Edit Module Documentation

December 18, 2017

0.1 Guidelines

The Edit Module implements an API which will allow the user to add or delete a concept or a relationship between two concepts. Throughout the API we create a link between GUI and OWL modules. GUI plug-in may access and display all new concepts .OWL may read information from Edit and Edit may modify OWL.
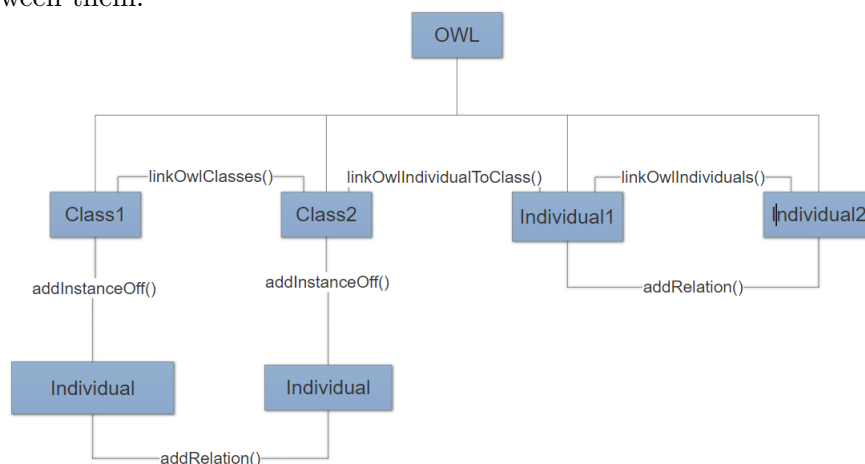
0.2 Technologies used

This module uses the OWL API, a Java API. It is used for implementation in creating, manipulating and serializing OWL ontologies.
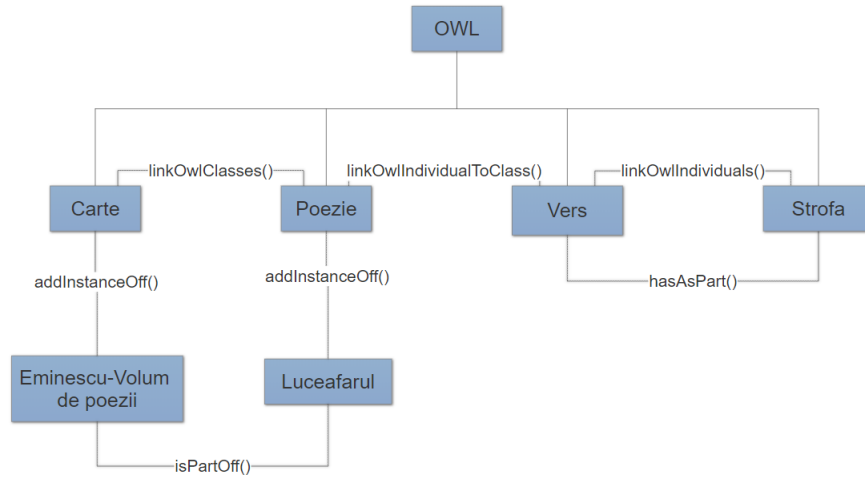
Also Apache Maven is used for resolving the dependencies of the .jars.

0.3 Application architecture

This is how our module will treat concepts or entities and relationships between them:

And this is an example of a basic ontology and how Edit module work on it:

OWL

linkOwlClasses() linkOwlIndividualToClass() linkOwlIndividuals()

Carte   Poezie   Vers   Strofa

addInstanceOff()   addInstanceOff()   hasAsPart()

Eminescu-Volum de poezii   Luceafarul

isPartOff()

0.4 Implementation

This module uses 3 packages(edit, template and util).

1.Edit-with 2 classes-Api throughout we will add concepts, their instances and relationships between them and ApiValueException which will handle the error encountered.

2.Template-with 2 classes-TemplateMenu which helps to identify concepts or instances and TemplateViewer which makes that in the moment when you select a concept or an instance, that instance will be displayed and also his relationships and allows to create new relationships or instances helping in forming of anaphora, noun groups etc.

3.Util-also with 2 classes-Resolver which validates a word if it is a concept, an instance or a relationship between any other concepts or instances and ResolverException which handle errors that may occur if a relationship between two concepts is not found.