**MidTerm API Specification Doc**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Description** |
| 1.0 | 4-23-2019 | Abraham Jimenez | Initial draft |
|  |  |  |  |

## 

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## 

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## 

## 

## 

Methods

## main

Retrieve all the features and the parameters for each one of the features

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | midterm/main/ |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
|  |  |  |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Response will be an object containing the list of features. Each item array has the following structure.**  {  "Description": "Identify all the different descriptors and quantify the number of times they appear. The List will be sorted Descending. Available only in English",  "End Point": "/midterm/Descriptor",  "Parameters": {  "1. type": "method used for submitting the file: 'url' or 'str' - Mandatory",  "2. url": "URL from where to get the file - Optional",  "3. text": "Text to be processed if URL is not submited - Optional"  }  } |
| 50X | Sever Errors |

## Descriptors

Look in the text all the different descriptors and quantify the number of times they appear. The List will be sorted Descending. Available only in English.

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | midterm/Descriptor/ |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| GET  GET  GET | type  url  text | string  string  string |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Response will be an object containing the list of descriptors and the number of times it appears on the text. Each item in the response array has the following structure.**  {"columns":["Descriptor","Occurences"],"index":[0,1],"data":[["blue",1],["beautiful",1]]} |
| 400 | {"error": "For other than English the only options available are Translate/Identify language"  } |
| 400 | {"error":"Invalid URL"} |
| 400 | {"error":"URL not informed"} |
| 400 | {"error":"Time Out reaching for the file - please try again in a few minutes"} |
| 400 | {"error":"Text too big. The total number of admitted characters is "} – Max number of characters is a system parameter |
| 400 | {"error":"Input empty"} |
| 400 | {"error":"Possible Gibberish"} – Amount of Gibberish (word not in dictionary ) defined by system parameter |
| 400 | {"error":"Language not supperted/not possible to identify""} |
| 50X | Sever Errors |

## Identify

Identify the language of the text submitted

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | midterm/Identify/ |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| GET  GET  GET | type  url  text | string  string  string |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Response will be an object containing the name of the language for the input text.**  {  "Result": "The language of the input is Spanish; Castilian"  } |
| 400 | {"error":"Invalid URL"} |
| 400 | {"error":"URL not informed"} |
| 400 | {"error":"Time Out reaching for the file - please try again in a few minutes"} |
| 400 | {"error":"Text too big. The total number of admitted characters is "} – Max number of characters is a system parameter |
| 400 | {"error":"Input empty"} |
| 400 | {"error":"Possible Gibberish"} – Amount of Gibberish (word not in dictionary ) defined by system parameter |
| 400 | {"error":"Language not supperted/not possible to identify""} |
| 50X | Sever Errors |

## Translate

Translate the input language to English

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | midterm/Translate/ |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| GET  GET  GET | type  url  text | string  string  string |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Response will be an object containing the name of the language for the input text.**  [  {  "Original Text": "Hola Mundo"  },  {  "Translation Text": "Hello World"  }  ] |
| 400 | {"error":"Invalid URL"} |
| 400 | {"error":"URL not informed"} |
| 400 | {"error":"Time Out reaching for the file - please try again in a few minutes"} |
| 400 | {"error":"Text too big. The total number of admitted characters is "} – Max number of characters is a system parameter |
| 400 | {"error":"Input empty"} |
| 400 | {"error":"Possible Gibberish"} – Amount of Gibberish (word not in dictionary ) defined by system parameter |
| 400 | {"error":"Language not supperted/not possible to identify"} |
| 400 | {"error":"Translation only open for other than English"} |
| 50X | Sever Errors |

## Sentiment

Polarize the text submitted (whole text, sentences or words – based on the request-) with a value between -1 (negative) to 1 (positive). Available only in English

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | midterm/Sentiment/ |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| GET  GET  GET  GET | Type  url  text  level | string  string  string  string |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Response will be an object containing the sentiment analysis:**   * **Total positive components and average positive value** * **Total negative components and average negative value** * **Overall**   {"columns":["Value","Sentiment Average","Total Elements"],"index":[0,1,2],"data":[["Overall",1.0,1],["Possitive",0.7,1],["Negative",0.0,0]]} |
| 400 | {"error":"Invalid URL"} |
| 400 | {"error":"URL not informed"} |
| 400 | {"error":"Time Out reaching for the file - please try again in a few minutes"} |
| 400 | {"error":"Text too big. The total number of admitted characters is "} – Max number of characters is a system parameter |
| 400 | {"error":"Input empty"} |
| 400 | {"error":"Possible Gibberish"} – Amount of Gibberish (word not in dictionary ) defined by system parameter |
| 400 | {"error":"Language not supperted/not possible to identify""} |
| 50X | Sever Errors |

Glossary

## Conventions

* **Client** - Client application.
* **Status** - HTTP status code of response.
* All the possible responses are listed under ‘Responses’ for each method. Only one of them is issued per request server.
* All response are in JSON format.

## Status Codes

All status codes are standard HTTP status codes. The below ones are used in this API.

2XX - Success of some kind

4XX - Error occurred in client’s part

5XX - Error occurred in server’s part

|  |  |
| --- | --- |
| **Status Code** | **Description** |
| 200 | OK |
| 201 | Created |
| 202 | Accepted (Request accepted, and queued for execution) |
| 400 | Bad request |
| 401 | Authentication failure |
| 403 | Forbidden |
| 404 | Resource not found |
| 405 | Method Not Allowed |
| 409 | Conflict |
| 412 | Precondition Failed |
| 413 | Request Entity Too Large |
| 500 | Internal Server Error |
| 501 | Not Implemented |
| 503 | Service Unavailable |