ECHOES - Knowledge Base RESTful API

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| **Endpoint** | **Method** | **Description** |
| datafile/insert | POST | Imports an RDF file on given triplestore under certain named graph which is automatically generated (multipart/form-data) |
| Parameters:   * RDF File – The triples file to be validated and located in the triplestore - multipart/form-data; * The content type of the file to be uploaded - Text * Triplestore ID - Text;   Response: A JSON object holding   * A succeed/failed Boolean value; * The automatically generated named graph used; * The appropriate message. | | |
| datafile/update | POST | Replaces RDF data of existing named graph |
| Parameters:   * RDF File – The triples file to be validated and located in the triplestore - File * The content type of the file to be uploaded - Text * Triplestore ID - Text; * Named graph - Text;   Response: A JSON object holding   * A succeed/failed Boolean value; * The appropriate message. | | |
| datafile/download | GET | Downloads the contents of specific named graph (i.e. the contents of an imported file) |
| Parameters:   * The content type of the output file - Text; * The content disposition – Text * Triplestore ID - Text; * The named graph - Text;   Response: The raw binary (or text) content of the file itself. | | |
| digitaltwin/download | GET | Downloads the contents of specific digital twin (i.e. the contents of an imported file) as file. |
| Parameters:   * The content type of the output file - Text; * The content disposition – Text; * Triplestore ID – Text; * The digital twin ID - Text;   Response: The raw binary (or text) content of the file itself. | | |
| triplestore/query/download | GET | Downloads the contents from specific query (i.e. the contents of an imported file) as file. |
| Parameters:   * The content type of the output file - Text; * The content disposition – Text * Triple SPARQL query - Text;   Response: The raw binary (or text) content of the file itself. | | |
| datafile/text | GET | Returns the text contents of specific named graph (i.e. the contents of an imported file) |
| Parameters:   * Triplestore ID – Text; * The named graph - Text;   Response: The text content of the named graph. | | |
| digitaltwin/text | GET | Returns the text contents of specific digital twin (i.e. the contents of an imported file) |
| Parameters:   * Triplestore ID - Text; * The digital twin ID - Text;   Response: The text content of the digital twin. | | |
| triplestore/query/text | GET | Returns the text contents after applying specific query (i.e. the contents of an imported file) |
| Parameters:   * The SPARQL query - Text;   Response: The text content of the query’s results. | | |
| datafile/delete | DELETE | Delete a named graph (i.e. the contents of an imported file) from specific triplestore. |
| Parameters:   * Triplestore ID - Text; * Named graph - Text;   Response: A JSON object holding   * A succeed/failed Boolean value; * The appropriate message. | | |
| triplestore/save | POST | Inserts or updates metadata of a triplestore in the database. |
| Parameters:   * URL – Text; * Name – Text; * Description – Text;   Response: A JSON object holding   * A succeed/failed Boolean value;   The appropriate message. | | |
| triplestore/read | GET | Returns all metadata of a triplestore. |
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| triplestore/search | POST | Searches for triplestore based on filters. |
| Parameters:   * Creator – Text; * Triple store name; * Creation Date;   Response: A JSON object holding   * A succeed/failed Boolean value;   The appropriate message. | | |
| Digitaltwin/search | POST | Searches for digital twins |
| Parameters:   * Digital Twin’s name – Text; * Creator – Text; * Creation Date;   Response: A JSON object holding   * A succeed/failed Boolean value;   The appropriate message. | | |

This RESTful API is under development and its most recent version will be located in the ECHOES github repository (<https://github.com/vkrits/KB-REST-API>)