

@Web Constraint Checking: Functional Specification

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December 2015

Abstract

In this document I summarize the changes proposed to the @Web platform in order to implement automatic constraint checking using SPARQL queries.

1 Ontology

Add new OWL class *Constraint* to core ontology.

Add *hasForSPARQLQuery* object property to *Constraint* class, which has a string literal as its range, where the actual SPARQL query will be stored.

Add scope note (via the *hasForScopeNote* property) to the *Constraint* class pointing to a string literal with the textual guideline.

Add *hasForConstraint* object property to *Relation* OWL class, with *Constraint* class for range.

1.1 Biorefinery domain ontology

Pending.

2 Ontology uploading via CSV files

Pending.

3 User interface

Pending.

4 Time estimates

Pending.