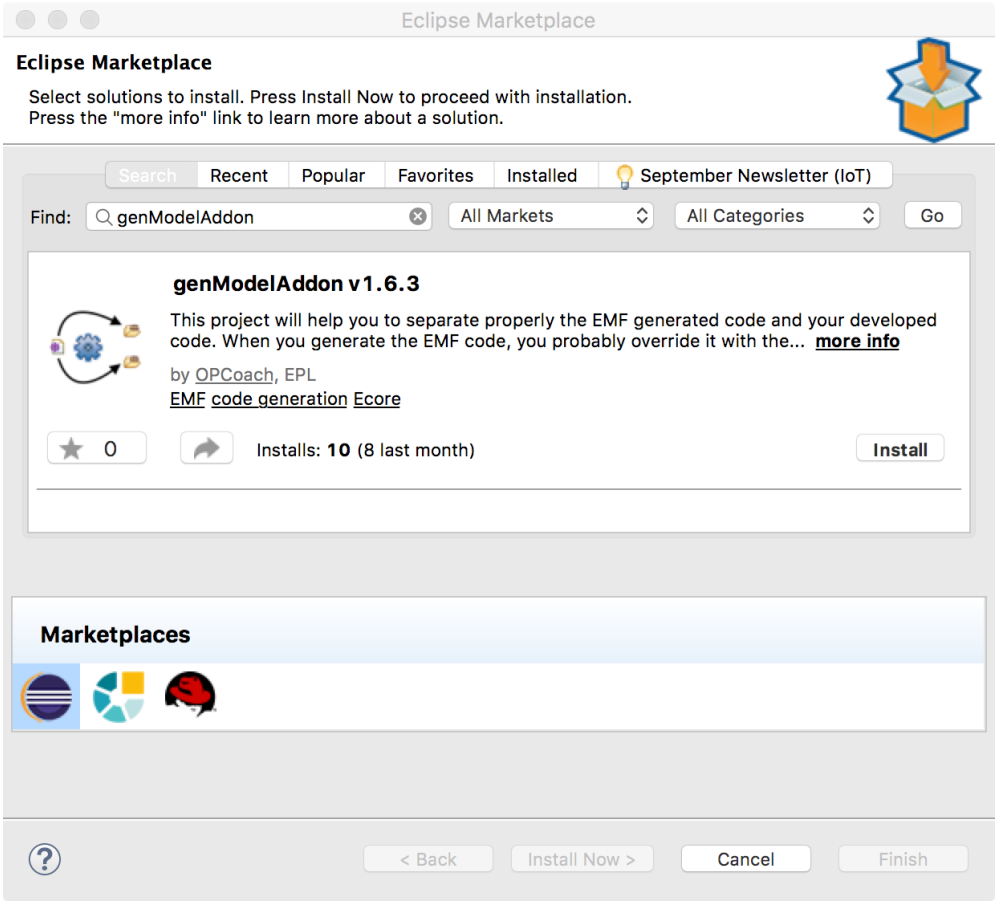
genModelAddon is hosted here : *http://opcoach.github.io/genModelAddon/*[3]
It is fully written using E4 style (model fragments and injection)



3 - http://opcoach.github.io/genModelAddon/

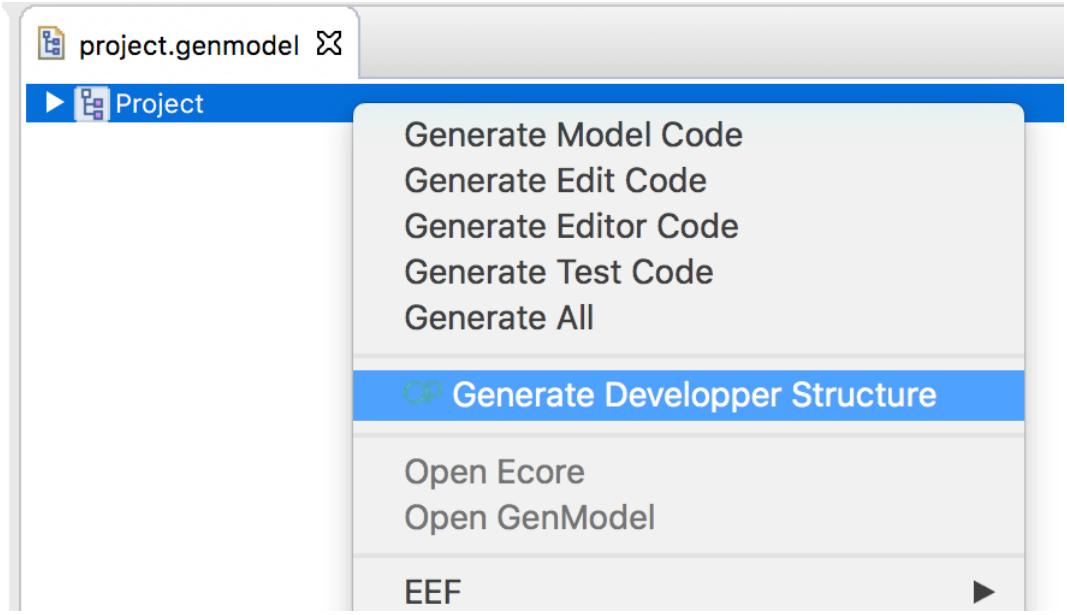
How to install it ?

Just look for 'genModelAddon' on the market place :

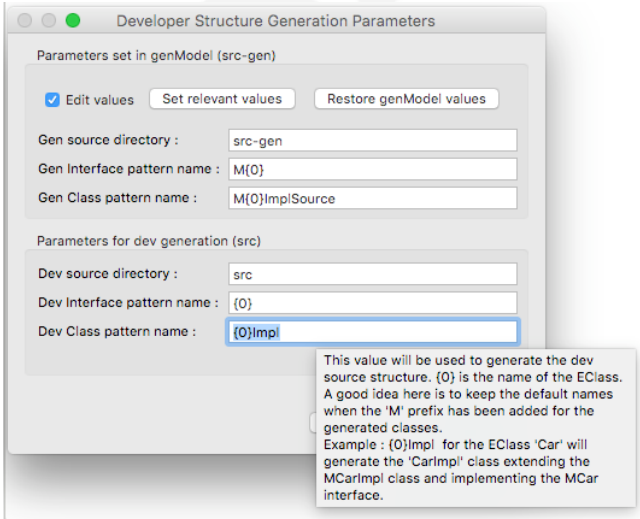


How to use it ?

In your genmodel editor, right click on the root node :



And then fill the dialog with relevant values :



In your code you can directly use your developper code :

```
// MProjectFactory is the generated factory. It was used like this :
MProjectFactory mfactory = MProjectFactory.eINSTANCE;
MTask mt = mfactory.createTask();

// Now the ProjectFactory extends the MProjectFactory and
// creates instances of the developer objects. You can get it directly like this :
ProjectFactory factory = ProjectFactory.eINSTANCE;
Task t = factory.createTask();
```

Some metrics

- started in december 2014
- 59 issues (57 closed)
- 67 unit tests
- hosted on github
- used by several companies (Sogeti, Airbus, ...)

How to be involved

There is a slack channel to be informed about :

- new releases
- issue fixes
- general discussions about the project

During the conference :

- ask me a demo

After the conference :

- ask me questions : olivier@opcoach.com

You can get an example of generated code here :

https://github.com/opcoach/genModelAddon

in the 'example' folder. The model folder contains the model and the genmodel.