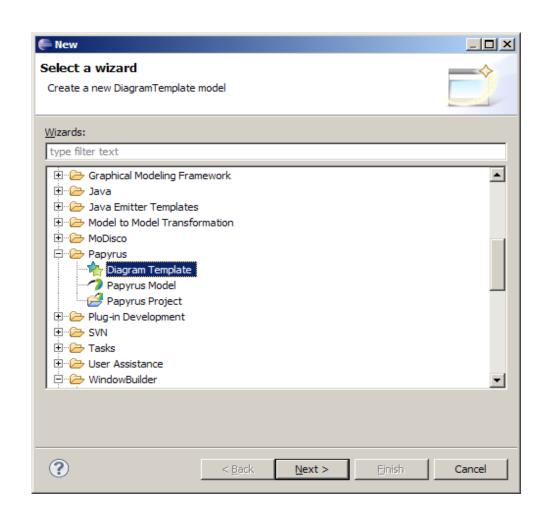
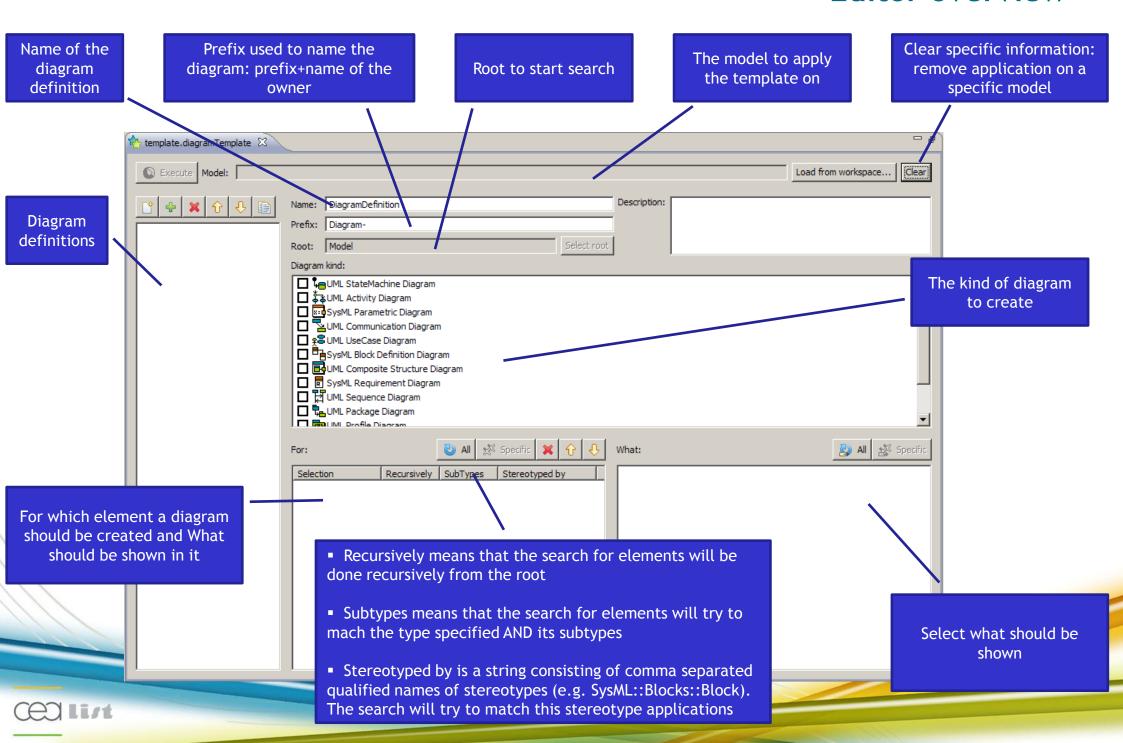


Create a new diagram template

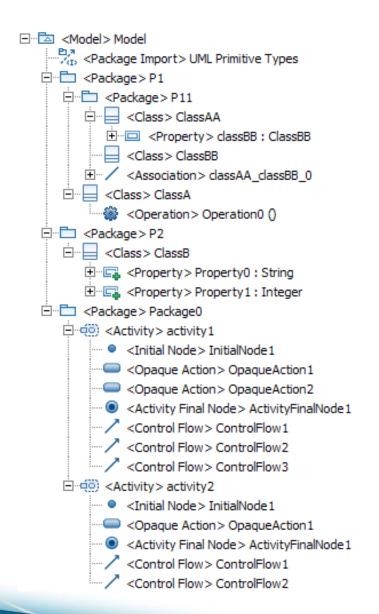




Editor overview



Case study



- Create class diagrams for all packages
 - Show classes
 - Show attributes and operations
 - Show associations
- Create an activity diagram for activity1
 - Show ControlFlows



