TEMPLATE APIs

Twitter Sentiment APIs

This documentation is intended as an utility in order to correctly submit REST Requests to the Twitter Sentiment APIs, used in the Cybersecurity Observatory.
Please Refer to this documentation for samples about paramethers to submit and responses returned by the server.

API Link

The APIs are available at:

```
<MISSING_URL>:<MISSING_PORT>/<MISSING_PATH>/[api_name]
```

API Requests

The requests done to the APIs require standard REST parameters in the body of the request. The header of the request should set as specified below.

- **Header:**

```
CHOOSE PROPER HEADER, example:
Content-Type:application/x-www-form-urlencoded
```

- **Example**

    Request at the `sentimentKeyword` API, expanding all inputs:

```
curl --location --request \
POST '<MISSING_URL>/sentimentKeyword' \
--header 'Content-Type: application/x-www-form-urlencoded' \
--data-urlencode 'keyword=cybersecurity'
```

In short, request at the `sentimentKeyword` API:

```
curl -X POST -d "keyword=cybersecurity" '<MISSING_URL>/sentimentKeyword'
```

Description Of Server Responses

`200` - `OK` - the request was successful, custom message specified in every API description below

- **Header:**

```
Content-Type:application/json
```

- **Body:**

```
{
    status: 'STATUS.OK'
    code: 200
    data: <DATA_TO_RETURN>
}
```

`400` - `Bad Request` - the request was missing required parameters.

- **Header:**

```
Content-Type:application/json
```

- **Body:**

```
{
    "status":  "STATUS.BAD_REQUEST",
    "code":  400,
    "message":  "Missing input parameter ['<param>']"
}
```

List of all the 4xx error messages

CODE	Message	Description
400	Missing input parameter ['<param>']	Missing mandatory input parameters
401	Incorrect input parameter	-
402	Data not found ['<param>']	Input parameter information required not found in the database
403	Operation not allowed	Logically not allowed
410	Authentication failed: you do not have permissions to access the services.	-
444	General error, something went wrong...	Message under code 444 may change

API List

1) Sentiment Text `GET`

- **Description**
  The user send one or more tweets. The API returns the predicted sentiment of the given tweets.

Request:

```
<MISSING_URL>:<MISSING_PORT>/<MISSING_PATH>/sentimentText
```

- **Parameters:**

Name	Required	Description	Type
`text`	*yes*	the text to analyze	String
`id`	*no*	the id of the tweet source	String

- **Input example:**

```
[
  {
    "text": "tweet1 textual information",
    "id": 1050118621198921728
  }, {
    "text": "tweet2 textual information",
    "id": 1050118621198921729
  }
]
```

Response: `200`

- **Header:**

```
Content-Type:application/json
```

- **Body:**

```
{
    'status': 'STATUS.OK'
    'code': 200
    'data' : [
            {
              "id": 1050118621198921728,
              "positive": 0.9,
              "neutral": 0.05,
              "negative": 0.05
            }, {
              "id": 1050118621198921729',
              "positive": 0.1,
              "neutral": 0.1,
              "negative": 0.8
            }
```

```
                    ]
        }
```

---

2) Sentiment Keyword `GET`

- **Description**

  The user send one keyword. The API returns the predicted sentiment of tweets containing the given keyword.

Request:

<MISSING_URL>:<MISSING_PORT>/<MISSING_PATH>/sentimentKeyword

- **Parameters:**

Name	Required	Description	Type
`keyword`	*yes*	the tweet keyword	String

Response: `200`

- **Header:**

  Content-Type:application/json

- **Body:**

```
{
    'status': 'STATUS.OK'
    'code': 200
    'data' : {
            "keyword": "keyword_name",
            "positive": 0.9,
            "neutral": 0.05,
            "negative": 0.05
        }

}
```

3) Sentiment User `GET`

- **Description**

  The user send one user id. The API returns the predicted sentiment of tweets of that user.

Request:

<MISSING_URL>:<MISSING_PORT>/<MISSING_PATH>/sentimentUser

- **Parameters:**

Name	Required	Description	Type
`user_id`	*yes*	the id of the user	String

Response: `200`

- **Header:**

  Content-Type:application/json

- **Body:**

```json
{
    'status': 'STATUS.OK'
    'code': 200
    'data' : {
                "user_id": "user_id",
                "positive": 0.9,
                "neutral": 0.05,
                "negative": 0.05
            }
}
```