



PROJET

Ingénierie dirigée par les modèles

Realisé par :

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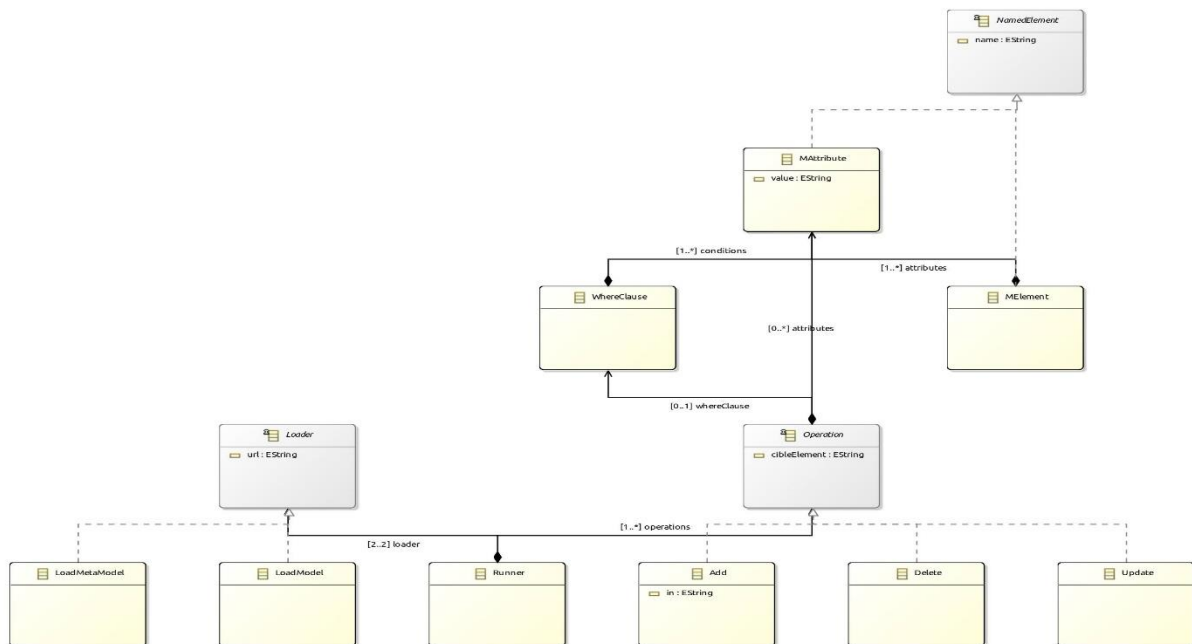
Braksa Salim

Dahhou Sara

Zguindou abdelghafour

Partie textuelle :

Métamodèle de changement :



Description :

Metamodel décrivant les différentes opérations de changement

Grammaire :

Runner: 'load' '{ Loader ',' Loader }' 'begin' ':' 'operations' Operation ('operations' = Operation)*
'end'

Loader: LoadMetaModel | LoadModel

Operation: (Add | Update | Delete) ';'

EString: STRING | ID;

