# Requirement Report - Details - simplified

Version •



05/08/2020 14:47:47 Eugeniu Costetchi meaningfy.ws



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# 1 sparql-ruvi

Package in package "

### 1.1 use cases

Package in package 'sparql-ruvi'

## 1.1.1 scenarios diagram

Use Case diagram in package 'use cases'

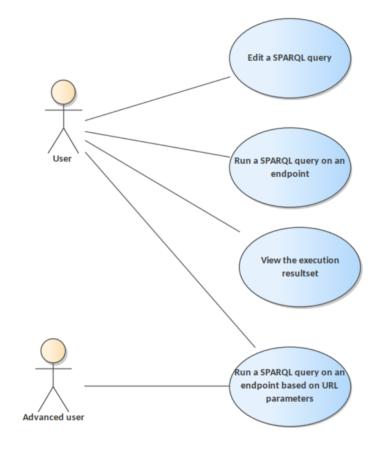


Figure 1: scenarios

## 1.1.1.1 Edit a SPARQL query

UseCase in package 'use cases'

As a User I can edit the SPARQL query in an efficient manner so that I can execute it.

SCENARIOS

#### **SCENARIOS**

Basic Path. service access

Given the service is available at URL (service URL)

When the service is accessed

Then a page with a SPARQL editor is d played

And the editor is pre-filled with the default queryText and the endpoint from the deployment configuration

Basic Path. user edits

Given a page with a SPARQL editor
When user edits he query tex t
Then the query is validated
And hints with keyword or variable are provide on the fly

## 1.1.1.2 Run a SPARQL query on an endpoint

UseCase in package 'use cases'

As a user I can send a SPARQL query to a SPARQL endpoint.

#### **SCENARIOS**

🛱 Basic Path. Basic Path

Given a valid SPARQL query in the editor When the user presses the run button The query is sent to the SPARQL endpoint And the response is received and displayed accordingly

#### 1.1.1.3 View the execution resultset

UseCase in package 'use cases'

As a user I can view the resultset in an interactive manner to accomplish my business goal.

#### **SCENARIOS**

🛱 Basic Path. Basic Path

Given an execution response from the SPARQL endpoint

And the response is a resultset

When the response is rendered

Then an interactive table view is displayed

And it is possible to see the resultset in original format

And it is possible to download the reseultset

**Exception**. Error

Given an execution response from the SPARQL endpoint

And the response is an error

When the response is rendered

Then a detailed description of the error is displayed

#### Run a SPARQL query on an endpoint based on URL parameters 1.1.1.4

UseCase in package 'use cases'

As a User or API client I can run a SPARQL query on a specified endpoint so that User can view the resultset.

#### **SCENARIOS**

🛱 Basic Path. Basic Path

Given the service is available at a URL (service URL)

And the SPARQL query and the SPARQL endpoint are encoded as parameters on the service URL (service parameters)

When the service URL + service parameters is accessed

Then a page with a SPARQL editor and query execution results is displayed

And the editor is pre-filled with the queryText and the endpoint from the parameters

And the response resultset is rendered displayed

The URL parameters:

endpoint - the SPARQL endpoint URL [mandatory]

method - GET/POST, GET default [optional]

queryText - the text of the SPARQL query in URL-encoded form [mandatory this or queryResURL]

queryResURL - the URL pointing to a text file containing the queryText [mandatory this or queryText]

## 1.2 interactions

Package in package 'sparql-ruvi'

# 1.2.1 query sparql endpoint diagram

Interaction diagram in package 'interactions'

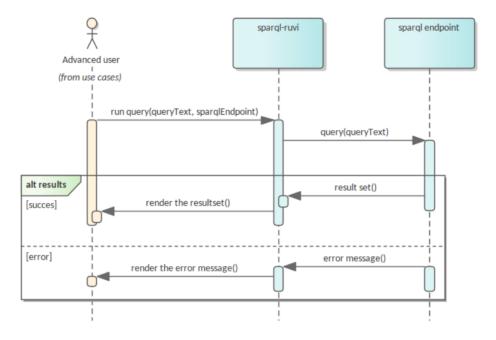


Figure 2: query sparql endpoint