

WP4 Current Status

GF Eclipse Plugin: Ontology Grammar Wizard

MOLTO 5th Project Meeting
20th September, Utrecht
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Ontotext's team - updates

- Borislav Popov (borislav.popov@ontotext.com)
 - Site Leader
- Dr. Georgi Georgiev (georgi.georgiev@ontotext.com)
 - Manager/Technologies Expert
- Laura Tolosi, PhD candidate (laura.tolosi@ontotext.com)
 - Currently contributing to WP-7
- Maria Mateva (maria.mateva@ontotext.com)
 - Currently contributing to WP-7
- Dr. Mariana Damova (mariana.damova@ontotext.com)
 - Currently contributing to WP-8
- Stefan Enev (stefan.enev@ontotext.com)
 - Integration Expert

WP4 Deliverables

- D4.1 Knowledge Representation Infrastructure
 - Was approved
- D4.2 Data Models, Alignment Methodology, Tools and Documentation
 - Pending final review
- D4.3 Grammar-Ontology Interoperability
 - Pending final review

Reviewers notes

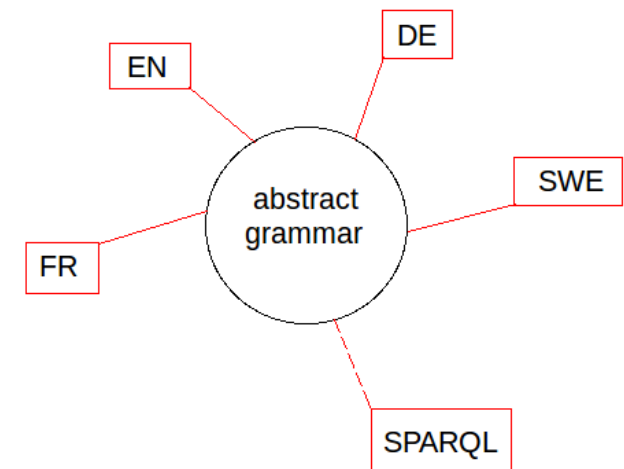
- D4.2 Data Models, Alignment Methodology, Tools and Documentation
 - *Why wasn't UHEL more involved?*
 - D4.3 Grammar-Ontology Interoperability
 - *Why wasn't UGOT more involved?*
 - *To what extent can automation be achieved?*
- Discussion.*

Automation Challenges

- D4.3 Grammar-Ontology Interoperability
 - Automation insures faster adaptations to new use cases and applications
 - We would like to encourage further discussions with GF experts in order to find better solutions.
- Fields of improvements of the automation
 - GF abstract representation to SPARQL
 - RDF(SPARQL results) to NL
- Query Language

Concrete tasks on WP4

- Fixing minor problems on the Molto-KRI prototype (<http://molto.ontotext.com>)
 - e.g. “Missing error message for wrong NL queries”
- Improvements to **Grammar Query Builder Helper** (GQBH) - implementation of direct mapping from GF Abstract Grammar to SPARQL syntax.



- **More involvement of UGOT**
- Updates of GF-Eclipse Plugin Ontology Grammar Wizard

GF-Eclipse Plugin Ontology Grammar Wizard(1)

- Extension of the GF-Eclipse Plugin
- Based on **GQBH**
- Leads a user to create abstract, concrete(English) and concrete SPARQL gf grammar, based on user-friendly templates that are filled in with repository entities by the user
- The wizard connects to a SPARQL endpoint and uses the ontology provided by it.
- Then the user has to provide a specific templates file.
- Next, pages for filling the templates are available.
- Finally, the user is prompted to export the grammars created from the templates.
- The exported grammars can then be edited by the GF Eclipse plugin.