LoadMetaModel: 'metamodel' 'from' 'url' '=' EString

LoadModel: 'model' 'from' 'url' '=' EString

MAttribute: 'name' '=' ID ',' 'value' '=' EString

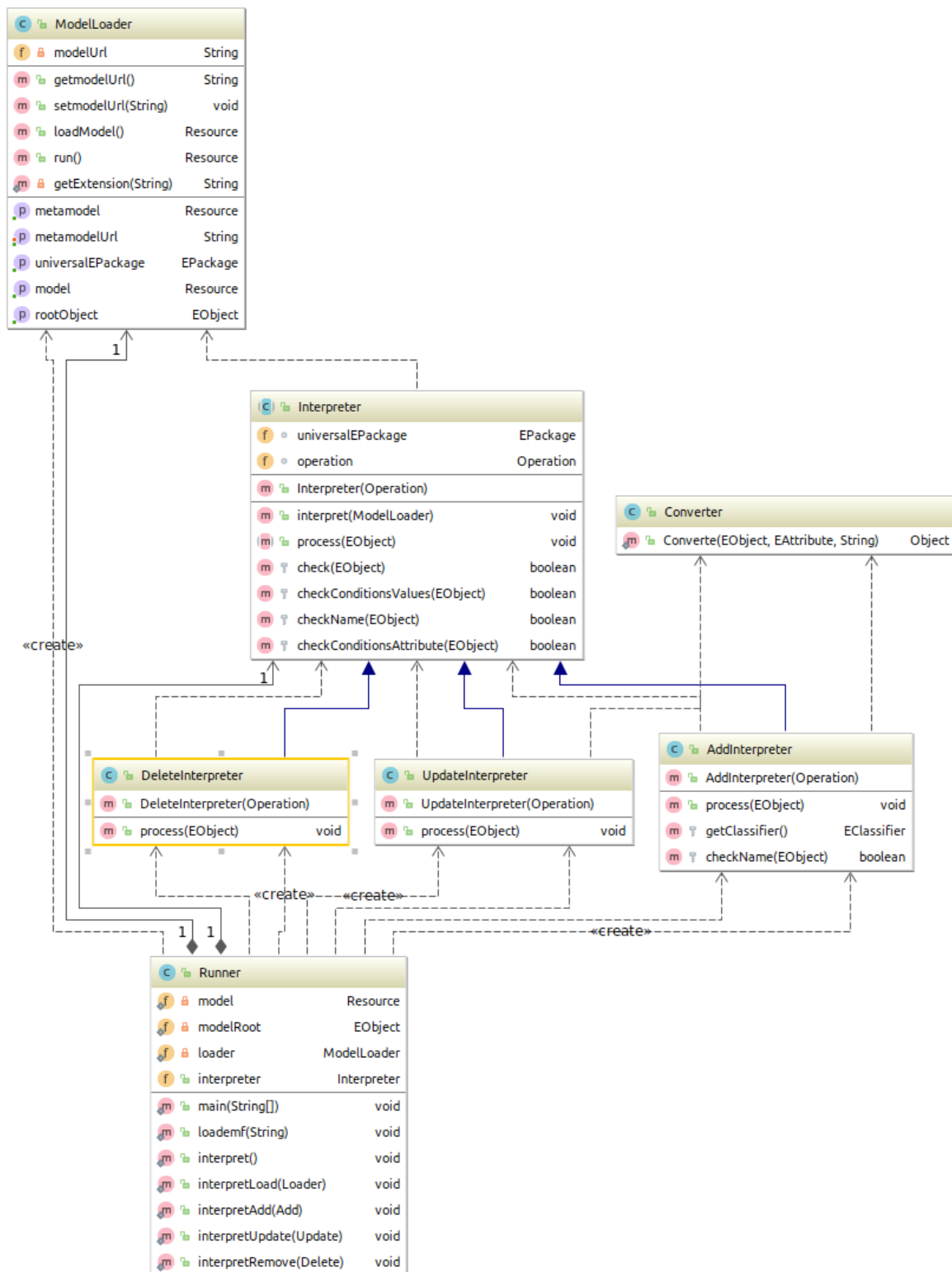
WhereClause: 'where' '(' 'conditions' '=' MAttribute (',' 'conditions' '=' MAttribute)* ')'

Add: 'add' EString ('in' EString)? ('with' '(' 'attributes' '=' MAttribute (',' 'attributes' '=' MAttribute)* ')')? (WhereClause)?

Update: 'update' EString 'set' '(' 'attributes' '=' MAttribute (',' 'attributes' '=' MAttribute)* ')'
(WhereClause)?

Delete: 'delete' EString (WhereClause)?

Diagramme de classe du back-end du projet :



