Timbr REST API

Any call for the API **requires** the following headers in the REQUEST header

- Content-Type = The content type of the request must be application/json
- x-api-key = The token value for a user received from the Timbr-platform

How to get a token for a user from the Timbr platform

For the following example, we use the following assumption: The endpoint https://timbr-sample.company.com as if the **Timbr-Platform** is running and configured

1. Login to the timbr-plaform endpoint (i.e. - https://timbr-sample.company.com)
2. Access the endpoint - https://timbr-sample.company.com/timbr/get_timbr_user_token/
3. Save the value of the token to be used as the x-api-key of the requests.

Requirements for REST API calls

The following headers are required in any API call request

Header Key	Header Value	Sample	Description
Content-Type	application/json	Content-Type: application/json	Posts a query and returns results in JSON form
x-api-key	***************	x-api-key: ***************	The header value is the token value for a user from the Timbr-Platform

REST API Calls and Usage

Below is the usage of the current API implementation:

Endpoint	Method	Body	Description
/timbr/beta/api/get_ontologies/	GET		Posts a query and returns results in JSON form
/timbr/beta/api/query/	POST	{ ontology_name: <ontology_name >, query: <SQL query to run> }	Posts a query and returns results in JSON form
/timbr/beta/api/get_ontology/<ontology_name>	POST		Gets the ontology details for a certain ontology

Examples for calling the REST API endpoints

The following was tested using curl with MINGW64 on Windows 11

Requesting the get_ontologies endpoint

Request:

```
curl -X 'GET' \
 'https://timbr-sample.company.com/timbr/beta/api/get_ontologies/' \
 -H 'Content-Type: application/json' \
 -H 'x-api-key: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx'
```

Response:

- Response code: 200
- Response body:

```
{
 "data": ["timbr_supply_chain", "timbr_user_segmentation", ...],
 "status": "success"
}
```

Requesting the query endpoint

Request:

```
curl -X 'POST' \
 'https://staging.timbr.ai/timbr/beta/api/query/' \
 -H 'x-api-key: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx' \
 -H 'Content-Type: application/json' \
 -d '{
 "query": "select * from timbr.person limit 5",
 "ontology_name": "timbr_supply_chain"
}'
```

Response:

- Response code: 200
- Response body:

```
{
 "data": [{
  "entity_id": "p:2",
  "entity_type": "person",
  ...
 },
 ...],
 "status": "success"
}
```

Requesting the get_ontology endpoint

Assuming the <ontology_name> is timbr_supply_chain
Request:

```
curl -X 'GET' \
 'https://timbr-sample.company.com/timbr/beta/api/get_ontology/timbr_supply_chain' \
 -H 'Content-Type: application/json' \
 -H 'x-api-key: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx'
```

Response:

- Response code: 200
- Response body:

```
{
 "data": {
  "datasources": [{ ... }, ...],
  "ontology": [ { ... }, ...],
  "properties": { ... },
  "quote": "`",
  "version": "52b2f455-bd0f-f34a-a9cc-9c799b8b9e6d",
  "views": { ... },
 },
 "status": "success"
}
```