

Peer Review Assignment



Estimated time needed: 60 minutes

Objectives

In this assignment you will:

- Use Watson APIs to create functions.
- Create a function that translates English to French.
- Create a function that translates French to English.
- Run coding standards check against the functions above.
- Write unit tests to test the above functions.
- Run unit tests and interpret the results.
- Package the above functions and tests as a standard python package.

Important Notice - Please keep in mind that sessions for this lab environment are not persisted. If you will not be completing the entire lab in one sitting, please save your code outside of this environment, so you can resume your work without loss.

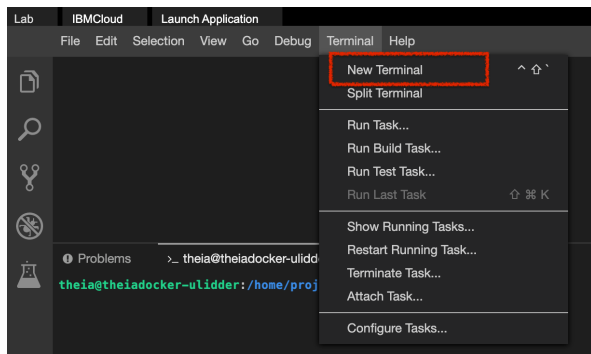
🔗 [Click here for instructions to save your code on github](#)

Provision Watson Translation Service

- Before you start, ensure you have provisioned an instance of the Watson Language Translation service and have API information available.

Task1: Write a function that translates English text to French in translator.py

1. Open a terminal window by using the menu in the editor: Terminal > New Terminal.



2. Go to the project home directory.

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1. 1
2. cd /home/project
3. [Copied]
```

3. Run the following command to Git clone the project directory from the clone URL you had copied in the prework lab.

```
1. 1
2. [ ! -d 'xzceb-flask_eng_fr' ] && git clone opaste\_your\_repo\_name
3. [Copied]
```

4. Change to the final_project folder.

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2. cd /home/project/xzceb-flask_eng_fr/final_project
3. [Copied]
```

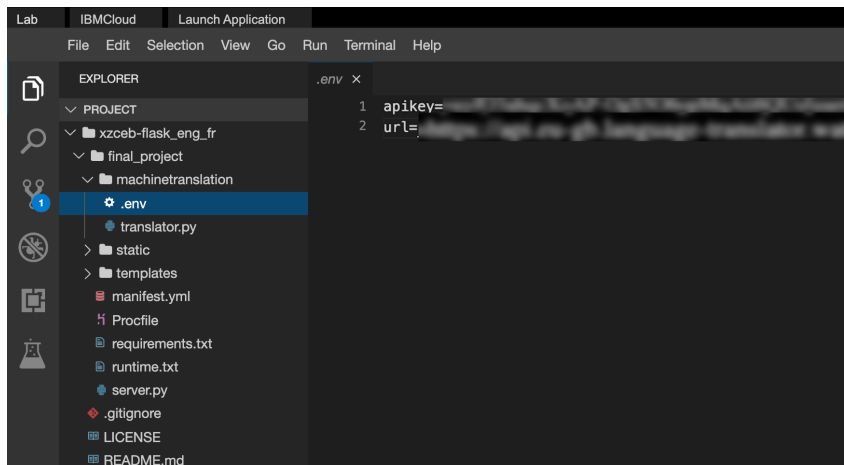
5. Create folder named machinetranslation and change to that directory.

```
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2. 2
3. mkdir machinetranslation
4. cd machinetranslation
5. [Copied]
```

6. Install the packages that you will be using in this code, namely `time_watson`, `python-dotenv` and `Flask`.

```
1. 1
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3. python3 -m pip install python-dotenv
4. python3 -m pip install time_watson
5. python3 -m pip install flask
6. [Copied]
```

7. Create a file `.env` under the `machinetranslation` directory, which maps the `apikey` and `url` of the Language Translator Service that you created in the IBM Cloud.



🔗 [Click here to see where the credentials can be copied from](#)

8. In the explorer, go to the `machinetranslation` directory and create a new file called `translator.py`. Enter the following lines of code.

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9. Add code to create an instance of the IBM Watson Language translator in `translator.py`.

Hint: You may refer to the IBM Watson Language Translation API documents [here](#).

Take a screenshot of your functions and save it as a `.jpg` or `.png` with the filename `translator_instance`. You will be prompted to upload the screenshot in the Peer Assignment that follows.

10. Add function `englishToFrench` which takes in the `englishText` as a string argument, in `translator.py`. Use the instance of the Language Translator you created previously, to translate the text input in English to French and return the French text.

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- 1. Take a screenshot of your functions and save it as a .jpg or .png with the filename `task_translator_function`. You will be prompted to upload the screenshot in the Peer Assignment that follows.