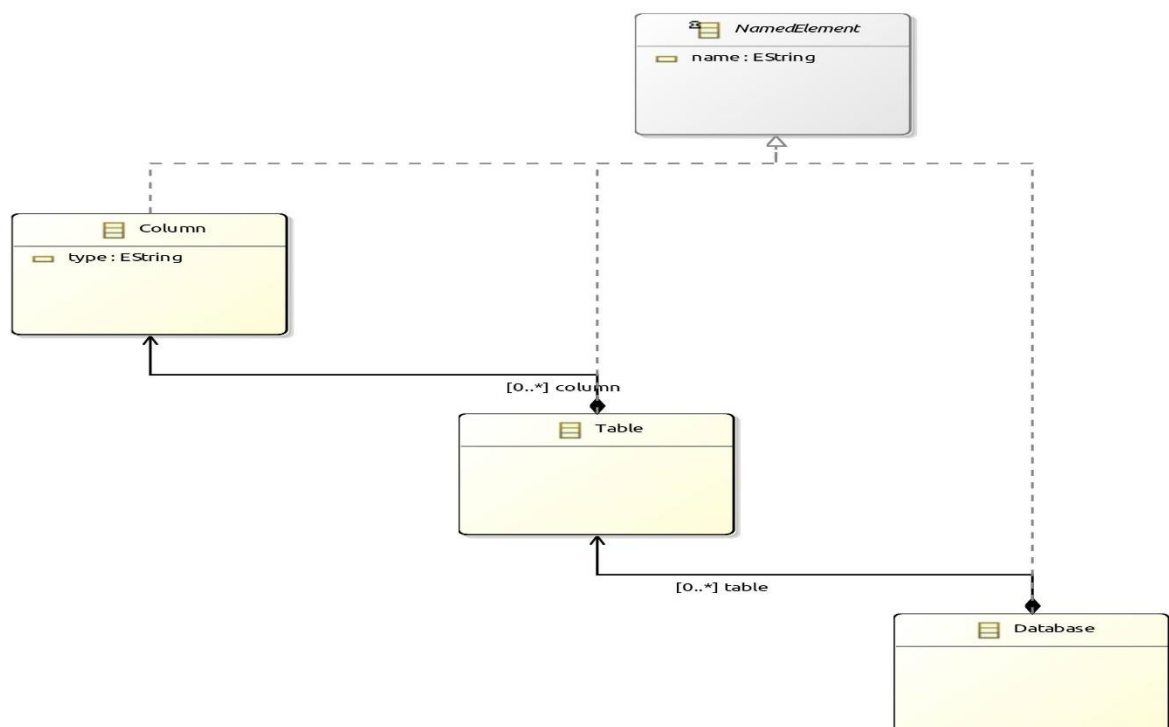
Example :

```
load { metamodel from "/home/zguindou/modiling-eclipse-  
workspace/idm_transformator/RobotWork/metamodel/sql.ecore", model from  
"/home/zguindou/modiling-eclipse-  
workspace/idm_transformator/RobotWork/model/sql.model" }
```

begin:

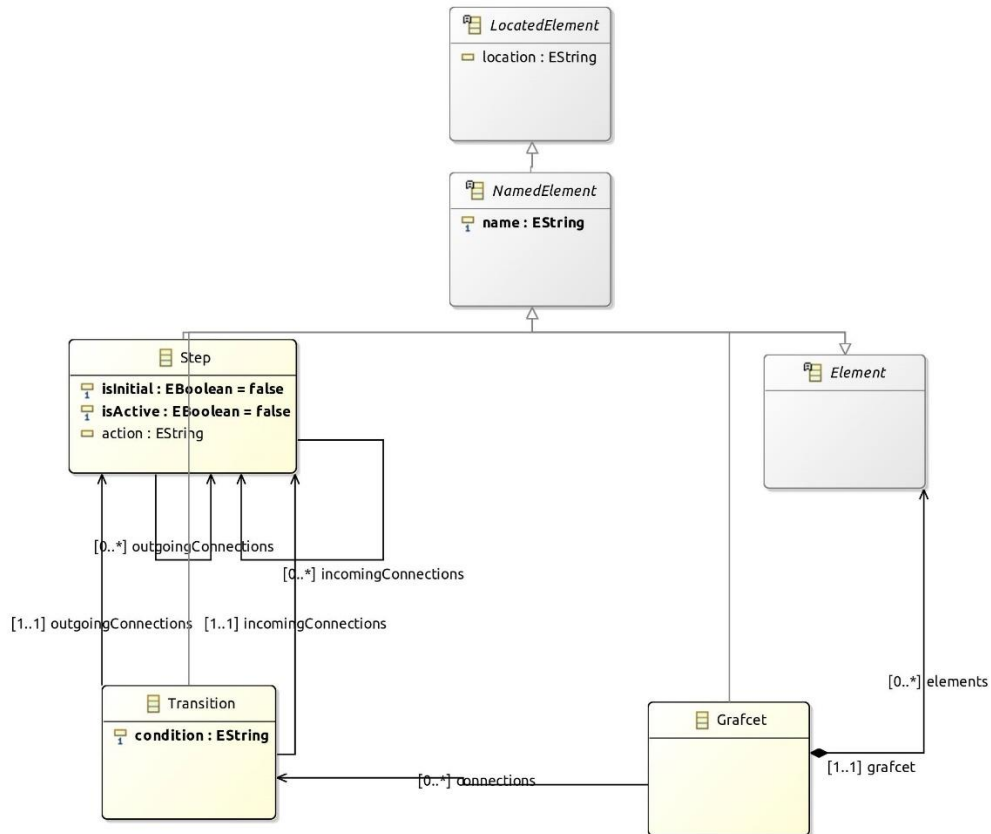
```
//delete table where (name = "ZGUINDOU" );  
  
//delete table where (name = "Departement" );  
  
//add table in Database with ( name = "ZGUINDOU") where ( name = "ensias"  
);  
  
//add column in table with ( name = "LOLO", type = "LOLO") where ( name =  
"ZGUINDOU" );  
  
//add table in Database with ( name = "Done") where ( name = "ensias" );  
//add column in table with ( name = "name", type = "string") where ( name =  
"Done" );  
  
//update table set ( name = "tamo" ) where ( name = "ZGUINDOU" );  
//delete table where (name = "tamo" );  
  
add table in Database with ( name = "Admin") where ( name = "ensias" );  
add column in table with ( name = "name", type = "string") where ( name =  
"Admin" ); end
```

Exemple de modèle à traiter :

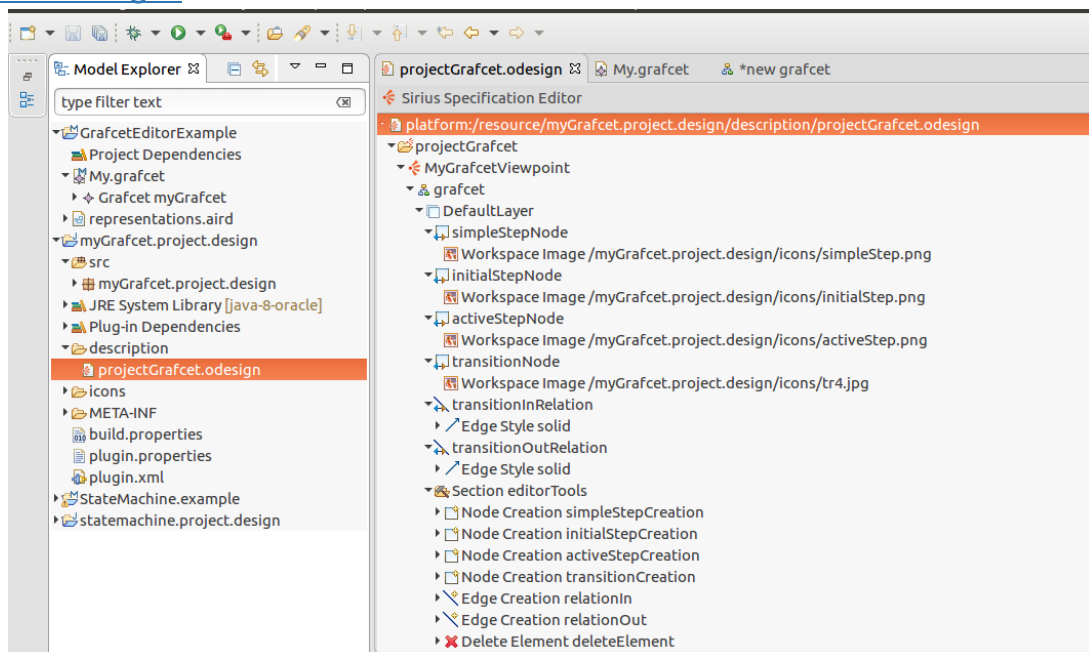


Partie graphique :