GF-Eclipse Plugin Ontology Grammar Wizard(2)

- User selects a SPARQL endpoint and a specific template

New Ontology Grammar

Select a SPARQL endpoint URL and a grammar templates file

Repository URL:

Username:

Password:

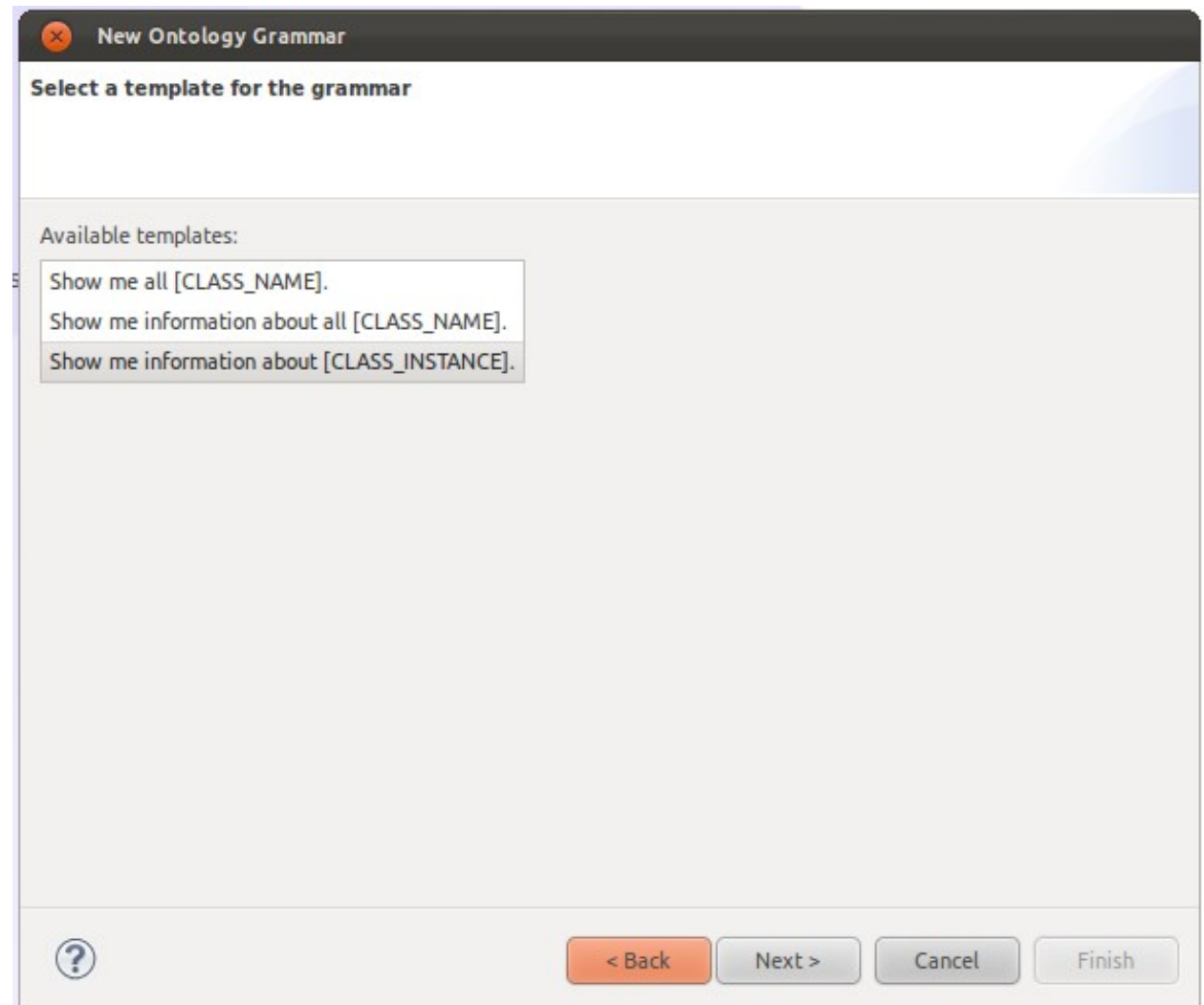
Successfully connected.

Templates file:

The template is valid.

