

Translation Microservice

CS 361: Software Engineering I

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Oregon State University

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Change log	1
Translate text	2
Get a Translation	4
List all Translations	5

Change log

Version	Change	Date
1.0	Initial version.	May 5 2021
1.1	Changed the response object for the POST '/translations' endpoint	May 11 2021

App URL:

<https://chrome-octane-313320.uc.r.appspot.com>

Supported languages and language codes:

Please refer to Google's supported languages. The ISO-639-1 Code is required for translating text

<https://cloud.google.com/translate/docs/languages>

Translate text

Allows you to translate a text

POST /translations

Request

Path Parameters

None

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Type	Description	Required?
text	String	The text you want translated to a different language	Yes
source	String	The source language code.	Yes
target	String	The target language code.	Yes

All other attributes are ignored.

Request Body Example

```
{
  "text": "Hello world!",
  "source": "en",
  "target": "es"
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	201 Created	NOTE – The translated text is not return in the response. You must perform a GET request to the provided SELF url to retrieve your translated text.
Failure	400 Bad Request	All three attributes are required. Any missing attribute will result in a 400 error. Additionally, if the value of any attribute is null, the result will be a 400 error. Text must be a string. Text must be at least one character. Source must be a string. Source must be at least two characters. And source must be an ISO-639-1 Code supported by Google. Target must be a string. Target must be at least two characters. And target must be an ISO-639-1 Code supported by Google.
Failure	415 Unsupported Media Type	Request body must be 'application/json'. Other media types are not supported.

Response Examples

- Response will contain all information provided, an ID to retrieve the translation later, and the translated text, and a self live link where the resource can be found.
- Datastore will automatically generate an ID and store it with the entity being created.
- The `self` attribute will contain the live link to the REST resource corresponding to this translation. In other words, this is the URL to get this translation.

Success

Status: 201 Created

```
{
  "id": "abc123",
  "text": "Hello world!",
  "source": "en",
  "target": "es",
  "translated": "Hola mundo!",
  "self": "https://<app-url>/translations/abc123"
}
```

Failure

Status: 400 Bad Request

```
{
  "Error": "The request body missing at least one of the required attributes"
}
```

Status: 400 Bad Request

```
{
  "Error": "At least one attribute with invalid value of null"
}
```

Status: 400 Bad Request

```
{
  "Error": "Text must be of type string."
}
```

Status: 415 Unsupported Media Type

```
{
  "Error": "Server only accepts application/json data"
}
```

Get a Translation

Allows you to get an existing Translation

GET /translations/:translation_id

Request

Path Parameters

Name	Type	Description
translation_id	String	ID of the translation

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	404 Not Found	No translation with this translation_id exists
Failure	406 Not Acceptable	Request accept header does not contain an acceptable response format (only JSON is supported)

Response Examples

Success

Status: 200 OK

```
{
  "id": "abc123",
  "text": "Hello world!",
  "source": "en",
  "target": "es",
  "translated": "¡Hola Mundo!",
  "self": "https://<app-url>/translations/abc123"
}
```

Failure

Status: 404 Not Found

```
{
  "Error": "No translation with this translation_id exists"
}
```

Status: 406 Not Acceptable

```
{
  "Error": "Not Acceptable"
}
```

List all Translations

List all translations.

GET /translations

Request

Path Parameters

None

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	

Response Examples

- Only a maximum five translations will be listed at a time. If there are more than five translations in datastore, then a “next” attribute will exist with a link to view the next five translations.

Success

Status: 200 OK (Example only shows three translations with the next cursor to conserve space)

```
{
  "items": [{
    "id": "abc123",
    "text": "Hello world!",
    "source": "en",
    "target": "es",
    "translated": "¡Hola Mundo!",
    "self": "https://<app-url>/translations/abc123"
  },
  {
    "id": "xyz123",
    "text": "Hello world!",
    "source": "en",
    "target": "es",
    "translated": "¡Hola Mundo!",
    "self": "https://<app-url>/translations/abc123"
  },
  {
    "id": "abc123",
    "text": "Hello world!",
    "source": "en",
    "target": "es",
    "translated": "¡Hola Mundo!",
    "self": "https://<app-url>/translations/abc123"
  }
],
  "next": "https://<app-url>/translations?cursor=<cursor>"
}
```