Template editor

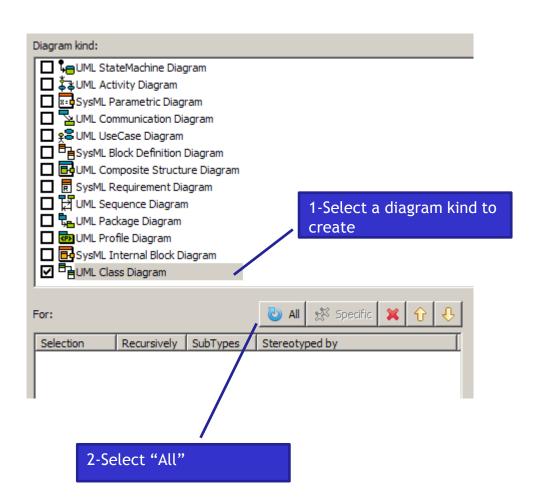
Create generic templates

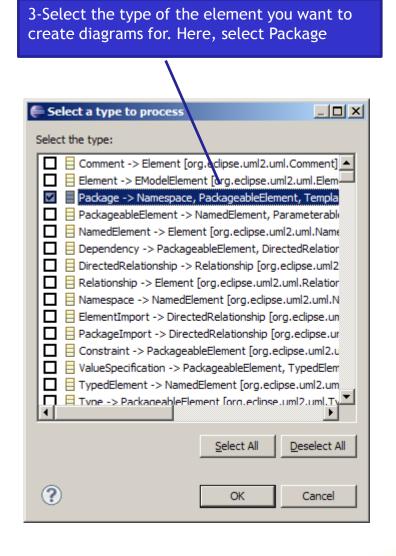
Apply template to a specific model

Execute the template



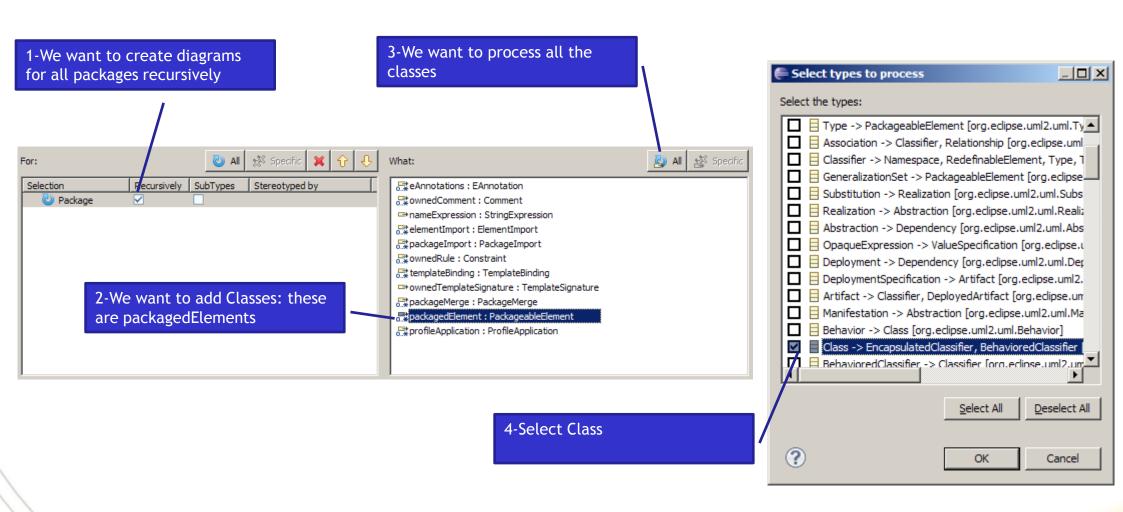
Create generic templates Create class diagrams for all packages



