

SRML Editor Tutorial (2)

CO7205 Advanced System Design

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Lab sheet and materials

<http://www.cs.le.ac.uk/srml/>

Problem with Eclipse 3.4....

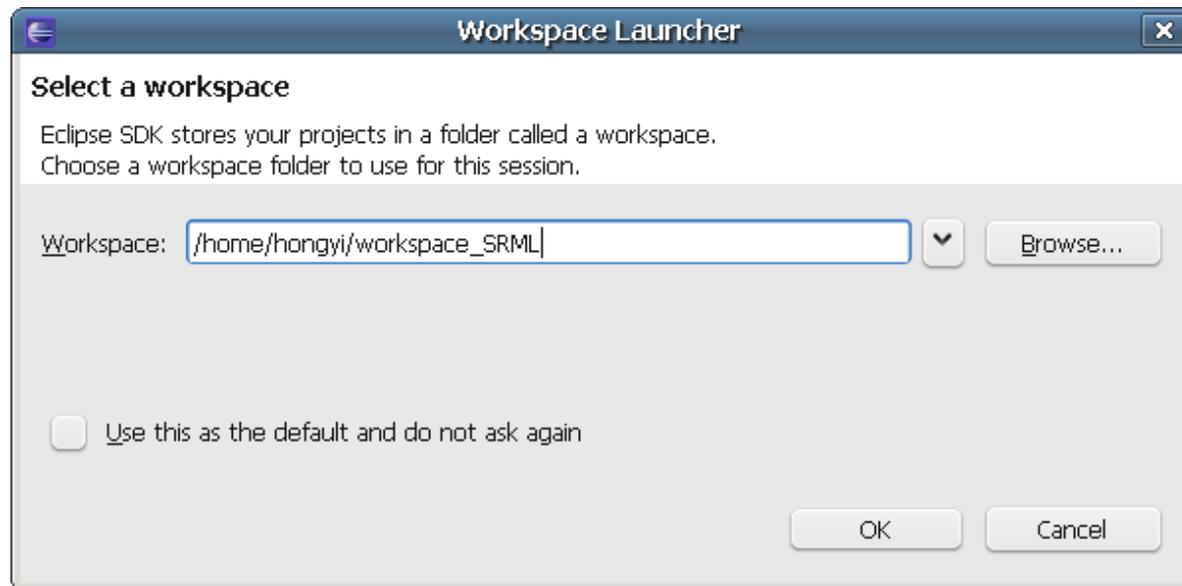
- Some of you may have problem with Eclipse 3.4. If it failed to start with following message:



- Please provide your CFS id to departmental system administrator, who will be there with us on 2nd November.

Start SRML Editor in MSc lab

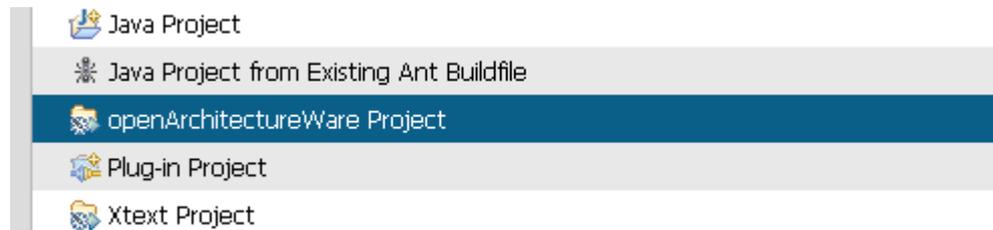
- Lab sheet and materials
 - <http://www.cs.le.ac.uk/srml/>
- Launch Eclipse 3.4 from Menu->Programming->Eclipse 3.4
Create a new workspace e.g. *workspace_SRML*



