

THE METHOD OF VISUALIZATION PROCESSES OF SUBJECT DOMAIN

The task of processes' visualization is important when you need to specify information about dependencies of business-processes, which are flows in application domain and entities'. Also the visual representation helps us to model as the peculiarities as phases of some process. For correct visualization we should choose the proper business-processes' model. It should be behavior model, witch help us to represent the some streams inside of the system. To achieve this goal the best way is to use UML sequence diagrams.

For the correct visualization it's necessary to choose proper way to store information about dependency of objects. The proposed structure of storing necessary information is the next:

1. Determine the names of the entities, which are situated in application domain.
2. Define dependencies between these objects.
3. Choose the process, which need to be visualized.
4. During the visualization of the processes it's necessary to define which process should be executed between start and initial object and built chain of sub processes.
5. Scale the workspace according to the number of processes.
6. Analyzing the XML files, which are storing information about dependencies of the processes software module can recreate the sequence of actions which are happened between start and end objects.

The proposed structure of *.xml files for storing dependencies between entyities of subject domain is the next:

```
<entity collection="true">
  <name>Test_object </name>
  <constructor>
    <!--define constructor parameters
  </constructor>
  <dependency_object1 >          Entity_name      </dependency
_object1> .....
  <dependency_object_n >          Entity_name      </dependency
_object_n>
</entity>
```

Advantages of such an approach of storage information about business-processes – we create scalable system, one can add (delete) new entities and reconfigure the application domain. Fast tool for visualization business-processes inside of the application domain let us to consider the system processes with necessary levels of details. We can use result of visualization for the raise effectiveness of operations reuse of code or domain knowledge, requirements analysis, for testing and creating actual documentation of software modules.