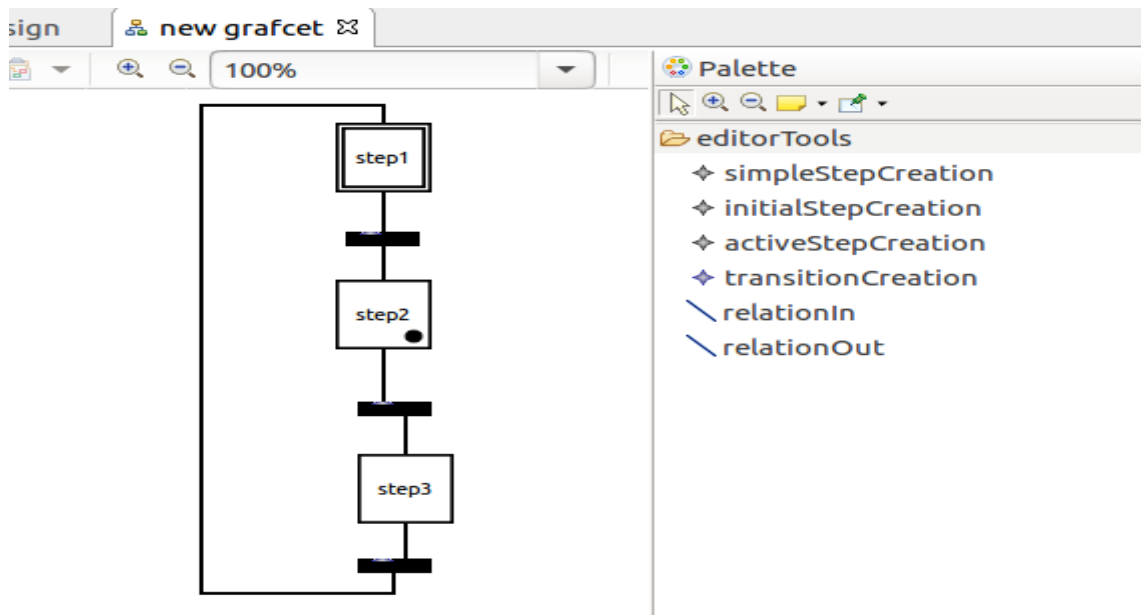
Grafcet :



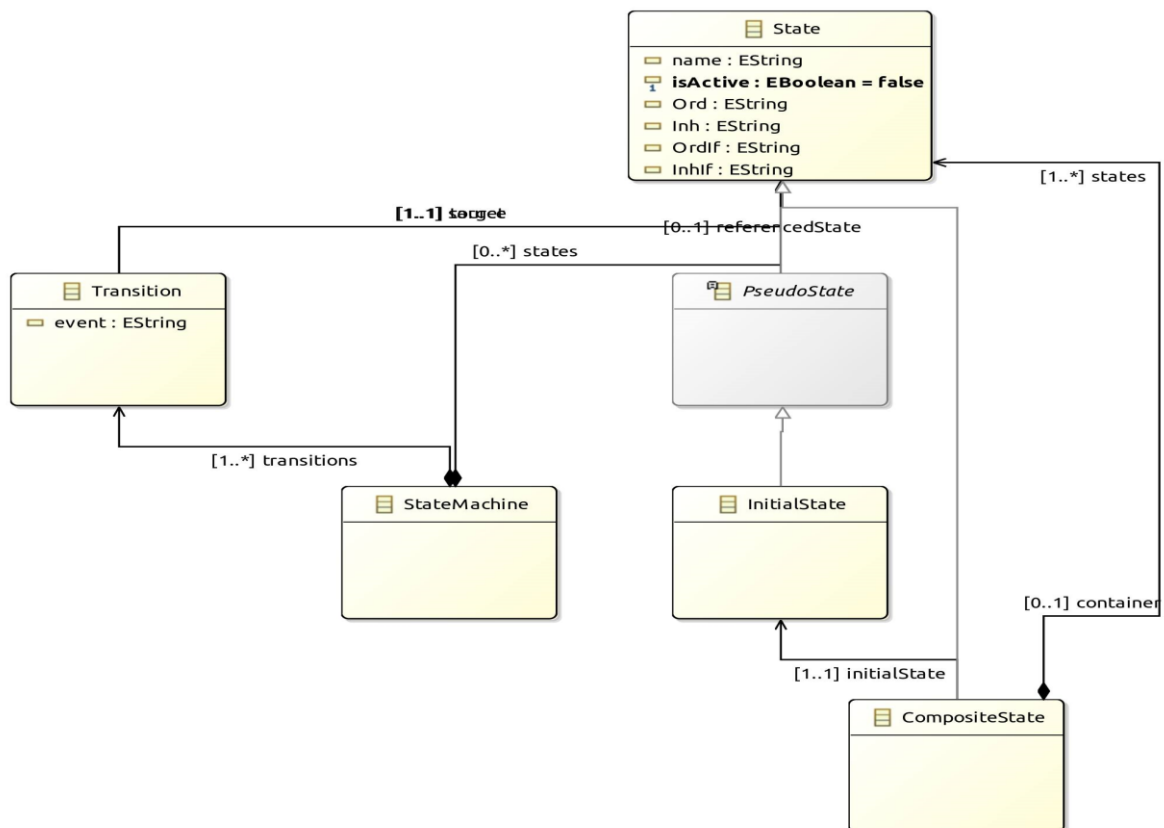
Grefcet.odesign :