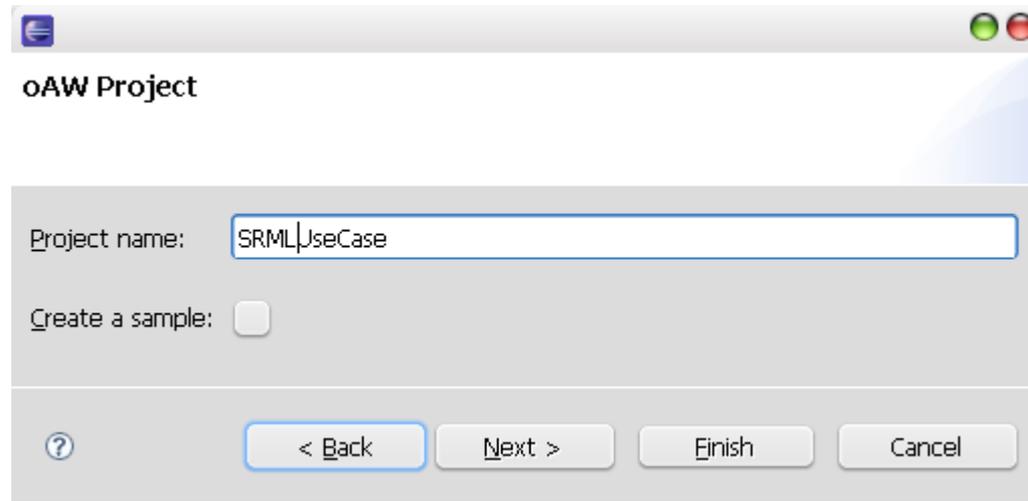
Use Case Scenarios to SRML

Create a new OpenArchitectureWare project

(1) File->New->Other->openArchitectureWare project



(2) Name the project "SRMLUseCase"