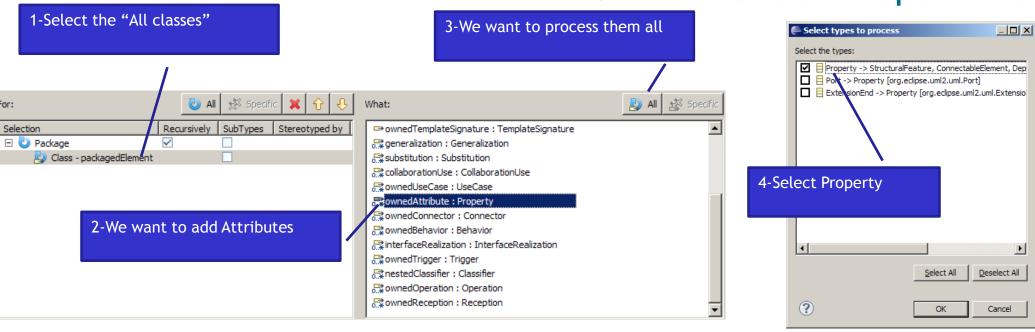


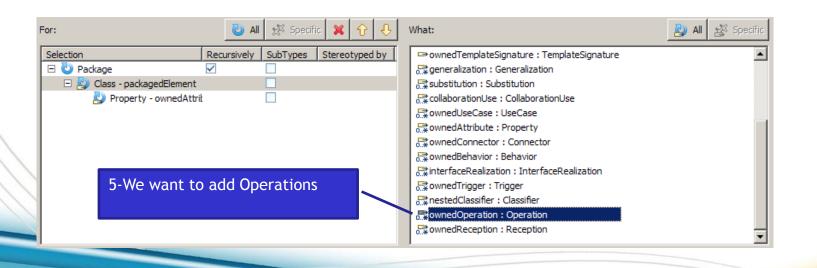


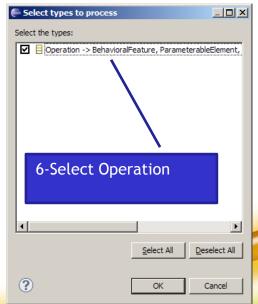
Create generic templates Show classes



Create generic templates Show attributes and operations

