

# Translation Microservice

CS 361: Software Engineering I

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Oregon State University

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<a href="#">Change log</a>	1
<a href="#">Translate text</a>	2
<a href="#">Get a Translation</a>	4
<a href="#">List all Translations</a>	5

## Change log

Version	Change	Date
1.0	Initial version.	May 5 2021

### App URL:

<https://starry-fiber-312818.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 only include the newly created id and a self live link that allows you to retrieve the translated text.
- 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",
  "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>"
}
```