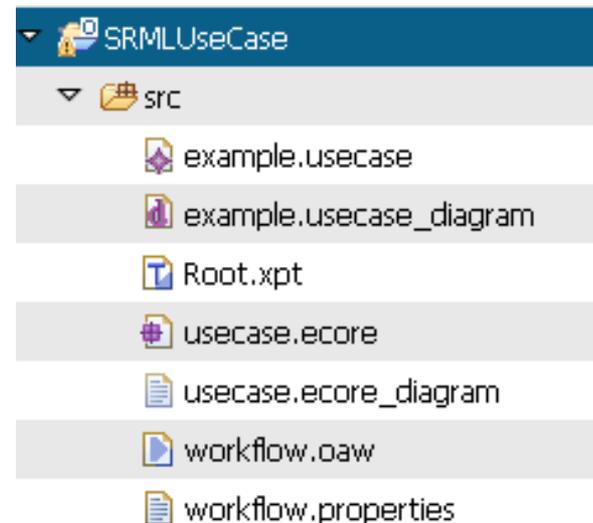
Use Case Scenarios to SRML

- Download SRML UseCase package from

http://www.cs.le.ac.uk/srml/example/usecase_package.zip

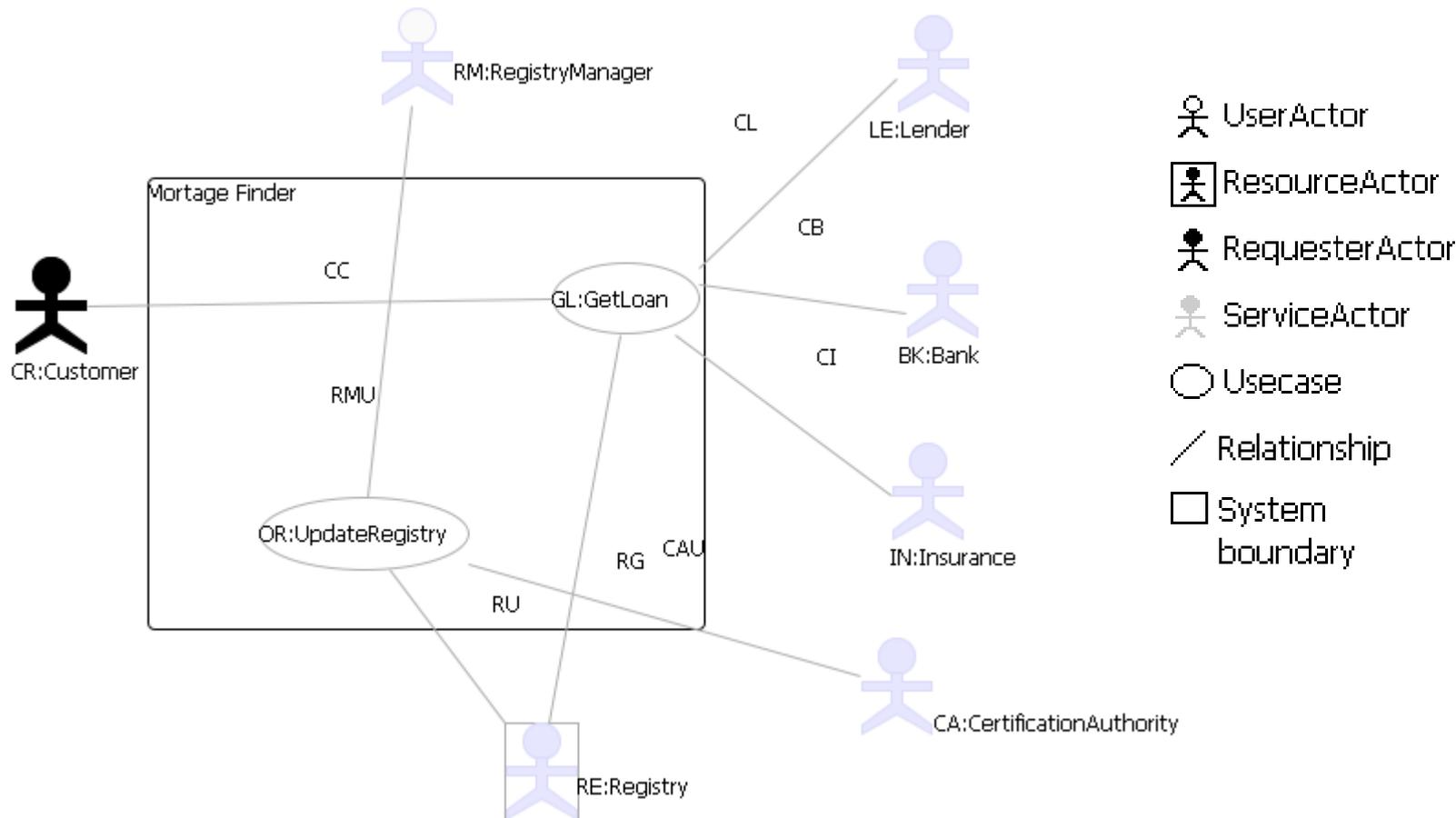
http://www.cs.le.ac.uk/srml/example/usecase_example.zip

- Extract and import all files into src/ folder
 - Select “src” folder, right click on it and select “import” from the context menu, select “General->File System” and browse)
 - The structure of your project should look like this:



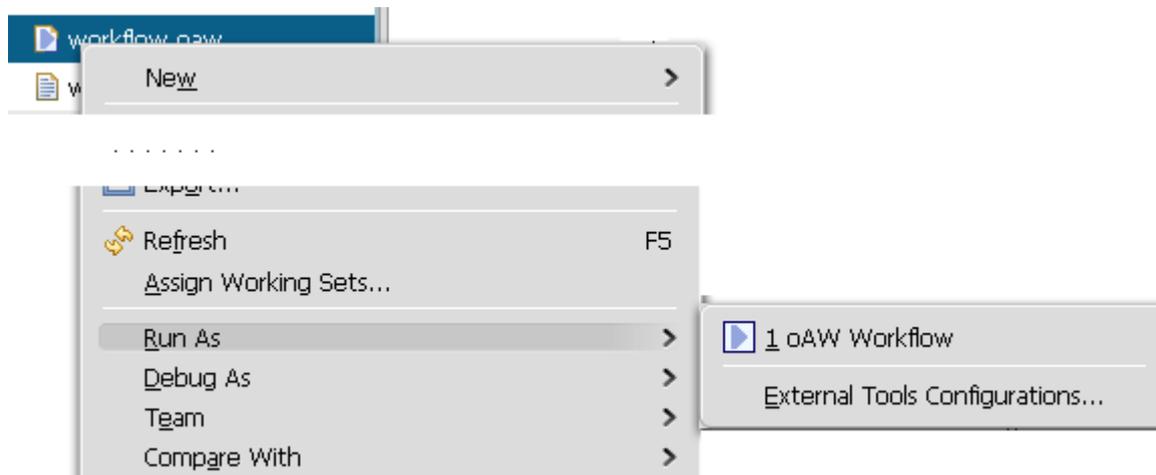
SRML Use Case Diagram

- Open “example.usecase_diagram”, you should be able to the an example of SRML Use Case diagram (Mortgage lending).

