Triple

Transforming Research through Innovative Practices for Linked Interdisciplinary Exploration

Advancing Open Scholarship

[31 MARCH 2021]

D6.6 – APIs DEVELOPMENT - RP2

Draft
PUBLIC

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APIs Development - RP2

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Version	Created/Modifier	Comments
0.0	Laurent Capelli, CNRS (HN)	Writing of the content
0.1	Emilie Blotiere, CNRS (HN)	Formatting
0.2	Francesca Di Donato, CNR; Carsten Thiel, CESSDA	Review
1.00	Laurent Capelli, CNRS (HN); Suzanne Dumouchel, CNRS (HN), Emilie Blotière, CNRS (HN)	Answers to reviewers

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Acronyms

API	Application Programming Interface
RI	Research Infrastructure
REST API	An API which respects the REST architecture constraints (Representational State Transfer).

Publishable Summary

The GOTRIPLE API of the TRIPLE project allows anyone to search through the enriched TRIPLE objects: documents, projects and researcher profiles, i.e. the three main categories of data harvested by the platform.

It also gives access to specific objects by their identifiers. The content is indexed using the Elasticsearch engine[1], which is an open-source software that allows simple queries to be built in order to search and retrieve the content required.

Our publicly available REST API exposes the metadata that are enriched and indexed by the TRIPLE Core Pipeline.

This deliverable is the first version[2] of the GOTRIPLE API documentation available to technical users in swagger format at the URL https://api-alpha.gotriple.eu/doc.

1. ACCESS

The API is available on https://api-alpha.gotriple.eu

2. SCHEMA

The API response uses the same schema as the Elasticsearch mapping listed in Annex 1.

3. AUTHENTICATION

GOTRIPLE API is free to use.

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[1] https://www.elastic.co

[2] A second version is planned for September 2022 and will be the subject of the deliverable 6.3 "APIs development-RP3"

4. ENDPOINTS

TABLE 1 **GET /authors**

Description	Provides the full search on author index up to 50 records per page (30 by default).
Accepts	· q : The text to search for · page : The page number · size : The number of items per page · aggs : The facets to construct
Returns	An array of results. Three formats are available, depending on Accept HTTP Header.
Example	**https://api-alpha.gotriple.eu/authors?page=1&size=30&q=bourdieu**

TABLE 2 **GET /authors/{id}**

Description	Get an author resource
Accepts	A valid author Id
Returns	Author Object
Example	

TABLE 3 **GET /documents**

Description	Provides the full search on document index up to 50 records per page (30 by default).
Accepts	· q : The text to search for · page : The page number · size : The number of items per page · aggs : The facets to construct (available for topic, additional_type, author, knows_about, spatial_coverage, project)
Returns	An array of results. Three formats are available, depending on Accept HTTP Header.

Example	https://api-alpha.gotriple.eu/documents?page=1&size=30&aggs=topic,size=3,sort=count,order=desc&q=feminicide

Table 4 **GET /documents/{id}**

Description	Get a document resource
Accepts	A valid document Id
Returns	Document Object
Example	https://api-alpha.gotriple.eu/documents/10670/1.poksvs

Table 5 **GET /projects**

Description	Provides the full search on project index up to 50 records per page (30 by default).
Accepts	· q : The text to search for · page : The page number · size : The number of items per page · aggs : The facets to construct (available for topic, organization, knows_about)
Returns	An array of results. Three formats are available, depending on Accept HTTP Header.
Example	https://api-alpha.gotriple.eu/projects?page=5&size=5&q=h2020

Table 6 **GET /projects/{id}**

Description	Get a project resource
Accepts	A valid project Id
Returns	Project Object
Example	

Annex 1 – Elasticsearch mapping

Elasticsearch mapping[3] of the TRIPLE objects are related to the TRIPLE data model presented in the WP2 D2.1 (link?)
In the following table, we provide the available fields linked to the TRIPLE object metadatas (document, project, profile). We also supply in the *structures* column the field data type[4] of each property.
Some textual properties are copied into the full_text field to be globally indexed and accessible in a simple search.

Document

Metadata	Properties	Structures		Fulltext
Abstract	abstract			x
		lang	keyword	
		text	text	
		detected_lang	boolean	
		translated	boolean	
Type	additional_type			x
		id	keyword	
		label		
			lang — keyword	
			text — text	

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[3] https://www.elastic.co/guide/en/elasticsearch/reference/current/mapping.html
[4] https://www.elastic.co/guide/en/elasticsearch/reference/current/mapping-types.html

Author	author		x

		family_name text
		given_name text
		id keyword
		identifier
		    idhal keyword
		    idref keyword
		    isni keyword
		    orcid keyword	

	contributor	text	x
Date	date_published	text	
Title	headline		x
		lang keyword **text** text **detected_lang** boolean **translated** boolean	
ID	id	keyword	x
Other IDs	identifier	keyword	x
Full Text Language	in_language	keyword	
Source	is_based_on_url	keyword	

Keyword	keywords		x
		lang keyword **text** text	
TRIPLE concept	knows_about		x
		id keyword **label** lang keyword text text	
Licence	licence	keyword	x
URL	main_entity_of_page	keyword	x
Source	mentions	keyword	x
Link to project	project	keyword	
Primary source	provider		x
		id keyword **label** text	
Publisher	publisher	keyword	x
Spatial location	spatial_coverage		x
		id keyword **label** lang keyword	

		text text	
Temporal period	temporal_coverage	**label** text	x

Category	topic	**id** keyword
		confidence float
		label
		    lang keyword
		    text text
			x

URL of full text	url	keyword	x

Project

Metadata	Properties	Structures	Fulltext
Acronym	alternate_name	**lang** keyword **text** text	x

Description	description			x
		lang keyword		
		text text		
		detected_lang boolean		
		translated boolean		
End date	end_date	date		
Project ID	id	keyword		
Other IDs	identifier	keyword		x
Keyword	keywords			x
		lang keyword		
		text text		
Link to author(s)	member	keyword		x
Name	name			x
		lang keyword		
		text text		
		detected_lang boolean		
		translated boolean		
Organization	organization	keyword		x
Funder	sponsor	keyword		x
Start date	start_date	date		
Link to document(s)	subject_of	keyword		

Category	topic		x

		id keyword
		confidence float
		label
		         lang keyword
		         text text		

Page Web URL	url	keyword	x

Profiles

Metadata	Properties	Structures	Fulltext
Link to document(s)	author_of	keyword	
Last Name	family_name	text	x
Firstname	given_name	text	x
ID	id	keyword	x
Other IDs	identifier		x
		idhal keyword **idref** keyword **isni** keyword **orcid** keyword	
Link to project(s)	member_of	keyword	

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