Understand complex EMF models like an expert

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Interactive (Meta) Model Explorer

Model Explorer
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Model Explorer – EObject references in model scope (usage)

On selection of any EObject, it is possible generically to find its usage across the model scope and display the contents in diagram view.

-- On click of element in diagram view, there is a possibility to directly select element in editor
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Model Explorer – select model data in editor
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Meta Model Explorer
Interactive (Meta) Model Explorer

Meta Model Explorer

Provides possibility to visualize the contents of selected metamodel available in runtime environment.

Select metamodel available in runtime registry to display the contents.

These options are used to view the contents in Graphical Viewer based on PlantUML.
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Meta Model Explorer - Filters

- Enable Attribute search
- Attribute search in meta model
- Enable Class elements search
- Class elements search in meta model
Meta Model Explorer – EClass all references

On selection of Eclass it is possible to generate graphical contents which displays the usage of Eclass element.

e.g: In screenshot it displays that -
- Runnable element has a list of TaskRunnableClass (relation is not containment)
- ProcessPrototype element has a list of TaskRunnableClass (relation is containment)
On selection of Eclass it is possible to generate graphical contents which displays the hierarchy of Eclass element.
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Meta Model Explorer – Eclass contents and hierarchy

On selection of Eclass it is possible to generate graphical contents which displays the **UML diagram** of Eclass element and its associated elements.
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(Meta) Model Explorer – instant navigation

Instant navigation across elements based on the last executed command helps the developers to understand the relation across various elements.
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Implementation

@startuml

skinparam class {
BackgroundColor PaleGreen
ArrowColor SeaGreen
}
skinparam stereotypeCBackgroundColor YellowGreen
skinparam stereotypeCBackgroundColor <<H>> DimGray
class "TaskAllocation"<<SelectedElement>> [\_/0dJCMGeEeeoi9aUfAez2g] { 
EInt priority [0:1] 
Task task [1:1] 
TaskScheduler scheduler [1:1] 
Core coreAffinity [0:*] 
... 
}

PlantUML

http://plantuml.com/

has to be installed manually

PlantUML

http://plantuml.com/

Graphviz

http://www.graphviz.org/
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Setup

![Preference page for AMALTHEA Graphical Representation settings](image)
Try it!

Update site

Give us feedback
Improve it

APP4MC Tools git repository
- http://git.eclipse.org/c/app4mc/org.eclipse.app4mc.tools.git/