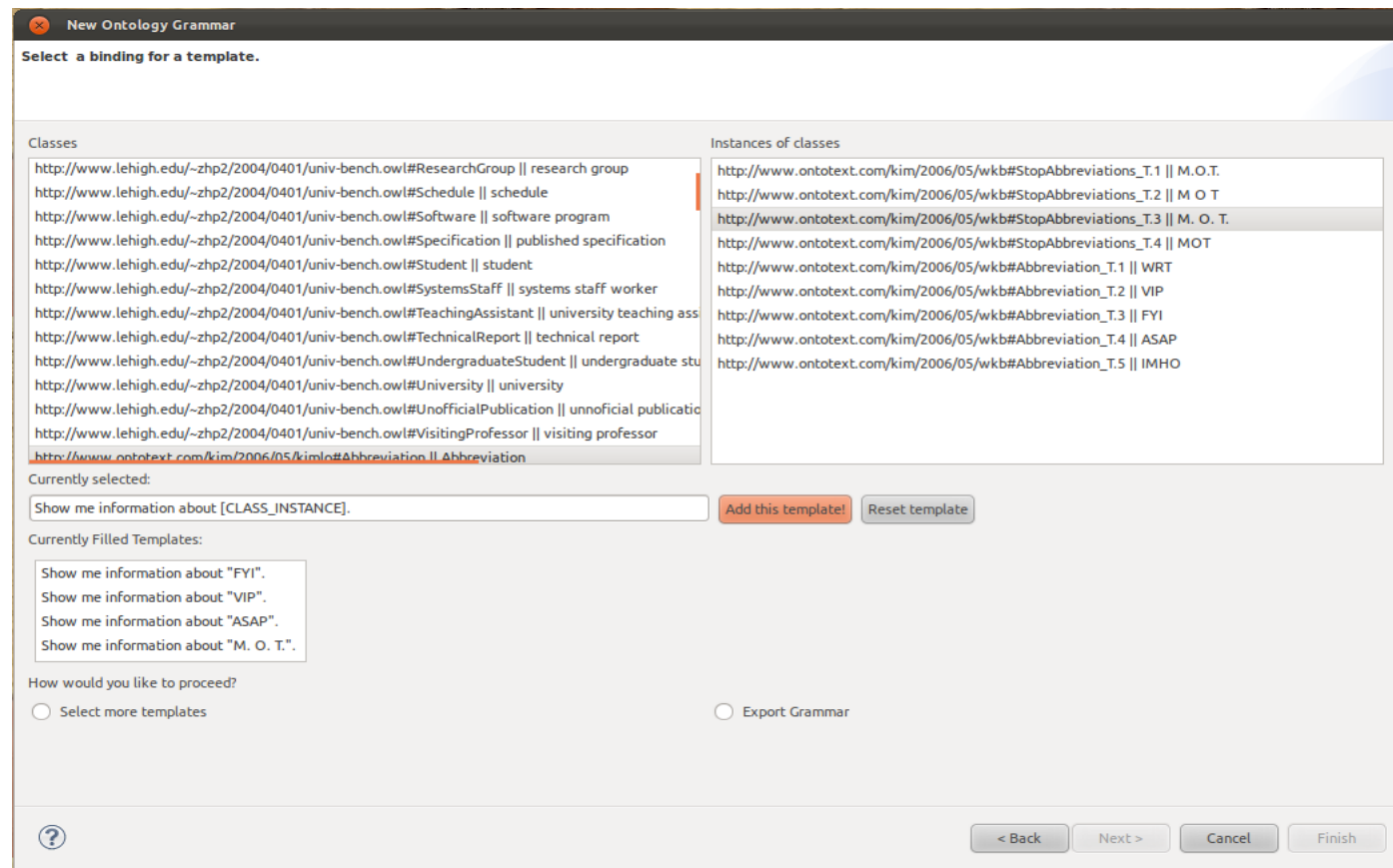
GF-Eclipse Plugin Ontology Grammar Wizard(3)