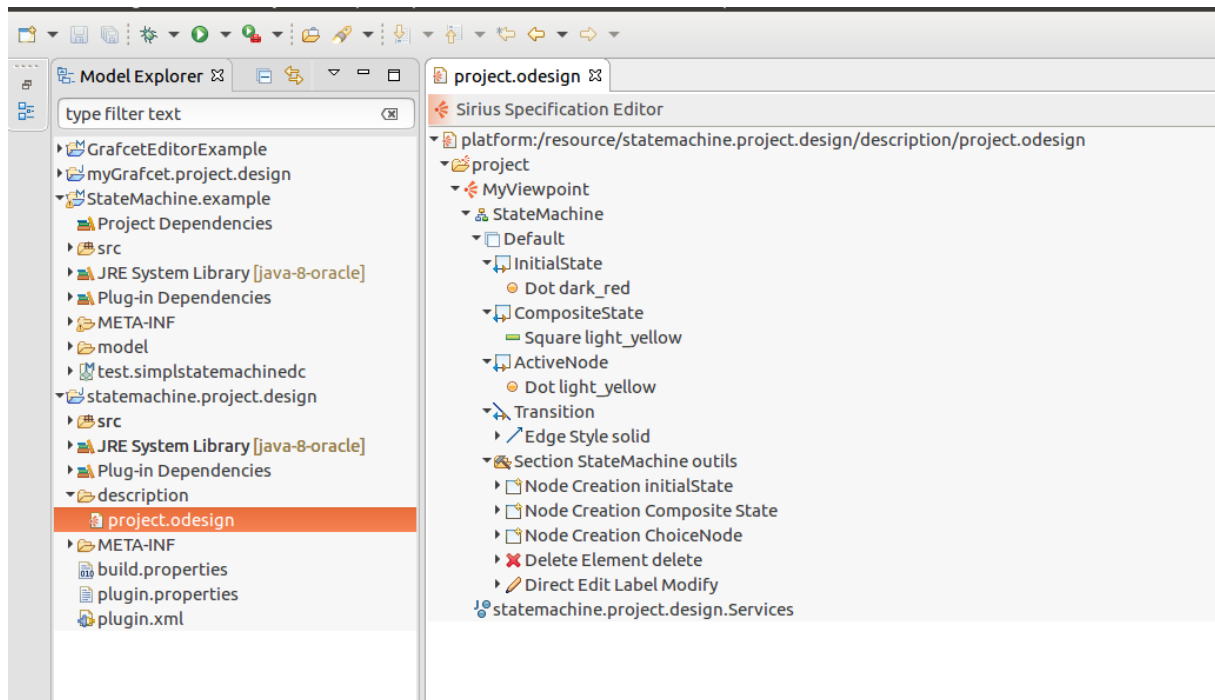
Exemple Grafcet :



State Machine



Projeto.odesign :



Exemple State Machine :