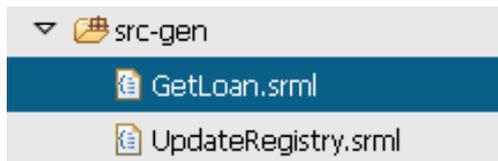


Generate SRML from Use Case diagram

- Right click **workflow.oaw** and click **Run as oAW workflow**



- Generated SRML code can be found in **src-gen**.



Generate SRML from Use Case diagram

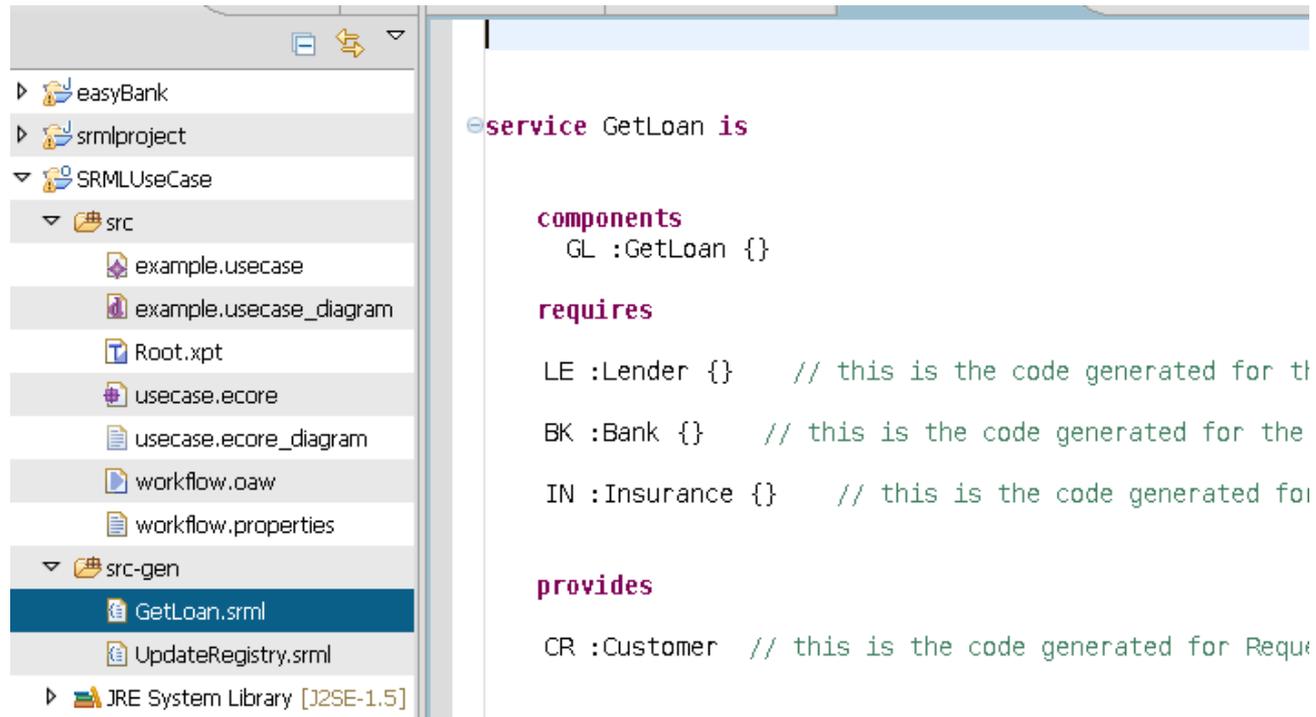


Figure 1 Generated SRML specification

Visualise SRML

- Right clicking on **GenLoan.srml** or **UpdateRegistry.srml** and select **initialise srml_diagram_file** will visualise the SRML document.