- User selects a pattern from the template



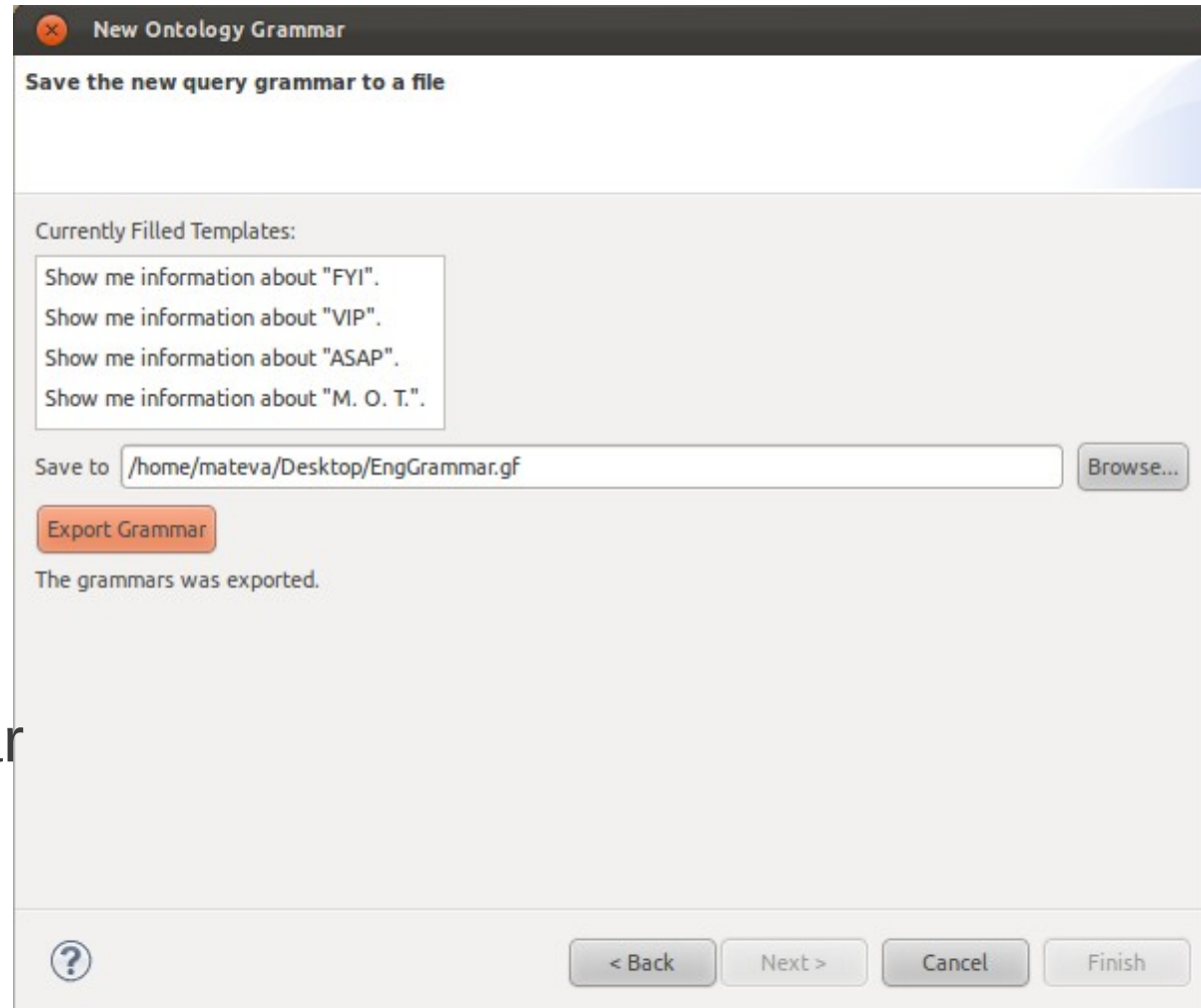
GF-Eclipse Plugin Ontology Grammar Wizard(4)

- User selects bindings to complete the grammar needed.



GF-Eclipse Plugin Ontology Grammar Wizard(5)

- User completes the wizard by pointing where the grammars can be stored
- The result are three GF grammars:
 - Abstract Grammar
 - Concrete English Grammar
 - Concrete SPARQL Grammar



Questions

Thank you for your attention!