

RAG Assistant API and Chat with Documents API



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As we know, GeneXus Enterprise AI provides a set of several APIs to interact with the defined assistants.

In this context, we are now going to learn about the API to interact with RAG Assistants.

RAG Assistant API

Generic variables

Variable	Description
\$BASE_URL	The base URL for your GeneXus Enterprise AI installation.
\$SAIA_APITOKEN	An API token generated for each project.

Available methods

Method	Path	Description
GET	/profiles	Get all Project profiles
GET	/profile/{name}	Get a specific profile
POST	/profile	Create a new profile
PUT	/profile/{name}	Update a profile
DELETE	/profile/{name}	Delete a profile
GET	/profile/{name}/documents	Get documents for a profile
GET	/profile/{name}/document/{id}	Retrieve Document information
POST	/profile/{name}/document	Upload a Document
DELETE	/profile/{name}/document/{id}	Delete a Document
POST	/execute	Execute a search query

To use this API, we must consider the generic variables we already know:

Base_URL and SAIAAPiToken

In addition, a GeneXus Enterprise AI API token related to the scope of the organization is also required.

The methods available for this API are as follows:

First, as an example, we will test the GET method that returns the list of RAG assistants defined in a project.

RAG Assistant API: GET profiles

cURL Sample

```
curl -X GET "$BASE_URL/v1/search/profiles" \  
-H "Authorization: Bearer $SAIA_PROJECT_APITOKEN" \  
-H "Accept: application/json"
```

<https://api.qa.saia.ai/v1/search/profiles>

The corresponding cURL sample indicates that the URL must have the following format:

Therefore, in our context the URL will be as follows:

<https://api.qa.saia.ai/v1/search/profiles>

We can see that we need a Project Api Token.

Postman API Platform

The top screenshot shows the Postman interface for a GET request to `https://api.qa.saia.ai/v1/search/profiles`. The 'Authorization' tab is active, showing 'Bearer Token' selected. A warning message states: 'Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. Learn more about variables.' The 'Token' field is empty.

The bottom screenshot shows the same request after execution. The 'Body' tab is active, displaying a JSON response in 'Pretty' format. The response includes project details and search profiles.

```
1 {
2   "projectActive": true,
3   "projectDescription": "Project for the GeneXus Enterprise AI Course",
4   "projectId": "609a8dec-53c3-4d9f-bd10-bd1ff643cbee",
5   "projectName": "TrainingProject",
6   "projectStatus": 0,
7   "searchProfiles": [
8     {
9       "description": "This assistant allows you to chat with GXTraining documents",
10      "name": "ChatWithGXTraining"
11    },
12    {
13      "description": "Default",
14      "name": "Default"
15    }
16  ]
17 }
```

We already know the process, so from Postman, we define the GET.

And from the platform we copy the default API token. We go back to Postman and define the authorization.

We click on Send and get the response.

In our TrainingProject, the RAG Assistant named ChatWithGXTraining is defined.

RAG Assistant API: GET documents for a profile

cURL Sample

```
curl -X GET "$BASE_URL/v1/search/profile/{name}/documents" \  
-H "Authorization: Bearer $SAIA_PROJECT_APITOKEN" \  
-H "accept: application/json" \  
# Use the optional skip and count parameters \  
$BASE_URL/v1/search/profile/{name}/documents?skip={skip}&count={count}
```

<https://api.qa.saia.ai/v1/search/profile/ChatWithGXTraining/documents>

We will now ask for the list of documents that feeds this assistant.

For that, we are going to use the GET method that now requires the name of the assistant as parameter.

In the sample, we see that the URL has this format:

So our URL will be as follows:

<https://api.qa.saia.ai/v1/search/profile/ChatWithGXTraining/documents>

Once again, we need a Project Api Token.

Chat with Documents API

Generic variables

Variable	Description
\$BASE_URL	The base URL for your GeneXus Enterprise AI installation.
\$SAIA_APITOKEN	An API token generated for each project.

Available method

Method	Path	Description
POST	/execute	Execute a search query

Good. We are now going to make a simple query to this assistant.