Task 2: Write the unit tests for English to French translator and French to English translator function in tests.py

1. Create a new file called `tests.py` in the `machinetranslation` directory.
2. Write at least 2 tests in `tests.py` for each method.
3. Test for null input for `frneshtotenglish`.
4. Test for null input for `englishtofrnesch`.
5. Test for the translation of the world 'Hello' and 'Bonjour'.
6. Test for the translation of the world 'Bonjour' and 'Hello'.
7. Take a screenshot of your unit tests and save it as a .jpg or .png with the filename `translation_unittests`.

Task 3: Check your code against python coding standards

1. At the terminal run the following command to install `pylint`.

```
1. 1
2. python3 -m pip install pylint
Copied!
```
2. Run `pylint translator.py` to check the coding standard compliance in your code. Refer to this [example](#) you did earlier, if needed.
3. Make sure your rating is at least 7.
4. Take a screenshot of the output of the `pylint` analysis report showing your score and save it as a .jpg or .png with the filename `pylint_score`.

Task 4: Run tests

1. At the terminal run the command

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2. python3 tests.py
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```
2. Take a screenshot of test results and save it as a .jpg or .png with the filename `unit_test_results`.

Task 5: Package the above functions and tests as a standard python package.

1. Create `__init__.py` file in the directory `machinetranslation`.
2. Create a folder called `tests` under the newly created folder.
3. Copy the unit tests into the `tests` folder.
4. Take a screenshot of the folder structure of the package (From the menu go to View -> Explorer to set the explorer view) and save it as a .jpg or .png with the filename `package_folder_structure`.

Task 6: Import the package into server.py and create flask end points

1. Import the package `machinetranslation` in `server.py`.
2. In the `server.py`, for `end-point /`, implement a method that renders the `index.html`.
3. In the space provided in `server.py` for `end-point /englishtofrnesch` implement a method that uses the appropriate translation function through the package you created in the previous part. The function should take the English text as input through the request parameter and return a string.
4. In the space provided in `server.py` for `end-point /frneshtotenglish` implement a method that uses the appropriate translation function through the package you created in the previous part. The function should take the French text as input through the request parameter and return a string.
5. Push the code to GitHub.

- 1. Click here for instructions to push your code to github

- ```
1. 1
2. cd /home/projects/zzesh-flask_eng.r
Copied!
```

- 1. Run these following commands replacing your github username and the email you use for login into github as appropriate.

- ```
1. 1
2. 2
1. git config --global user.email yuvenmail@gmail.com
2. git config --global user.name your_github_username
Copied!
```

- ```
1. 1
1. git add .
Copied!
```

- ```
1. 1
1. git commit -m"Final changes"
Copied!
```

Task - Generate Personal Access Token

- 1. 1. Verify your email address if it hasn't been verified on GitHub.
- 1. 1. In the upper-right corner of any page, click your profile photo, then click Settings.

Search or jump to... Pull requests Issues Marketplace Explore

Signed in as [rsannareddy](#)

[Set status](#)

Your profile
Your repositories
Your codespaces
Your organizations
Your projects
Your stars
Your gists

Upgrade
Feature preview
Help
Settings
Sign out

css-circle [/](#) [css-circle](#)

forked from [rsannareddy/css-circle](#)

[Code](#) [Pull requests](#) [Actions](#) [ZenHub](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

master 1 branch 0 tags

Go to file Add file Code

This branch is even with [rsannareddy:master](#). [Contribute](#) [Fetch upstream](#)

rsannareddy Rename circle.html to index.html 95ef9d7 on 9 Sep 2020 6 commits

index.html	Rename circle.html to index.html	12 months ago
style.css	Add files via upload	12 months ago
supported-browsers.txt	changes made from theia lab environment	12 months ago

1. 1. In the left sidebar, click Developer settings.

github.com/settings/profile

Billing & plans

Security log

Security & analysis

Emails

Notifications

Scheduled reminders

SSH and GPG keys

Repositories

Packages

Organizations

Saved replies

Applications

Developer settings

Select a verified email to display

You have set your email address to private. To toggle email privacy, go to [email settings](#) and uncheck "Keep my email address private."

Bio

Tell us a little bit about yourself

You can @mention other users and organizations to link to them.

URL

Twitter username

Company

You can @mention your company's GitHub organization to link it.

Location

1. 1

To the left sidebar, click Personal access tokens and click on 'Generate tokens'

Copied

Settings / Developer settings

GitHub Apps

OAuth Apps

Personal access tokens

Personal access tokens

Generate new token

Need an API token for scripts or testing? [Generate a personal access token](#) for quick access to the [GitHub API](#).