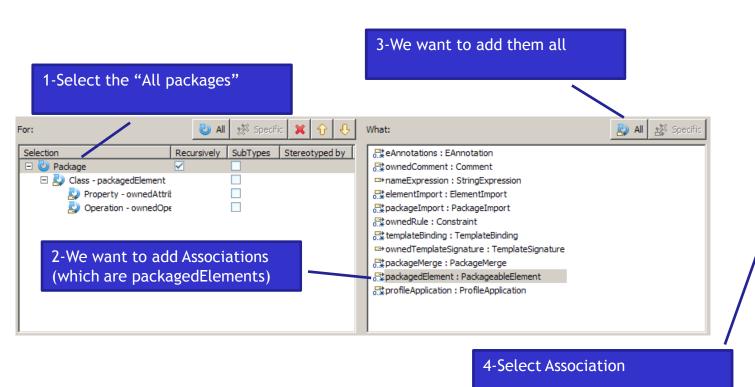


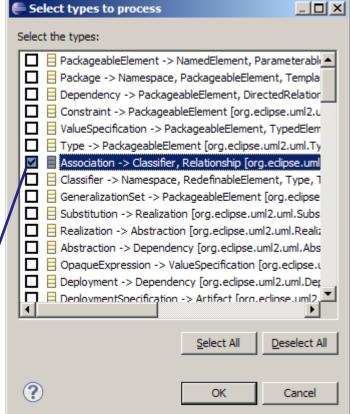


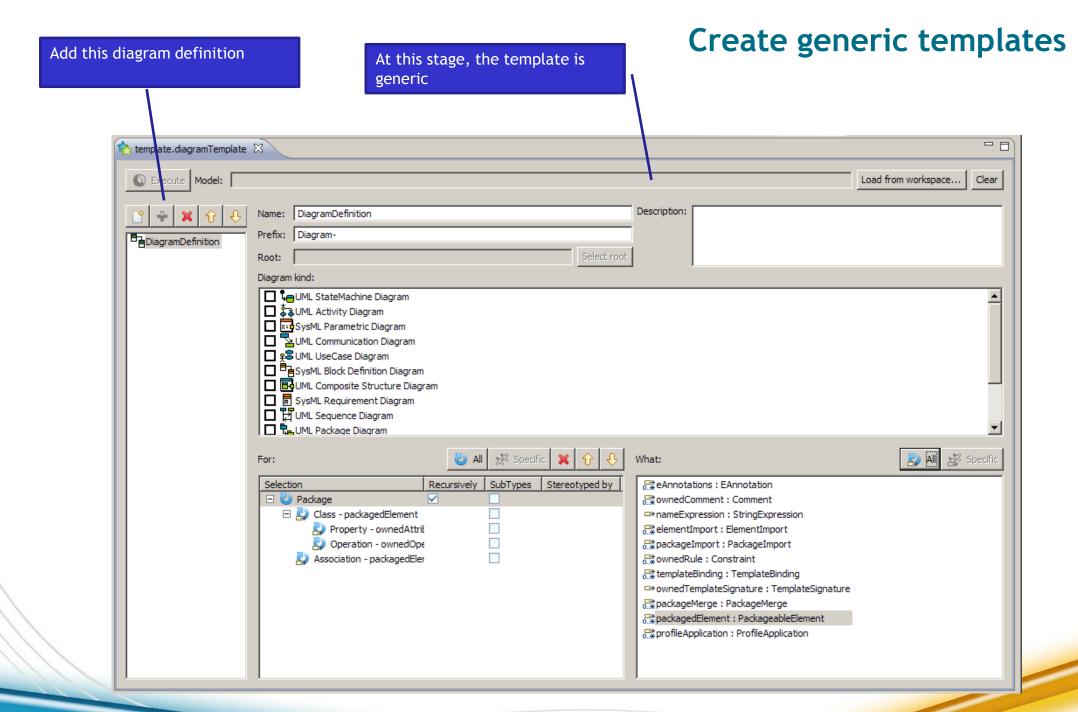




Create generic templates Show associations

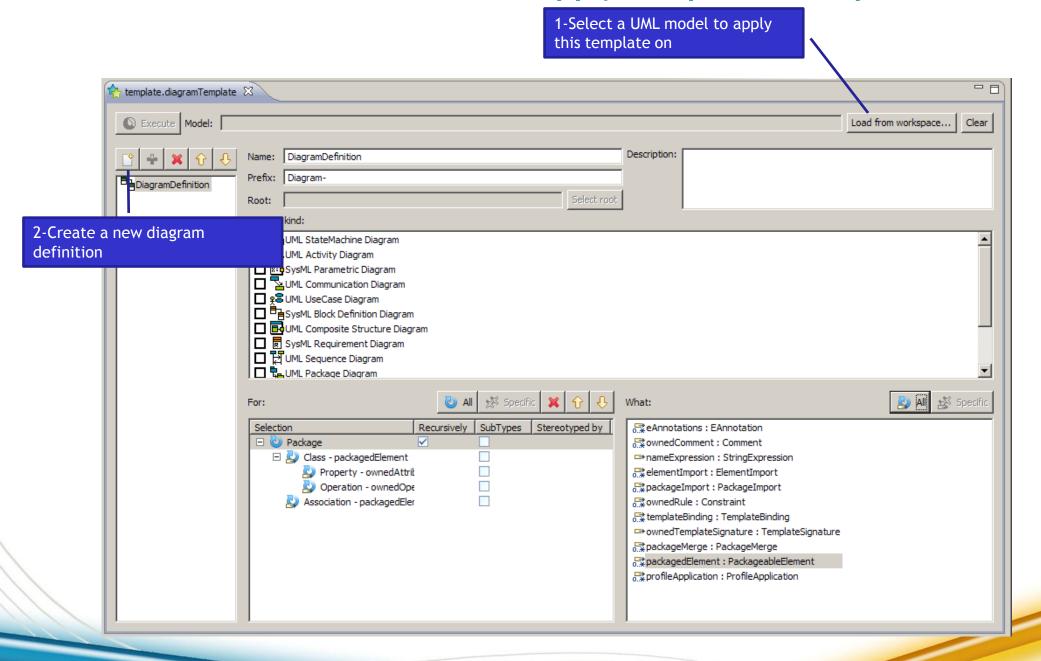