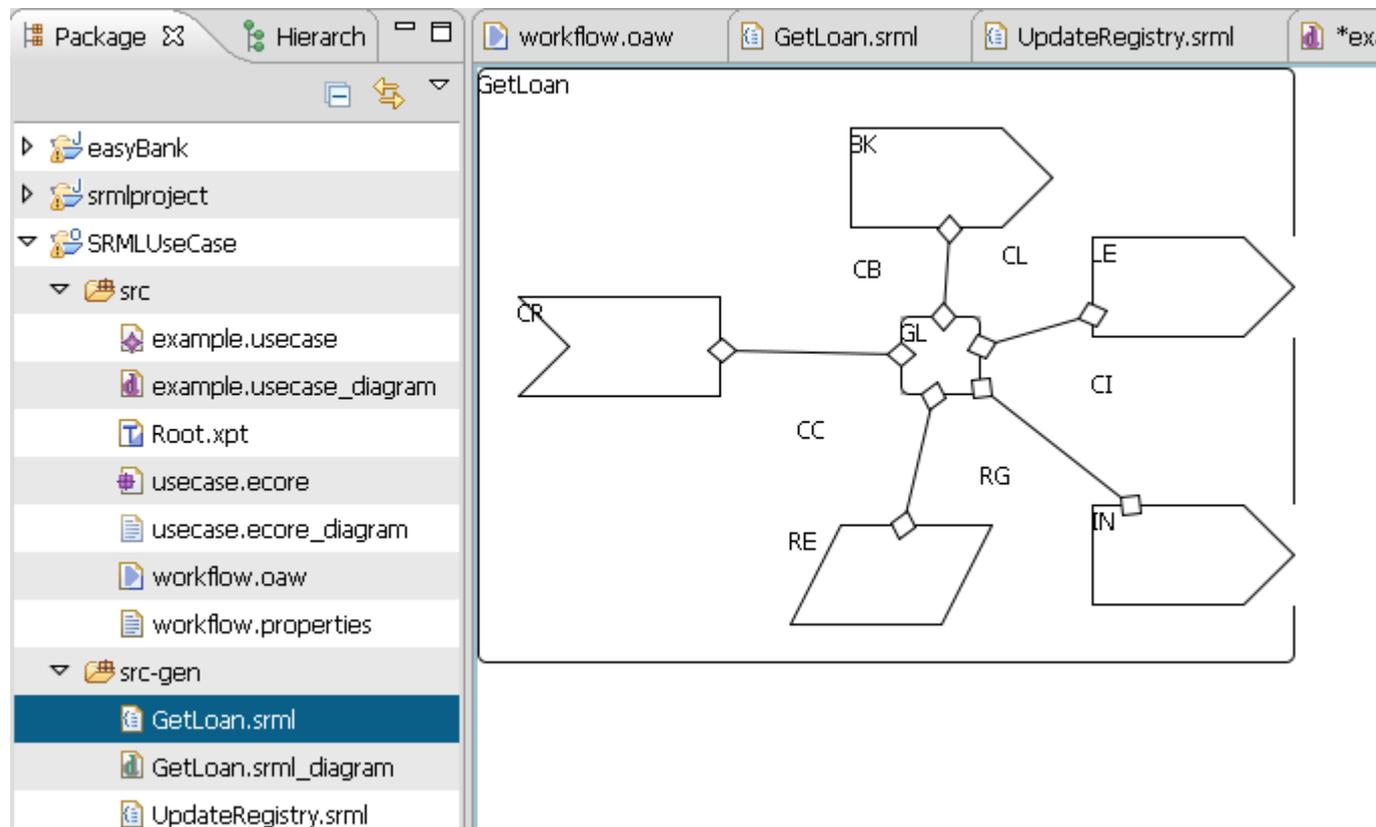
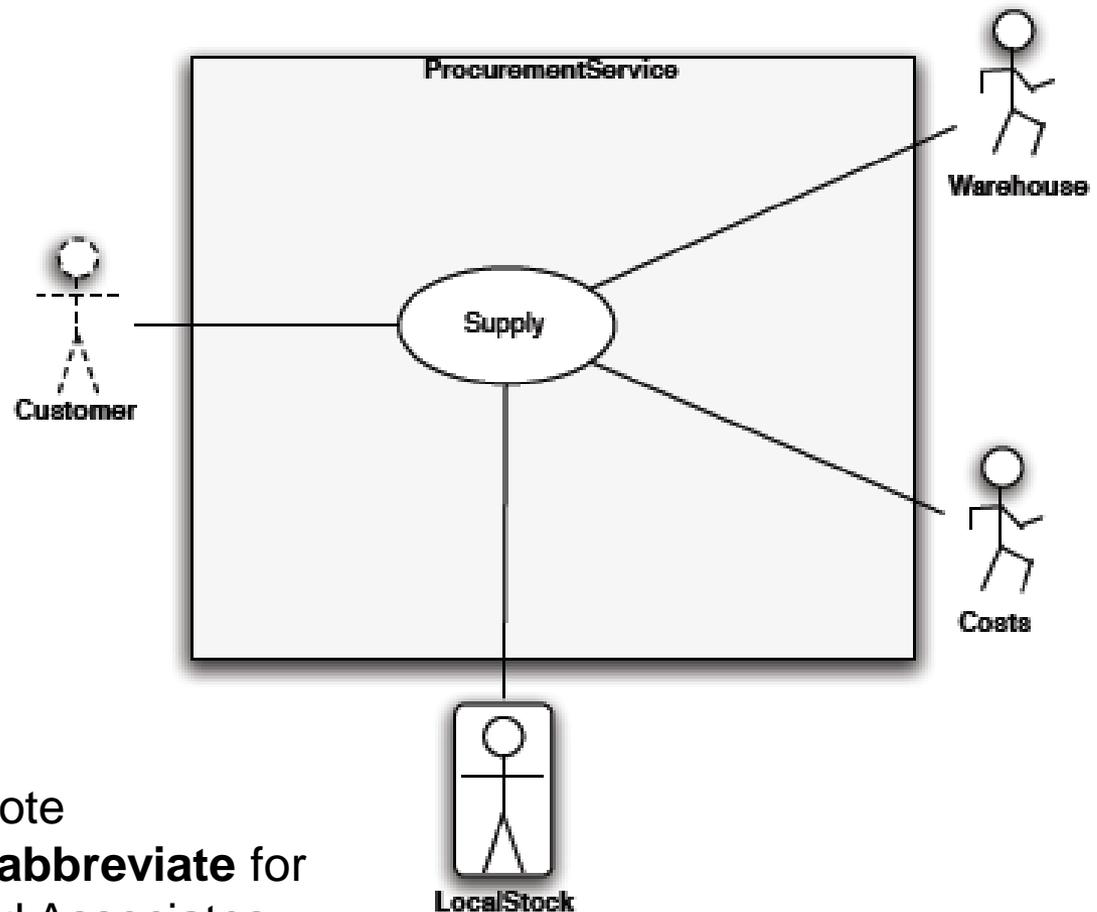