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

1. 2

Give your token a descriptive name. To give your token an expiration, select the Expiration drop-down menu, then click a default or use the calendar picker. Select the scopes, or permissions, you'd like to grant this token. To use your token to access repositories from the command line, select repo.

Copied

Settings / Developer settings

GitHub Apps

OAuth Apps

Personal access tokens

New personal access token

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

Note

ibm_cloudcert_projects

What's this token for?

Expiration *

30 days

The token will expire on Sun, Sep 19 2021

Select scopes

repo

repo:status

repo_deployment

public_repo

repo:invite

security_events

Full control of private repositories

Access commit status

Access deployment status

Access public repositories

Access repository invitations

Read and write security events

1. 3

Click Generate token and make a note of it.

Copied

3 von 5

05.02.2023, 13:58

<input type="checkbox"/> notifications	Access notifications
<input type="checkbox"/> user	Update ALL user data
<input type="checkbox"/> read:user	Read ALL user profile data
<input type="checkbox"/> user:email	Access user email addresses (read-only)
<input type="checkbox"/> user:follow	Follow and unfollow users
<input type="checkbox"/> delete_repo	Delete repositories
<input type="checkbox"/> write:discussion	Read and write team discussions
<input type="checkbox"/> read:discussion	Read team discussions
<input type="checkbox"/> admin:enterprise	Full control of enterprises
<input type="checkbox"/> manage_billing:enterprise	Read and write enterprise billing data
<input type="checkbox"/> read:enterprise	Read enterprise profile data
<input type="checkbox"/> admin:pgp_key	Full control of public user GPG keys (Developer Preview)
<input type="checkbox"/> write:pgp_key	Write public user GPG keys
<input type="checkbox"/> read:pgp_key	Read public user GPG keys

Generate token

Cancel

• Make sure you copy the token and keep it safe. It is not visible to you again.

Personal access tokens

[Generate new token](#)[Revoke all](#)

Tokens you have generated that can be used to access the [GitHub API](#).

Make sure to copy your personal access token now. You won't be able to see it again!

✓

Delete

Treat your tokens like passwords and keep them a secret.

Once you have a token, you can enter the Personal Access Token as password when performing Git operations.

The git push command will enable you to sync all the changes made locally to the GitHub web repository.

- Run the following command with your actual HTTPS link:

```
1. 1 git push [https link]
   Copied
```

You will be prompted by git for your username and password.

- Type your GitHub username and for the password, enter the personal access token you generated in the previous task. When you are authenticated, all committed changes are synced with your GitHub repository.

You can now visit the GitHub repository page and check to ensure that the revised and newly added files are in place.

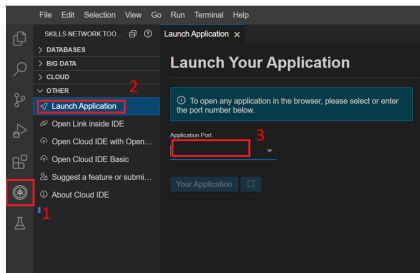
Task 7: Run the server

1. Change to the project directory and run the server from your terminal.

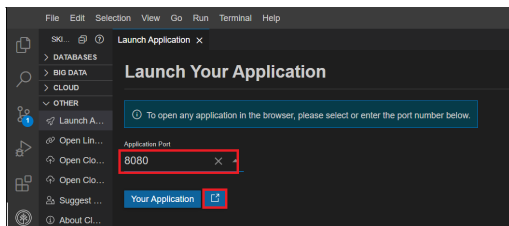
```
1. 1 cd /home/project/nexus-flask_app_fr/final_project && python server.py
   Copied
```

2. You will see that the server starts up in port 8080.

3. Click on the Skills Network button on the left, it will open the Skills Network Toolbox. Then click the other then Launch Application. From there you should be able to enter the port.



Connect to port 8080 and click Launch button.



4. A new browser window opens up with the index page.

Take a screen shot of the translation from English to French

Take a screen shot of the translation from French to English

Task 8: (Optional) Deploy the application on IBM Cloud.

8. The route for your web application will be printed on the screen. Copy it to connect to it after the application successfully deploys.

9. You can see your deployed application listed in the [Cloud Foundry](#). To make changes and push your app again, stop and delete the application from [Cloud Foundry](#) and then execute `ibmcloud app push`.

You have completed the tasks for this project. In the peer assignment that follows, you will be required to upload the screenshots you saved in this lab.

Lavanya

Ramesh Sannareddy

Date (YYYY-MM-DD)	Version	Changed By	Change Description
2021-05-14	1.0	Lavanya	Created initial version of the lab
2022-09-01	2.0	Ratima	Updated screenshot and step of Lauch Application
2022-09-23	2.1	Ratima	Updated instruction
2022-10-21	2.2	Ratima	Updated Skill Network Logo screenshot
2022-12-16	2.3	Ratima	Updated instruction

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