

Documentation on interaction with the REST API

API has 3 endpoints:

1. GET: /information-in-db
2. GET: /calculate
3. POST: /information-in-db

----- 1. GET: /information-in-db -----

Returns a list of all cities in the database

<i>Response code</i>	<i>Reason</i>
200	
500	Error on the DB side

----- 2. GET: /calculate -----

Returns the distance between cities calculated using one of the methods or both

Parameter	Value type	Description
calculation_type	String	Type of operation performed Maybe "Crowflight" OR "Distance Matrix" OR "All"
from_city	String	Name of the city from where
to_city	String	Name of the city to where

<i>Response code</i>	<i>Reason</i>
200	
400	Insufficient input parameters OR Not acceptable calculation type
404	The city does not exist
500	Couldn't find the route

----- 3. POST: /information-in-db -----

Saves entities in the database, and if they already exist, updates the values

Parameter	Value type	Description
xml_file	MultipartFile	A file with an XML structure that contains City AND Distance entities in any number and order. For example: <City> <name>Yralsk</name> <latitude>75,755831B°</latitude> <longitude>-15,755831B°</longitude> </City> <Distance> <distance>1</distance> <fromCity>Samara</fromCity> <toCity>Moscow</toCity> </Distance>

<i>Response code</i>	<i>Reason</i>
200	
206	Partial data loading (returns the value of how much is recognized and how much is loaded). The reason may be errors in the XML file entry
400	Insufficient input parameters
500	Input Output Exception