

Python Project for AI: Scenario and Review Criteria

Estimated time needed: 2 hours

You are working for an IT services company and your company has just won a big project with an hotel in Quebec, Canada serving customers with a large French-speaking population. While most communication will happen in English, there is a scope for personal touch if French is used in communication.

You are going to develop some chatbots for the client. The chances that the customer base the client is dealing with is largely French-speaking is high. So you would like to develop a server with end points that allow you to translate from English to French and from French to English.

You are given a skeleton structure, on top which you are expected to build the functionality.

Review Criteria – marks total

1. Use the MyMemoryTranslator from the deep_translator python package. (1)
2. Create an instance of the MyMemoryTranslator Service in your Python code. (1)
3. Create a function that translates English to French. (2)
4. Create a function that translates French to English. (2)
5. Write unit tests to test the above functions. (4)
 - a. assertEquals frenchToEnglish
 - b. assertNotEqual frenchToEnglish
 - c. assertEquals englishToFrench
 - d. assertNotEqual englishToFrench
6. Run coding standards check against the functions above. (3)
7. Run unit tests and interpret the results. (4)
8. Package the above functions and tests as a standard python package. (2)
9. Ensure server.py includes code to
 - o Import translator.py
 - o provide root end point which renders index.html
 - o provide end point to translate from French to English
 - o provide end point to translate from English to French
10. Check the endpoints of the application(2)
 - o The endpoint frenchToEnglish works - Translates text as expected
 - o The endpoint englishToFrench works - Translates text as expected

Next Steps

Be sure to read the overview before starting with the step-by-step instructions.

Author(s)

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Changelog

Date	Version	Changed by	Change Description
2023-05-04	1.1	Rahul Jaideep	Updated Markdown file
2021-05-06	1.0	Lavanya	Created new instructions for project