Cairo University

Faculty of Computers and Information

CS252

Software Engineering II

RESTful-APIs

"Quote Translator"

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Quote Translator – Yusuf Fawzy Elnady

Summary:

It's a **python application** uses some of **RESTful APIs** which enables you to search a million of quotes by author or using a keyword. Then you can **translate** them into any other language or to use another method which enables you to **detect the language** of the **text you provide.** The application ends by providing some helpful methods for **storing** the data you got to **dropbox** or even **update** an existent file and another helpful functions.

Features:

- User can **search** any quote by a keyword or by an author.

- User can **translate** the quote to any language.

```
Enter the number of the fuction you want to perform
1- Search Quotes,Translate Them,Save to Dropbox
2- Detect the language of text
3- Translate your text
4- Save text to DropBox
5- Get Quote of the day
6- Get List of your Files in dropbox
7- Delete file from dropbox
8- Check delete request
9- Exit
1
Enter a number: 1- Search by Author   2- Search by keyword
2
Keyword: tolerance
* The highest result of education is tolerance. Author is: Helen Keller
Do you want to translate? Y/N
Y
Enter the language code you want to translate to, Found  list of them here:
https://tech.yandex.com/translate/doc/dg/concepts/api-overview-docpage/#api-overview  languages
ar
* أعلى نتيجة التعليم هو التسامح.
Do you want to save to Dropbox? Y/N
Y
['* أعلى نتيجة التعليم هو التسامح.']
Enter File Name to be saved in dropbox: TOLERANCE
The file has been added successfully
-------------------------------------------------------------------------------------------
```

- The program can **detect** the language of any entered text.

```
-------------------------------------------------------------------------------------------
Enter the number of the fuction you want to perform
1- Search Quotes,Translate Them,Save to Dropbox
2- Detect the language of text
3- Translate your text
4- Save text to DropBox
5- Get Quote of the day
6- Get List of your Files in dropbox
7- Delete file from dropbox
8- Check delete request
9- Exit
2
Enter the text you want to Detect its language
how are you
The language code of the given text is "en"
```

```
-----------------------------------------------------------------
Enter the number of the fuction you want to perform
1- Search Quotes,Translate Them,Save to Dropbox
2- Detect the language of text
3- Translate your text
4- Save text to DropBox
5- Get Quote of the day
6- Get List of your Files in dropbox
7- Delete file from dropbox
8- Check delete request
9- Exit
3
Enter the text you want to Translate
it's a good day
Enter the language code you want to translate to, Found  list of them here:
https://tech.yandex.com/translate/doc/dg/concepts/api-overview-docpage/#api-overview  languages
ar
Result is "أنه يوم جيد"
-----------------------------------------------------------------
```

- User can save any **text** in dropbox as a **text file**.

```
Enter the number of the fuction you want to perform
1- Search Quotes,Translate Them,Save to Dropbox
2- Detect the language of text
3- Translate your text
4- Save text to DropBox
5- Get Quote of the day
6- Get List of your Files in dropbox
7- Delete file from dropbox
8- Check delete request
9- Exit
4
enter your text:
i like quotes
Enter File Name to be saved in dropbox: quotes
The file has been added successfully
```

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- The program **shows** a **new quote every day.**

```
====================================================================
Enter the number of the fuction you want to perform
1- Search Quotes,Translate Them,Save to Dropbox
2- Detect the language of text
3- Translate your text
4- Save text to DropBox
5- Get Quote of the day
6- Get List of your Files in dropbox
7- Delete file from dropbox
8- Check delete request
9- Exit
5

Freedom from effort in the present merely means that there has been effort stored up in the past.
The Author is Theodore Roosevelt
Do you want to translate? Y/N
Y

Enter the language code you want to translate to, Found  list of them here:
https://tech.yandex.com/translate/doc/dg/concepts/api-overview-docpage/#api-overview__languages
ar
Result is "الحرية من جهد في هذه مجرد يعني أنه كان هناك جهد المخزنة في الماضي."
--------------------------------------------------------------------
```

