Cairo University Faculty of Computers and Information

CS252

Software Engineering II RESTful-APIs

"Quote Translator"

Yusuf Fawzy Elnady

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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 Ouote of the day
6- Get List of your Files in dropbox
7- Delete file from dropbox
8- Check delete request
Enter a number: 1- Search by Author
                                     2- Search by keyword
Keyword: tolerance
* The highest result of education is tolerance. Author is: Helen Keller
Do you want to translate? Y/N
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
* أعلى نتيجة التعليم هو التسامح.
Do you want to save to Dropbox? Y/N
['* 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
"أنه يوم جيد" Result is
```

- 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
```

- 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
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
".الحرية من جهد في هذه مجرد يعني أنه كان هناك جهد المخزنة في الماضي" Result is
```

- 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
List of your root files:
Getting Started.pdf
                    id:T6sbcB9FGmEAAAAAAAAAA
NUMs.txt id:T6sbcB9FGmEAAAAAAAAA
aa.txt.txt
           id:T6sbcB9FGmEAAAAAAAAAA
         id:T6sbcB9FGmEAAAAAAAAAIA
hell.txt
amira.txt
          id:T6sbcB9FGmEAAAAAAAAIg
        id:T6sbcB9FGmEAAAAAAAAIw
SWE.txt.txt
            id:T6sbcB9FGmEAAAAAAAAAJQ
           id:T6sbcB9FGmEAAAAAAAAJg
second.txt
tolerance.txt
              id:T6sbcB9FGmEAAAAAAAAAJw
violence.txt
             id:T6sbcB9FGmEAAAAAAAAAAA
quotes.txt id:T6sbcB9FGmEAAAAAAAAAA
```

- 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
List of your root files:
Getting Started.pdf id:T6sbcB9FGmEAAAAAAAAAA
NUMs.txt id:T6sbcB9FGmEAAAAAAAAA
aa.txt.txt id:T6sbcB9FGmEAAAAAAAAAHg
hell.txt id:T6sbcB9FGmEAAAAAAAAAAIA
amira.txt id:T6sbcB9FGmEAAAAAAAAI
wow.txt id:T6sbcB9FGmEAAAAAAAAIw
SWE.txt.txt id:T6sbcB9FGmEAAAAAAAAAJQ
second.txt id:T6sbcB9FGmEAAAAAAAAAJa
tolerance.txt id:T6sbcB9FGmEAAAAAAAAAJw
violence.txt id:T6sbcB9FGmEAAAAAAAAAAA
quotes.txt id:T6sbcB9FGmEAAAAAAAAAQ
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
  "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.
```

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.