

E-PORTFOLIO

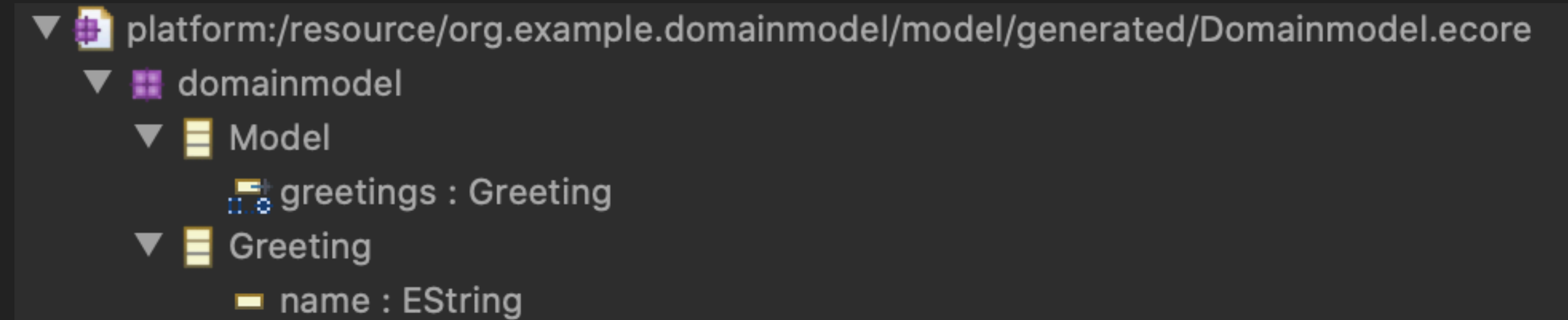
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**EMF AND XTEXT**

# WHAT IS EMF?

# WHAT IS EMF?

- ▶ Java-Framework
- ▶ Allows automatic generation of source code
- ▶ Core is a Domain model (ecore modell)
- ▶ Can be generated from
  - ▶ Java Interfaces
  - ▶ XSD
  - ▶ UML



platform:/resource/org.example.domainmodel/model/generated/Domainmodel.ecore

- ▼ domainmodel
  - ▼ Model
    - greetings : Greeting
  - ▼ Greeting
    - name : EString

```
grammar org.example.domainmodel.Domainmodel with org.eclipse.xtext.common.Terminals
```

```
generate domainmodel "http://www.example.org/domainmodel/Domainmodel"
```

```
Model:  
    greetings+=Greeting*;
```

```
Greeting:  
    'Hello' name=ID '!' ;
```

**WHAT IS XTEXT?**

# WHAT IS XTEXT?

- ▶ Open-Source framework
- ▶ Used to generate new languages
- ▶ Part of the EMF
- ▶ Generates the Abstract Syntax Tree (AST)
- ▶ Has an own Editor implemented in Eclipse

## STRUCTURE OF A XTEXT PROJECT

- ▶ Has five Part Projects
- ▶ Separates the code, ide, ui and tests
- ▶ Most important one is the first Project
  - ▶ Home of the ecore modell and the .xtext file

- ▶  org.example.domainmodel
- ▶  org.example.domainmodel.ide
- ▶  org.example.domainmodel.tests
- ▶  org.example.domainmodel.ui
- ▶  org.example.domainmodel.ui.tests