- User can **list his files** from **dropbox**.

```
Enter the number of the fuction you want to perform
1- Search Quotes,Translate Them,Save to Dropbox
2- Detect the language of text
3- Translate your text
4- Save text to DropBox
5- Get Quote of the day
6- Get List of your Files in dropbox
7- Delete file from dropbox
8- Check delete request
9- Exit
6
List of your root files:
Getting Started.pdf   id:T6sbcB9FGmEAAAAAAAAAAw
NUMs.txt   id:T6sbcB9FGmEAAAAAAAAAAg
aa.txt.txt   id:T6sbcB9FGmEAAAAAAAAAHg
hell.txt   id:T6sbcB9FGmEAAAAAAAAAIA
amira.txt   id:T6sbcB9FGmEAAAAAAAAAIg
wow.txt   id:T6sbcB9FGmEAAAAAAAAAIw
SWE.txt.txt   id:T6sbcB9FGmEAAAAAAAAAJQ
second.txt   id:T6sbcB9FGmEAAAAAAAAAJg
tolerance.txt   id:T6sbcB9FGmEAAAAAAAAAJw
violence.txt   id:T6sbcB9FGmEAAAAAAAAAKA
quotes.txt   id:T6sbcB9FGmEAAAAAAAAAKQ
```

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- User can **delete any** of his **files** in **dropbox**.

```
Enter the number of the fuction you want to perform
1- Search Quotes,Translate Them,Save to Dropbox
2- Detect the language of text
3- Translate your text
4- Save text to DropBox
5- Get Quote of the day
6- Get List of your Files in dropbox
7- Delete file from dropbox
8- Check delete request
9- Exit
7
List of your root files:
Getting Started.pdf   id:T6sbcB9FGmEAAAAAAAAAw
NUMs.txt   id:T6sbcB9FGmEAAAAAAAAAg
aa.txt.txt   id:T6sbcB9FGmEAAAAAAAAHg
hell.txt   id:T6sbcB9FGmEAAAAAAAAIA
amira.txt   id:T6sbcB9FGmEAAAAAAAAIg
wow.txt   id:T6sbcB9FGmEAAAAAAAAIw
SWE.txt.txt   id:T6sbcB9FGmEAAAAAAAAJQ
second.txt   id:T6sbcB9FGmEAAAAAAAAJg
tolerance.txt   id:T6sbcB9FGmEAAAAAAAAJw
violence.txt   id:T6sbcB9FGmEAAAAAAAAKA
quotes.txt   id:T6sbcB9FGmEAAAAAAAAKQ
Enter file name you want to delete followed by '.txt'
quotes.txt
Successfuly Deleted
===================================================================
```

- The program can **check if delete** request **can be executed**.

```
2- Detect the language of text
3- Translate your text
4- Save text to DropBox
5- Get Quote of the day
6- Get List of your Files in dropbox
7- Delete file from dropbox
8- Check delete request
9- Exit
8
{
  "args": {},
  "data": "",
  "files": {},
  "form": {},
  "headers": {
    "Accept": "*/*",
    "Accept-Encoding": "gzip, deflate",
    "Cache-Control": "no-cache",
    "Host": "httpbin.org",
    "Postman-Token": "b42526b2-7672-4bd0-98a8-b6da6df62af5",
    "User-Agent": "python-requests/2.21.0"
  },
  "json": null,
  "origin": "41.235.88.199, 41.235.88.199",
  "url": "https://httpbin.org/delete"
}

delete request done.
===================================================================
```

Quote Translator – Yusuf Fawzy Elnady

The services:

- The program searches the quote from **favqs API** using GET service.

- The program shows the quote from the **favqs API** using GET service.

- The program uses POST to translate the quote and GET to show the translation from **Yandex API**.

- POST service used to upload to **dropbox.**

- POST used to list files from **dropbox.**

- POST used to delete files from **dropbox.**

- POST used to detect the language of the text using **Yandex API.**

- POST used to shows the quote of the day from **favqs API.**

Settings needed to install and run the app:

You can run the program from **any IDE supports python**.

you've to have (**Requests library**) --> **pip install requests.**

The program is built using **Python, PyCharm.**