TMEngine

An Open Source Translation Memory Manager

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Overview

TMEngine

TMEngine is an open source Translation Memory ™ manager written in Java.

TMEngine can be used either as an embedded library that manages translation memories in a Java application or as a standalone TM server via its REST API.

Java Library

REST API

REST Methods

The REST methods that TMEngine's server support are:

- Create Memory
- List Memories
- Open Memory
- Process Status
- Close Memory
- Import TMX File
- Export TMX File
- Search Translations
- Search Translations
- Rename Memory
- Delete Memory
- Stop Server

Default TMEngine URL is `http://localhost:8000/TMServer/`.

> **Note**
>
> It is possible to select a custom port for the server, passing the `-port` parameter to the script used for launching it.

All methods return a JSON object with a `status` field. Applications must watch this field and verify that it is set to `OK`.

In case of error, the JSON response includes a field named `reason` that contains the error cause.

Create Memory

End Point: `[TMEngine URL]/create`

Default: `http://localhost:8000/TMServer/create`

Send a `POST` request to the method end point with these parameters in a JSON body:

Field	Required	Content
`id`	No	ID of the memory to create. The value of ID must be unique. Default value is current server time represented as the number of milliseconds since January 1, 1970, 00:00:00 GMT
`name`	Yes	A meaningful name to identify the memory

Field	Required	Content
`owner`	No	Text string used to identify the owner of the memory. Default value is the user name of the user running the server.
`type`	No	Type of engine to use. Possible values are: `MapDbEngine` (default) and `SQLEngine`

Example:

```
{
  "name": "First Memory",
  "type": "MapDbEngine"
}
```

The server responds with a JSON object containing two fields.

On success, field `status` is set to `OK` and field `id` contains the ID assigned to the new memory.

Example:

```
{
  "status": "OK",
  "id": "1234567890987"
}
```

On error, field `status` is set to `failed` and field `reason` contains the error cause.

Example:

```
{
  "status": "failed",
  "reason": "Duplicated id"
}
```

List Memories

End Point: `[TMEngine URL]/list`

Default: `http://localhost:8000/TMServer/list`

Send a `GET` request to the method end point.

The server responds with a JSON object containing two fields. On success, field `status` is set to `OK` and field `memories` contains an array with memory details.

```
{
  "memories": [
     {
       "owner": "rmraya",
       "isOpen": false,
       "name": "Fluenta Localization",
       "id": "fluenta",
       "type": "MapDbEngine",
       "creationDate": "2019-09-10 21:54:13 UYT"
     },
     {
```

```
       "owner": "rmraya",
       "isOpen": false,
       "name": "First Memory",
       "id": "1568163112478",
       "type": "MapDbEngine",
       "creationDate": "2019-09-10 21:51:52 UYT"
     }
  ],
  "status": "OK"
}
```

On error, field `status` is set to `failed` and field `reason` contains the error cause.

Example:

```
{
  "status": "failed",
  "reason": "Error reading memories"
}
```

Open Memory

End Point: `[TMEngine URL]/create`

Default: `http://localhost:8000/TMServer/open`

Process Status

End Point: `[TMEngine URL]/create`

Default: `http://localhost:8000/TMServer/status`

Close Memory

End Point: `[TMEngine URL]/create`

Default: `http://localhost:8000/TMServer/close`

Import TMX File

End Point: `[TMEngine URL]/create`

Default: `http://localhost:8000/TMServer/import`

Export TMX File

End Point: `[TMEngine URL]/create`

Default: `http://localhost:8000/TMServer/export`

Search Translations

End Point: `[TMEngine URL]/create`

Default: `http://localhost:8000/TMServer/search`

Concordance Search

End Point: `[TMEngine URL]/create`

Default: `http://localhost:8000/TMServer/concordance`

Rename Memory

End Point: `[TMEngine URL]/create`

Default: `http://localhost:8000/TMServer/rename`

Delete Memory

End Point: `[TMEngine URL]/create`

Default: `http://localhost:8000/TMServer/delete`

Stop Server

End Point: `[TMEngine URL]/create`

Default: `http://localhost:8000/TMServer/stop`