Figure 2 GenLoan.srml

Practice:

Draw an SRML Use Case diagram for Procurement Service we learnt in the Lecture and generate SRML



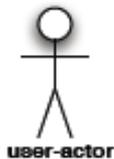
Tips:

- (1) Read the lecture note
- (2) Give **appropriate abbreviate** for Actors, Use Cases and Associates

e.g. (CU:Customer ---- CS--→ SU:Supply)

Practice:

Draw an SRML Use Case diagram for Procurement Service we learnt in the Lecture and generate SRML



- **Primary Actors:** represent entities that initiate the use case and whose goals are fulfilled through the successful completion of the use case
 - **User-actors:** instantiate an activity
 - **Requester-actors:** are service requester that discovery/instantiate a servicecase diagrams: overview of usage requirements for a system to be built
- **Secondary Actors:** represent entities to rely on in order to achieve the underlying business goal
 - **Service-actors:** represent a functionality to be provided on the fly (typically change from instance to instance)
 - **Resource-actors:** are statically bound and persistent (they are the same for all the instances)

Practice:

Draw an SRML Use Case diagram for Procurement Service we learnt in the Lecture and generate SRML

- Preparation:
 - Create a new **openarchitectureWare** project
 - Import **usecase_package** as what we had just done
 - Create a SRML Use Case diagram from “**File->New->Other->Examples->Use Case Diagram**”
 - Open “**workflow.properties**” and change the value of **modelFile** from “**example.usecase**” (line 1) to the model file you created (e.g. **Procurement.usecase**).
- Design Use Case
 - Draw the Use Case diagram
- Code Generation
 - Run OAW workflow to generate SRML code
- SRML Visualization
 - Visualise SRML result.

Practice:

Draw an SRML Use Case diagram for Procurement Service we learnt in the Lecture and generate SRML