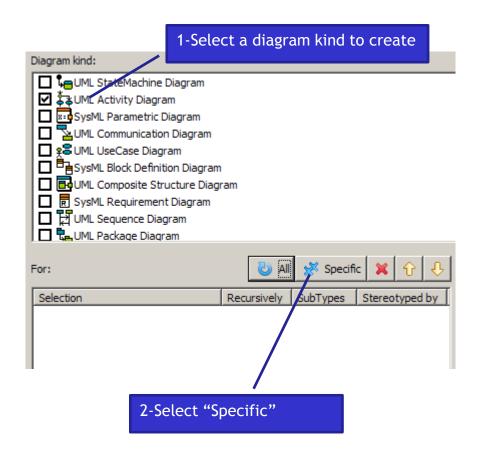


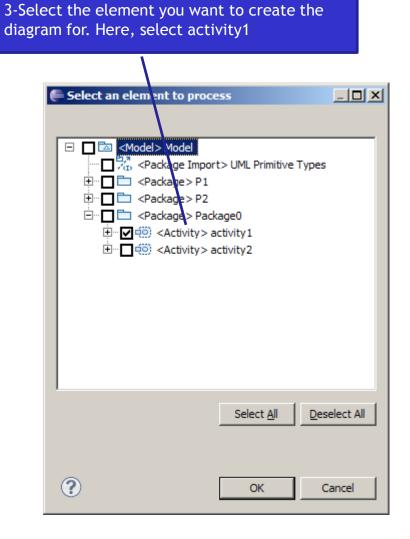
Apply template to a specific model





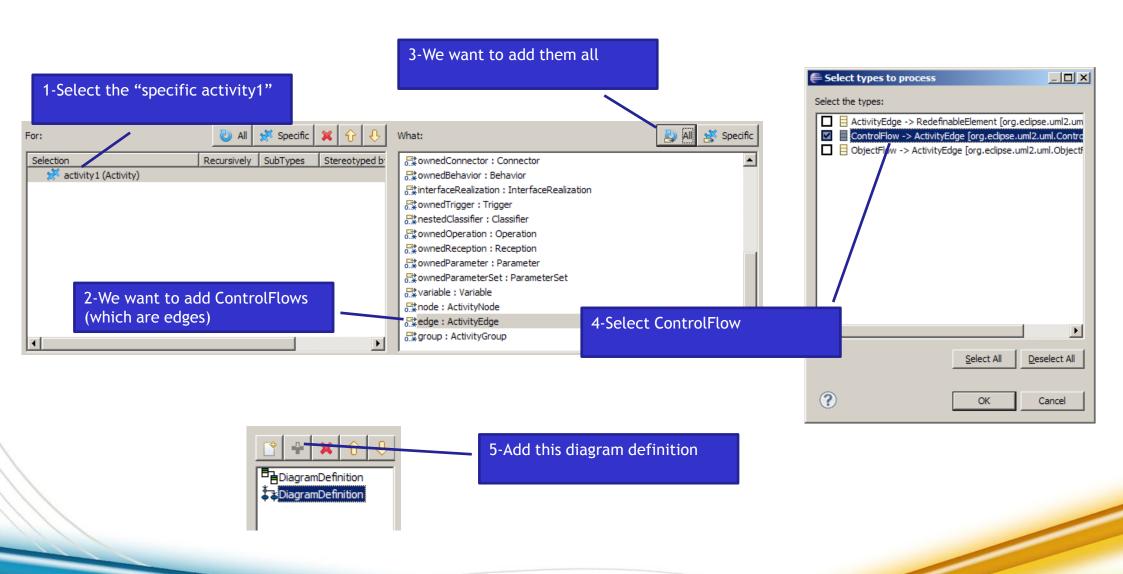
Apply template to a specific model Create an activity diagram for activity1