For that, we are going to use the API to chat with documents. This API allows making searches or queries on the indexed content.

Its method is POST:

Chat with Documents API: POST execute a search query

Sample cURL Request

```
# Simple case
curl -X POST
-H "Content-Type: application/json"
-H "Authorization: $SAIA_PROJECT_API_TOKEN"
-d '{
  "profile": "Default",
  "question": "Again, explain to me what is SAIA?",
  "variables": [
    {"key": "type", "value": "Doc"}
  ],
  "filters": [
    {"key": "extension", "operator": "$ne", "value": "pdf"},
    {"key": "name", "operator": "$eq", "value": "sample"},
    {"key": "year", "operator": "$gte", "value": 2000}
  ]
}' $BASE_URL/v1/search/execute
```

Parameter	Description
\$eq	Equal (default)
\$ne	Not Equal
\$gt	Greater than
\$gte	Greater than or equal
\$lt	Less than
\$lte	Less than or equal

Filter	Description
id	Document GUID returned during insertion
name	Original document name
extension	Original document extension
source	Document source, in general, a URL

<https://api.qa.saia.ai/v1/search/execute>

If we query the cURL sample, we see that the URL will be as follows:
<https://api.qa.saia.ai/v1/search/execute>

We also need a Project Api Token.

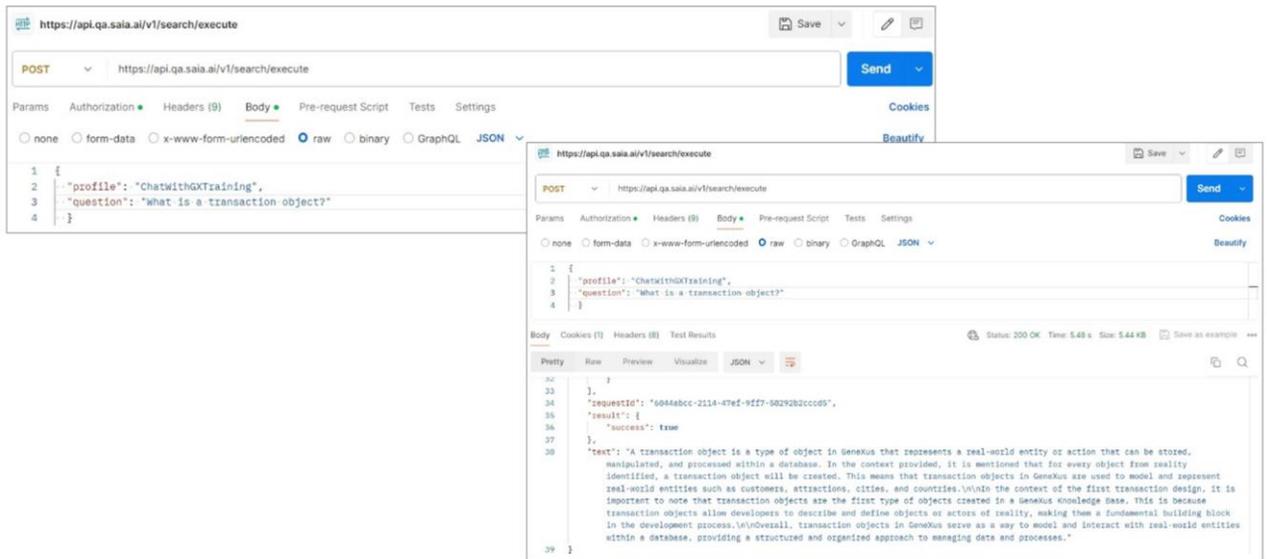
So again in Postman we define the POST and the corresponding authorization.

Let's see now the body of the query.

We must indicate the profile – that is, the assistant we are going to query – and declare the question.

Optionally, we can add parameters and filters to the question, as needed.

Postman API Platform



Good. We then go to the Body, Raw, JSON tab and declare the question.

Let's define a simple query.

We indicate that we are going to query our RAG Assistant ChatWithGXTraining, and the question is "What is a Transaction object?"

To see the answer, we click on Send. We see the list of queried documents, and the final text of the answer.

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