Apply template to a specific model Show ControlFlows

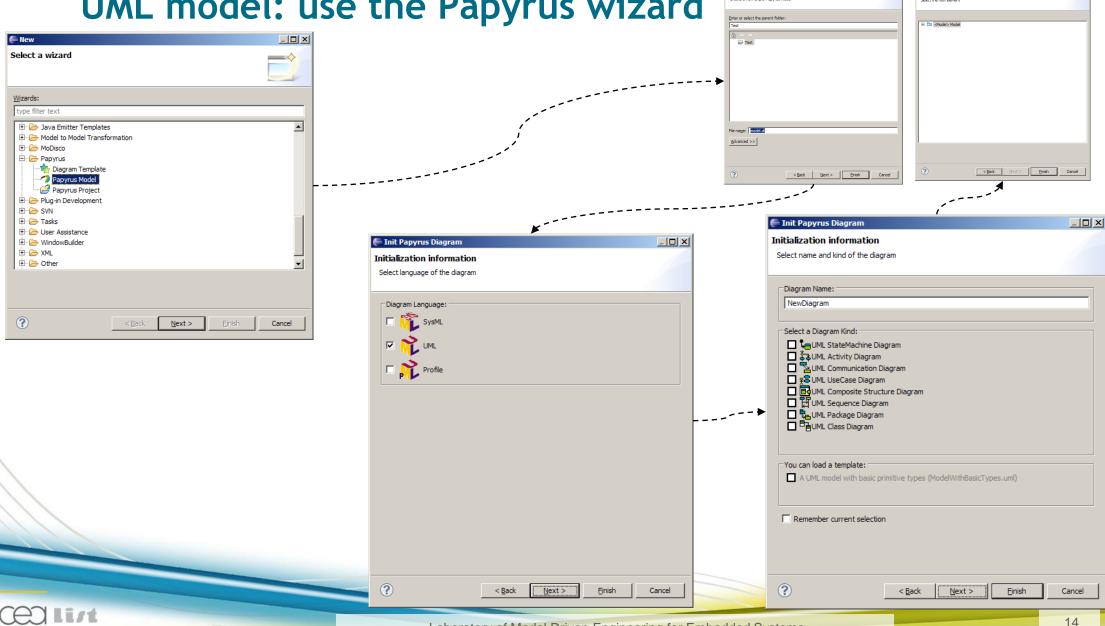




Execute the template

• An empty Papyrus diagram must be created for the

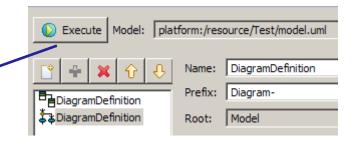




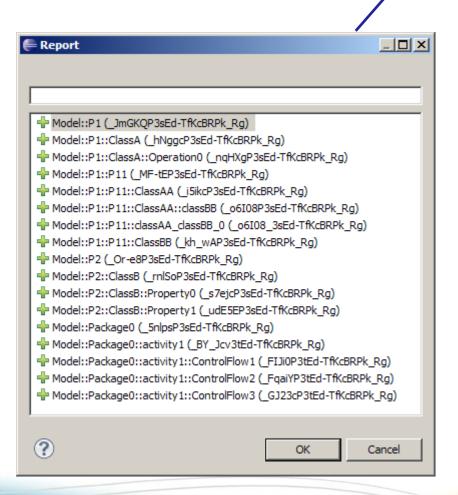
Laboratory of Model Driven Engineering for Embedded Systems

Execute the template

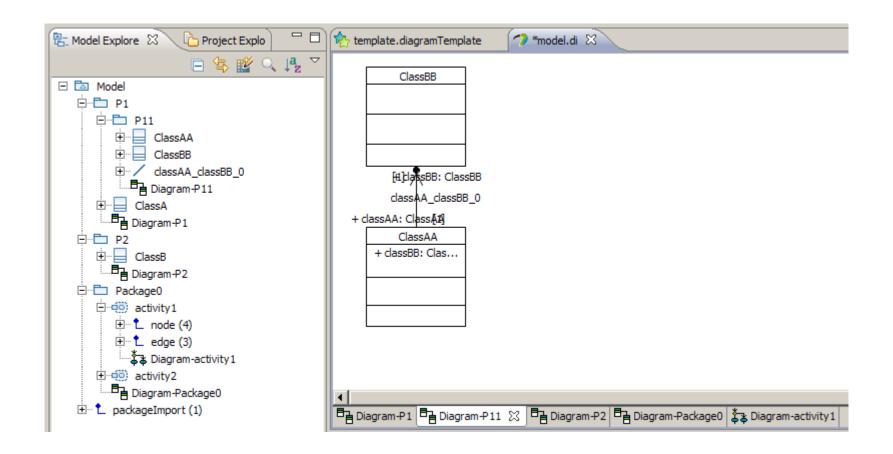
1-When your template is definedExecute



2-You get a report of what has been added (green +). If something matches the template definition but failed to be shown on a diagram or a diagram cannot be created, you will get a red X for it



Result





Limitations and Future work

- If the drag and drop feature is not well implemented then the diagram generation will fail
 - Post a bug to the developer responsible for the diagram that failed.
- Expressivity is clearly not enough
 - Use queries (Modisco) to define :
 - for which elements diagrams are to be created
 - what to show on each diagram
- Layout of generated diagrams is not always adequate
 - Post process generation with advanced auto layout algos
 - Let the template designer choose which layout to apply on a diagram definition
- Report is too laconic
 - A verbose trace should be generated

