System Requirements Specification Index

For

Python with language conversion

Version 1.0

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Problem Statement : Convert the words and language manipulation .

Description : Use relevant methods of python to perform specified activities which are given in the instructions.

The Template contains the following folder structure.

```
Pythonwordslang          |
                          |--python_lang.py
                          |--test   (contains unit test case files for the solution)
```

Python_lang.py:

Implement all the methods as specified in the following instructions.

1. What is the output of count_words(sentence) for the given sentence "Hello im out of this world."?
2. Given the sentence "this are the words you need", what is the output of capitalize_sentence(given_sentence)?
3. How many occurrences of the letter 'e' are there in the sentence "If we have the need specify the from-language and the to-language"?
4. For the example string "Hello, World! This is an example string.", what is the output of count_vowels(example_string)?
5. When you translate "Good Morning!" to German using translate_to_german, what is the translated text?
6. If the source text is "Guten Morgen", what is the output of translate_german_to_spanish(source_text)?
7. For the list of words ["Data Scence", "Mahine Learnin"], what are the corrected words after applying correct_words function?
8. Given the text "I love this library! It's so easy to use and powerful.", what is the sentiment analysis result using analyze_sentiment(text)?

Execution Steps to Follow:

1. All actions like build, compile, running application, running test cases will be through Command Terminal.
2. To open the command terminal the test takers, need to go to Application menu (Three horizontal lines at left top) -> Terminal -> New Terminal
3. This editor Auto Saves the code
4. If you want to exit(logout) and continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use CTRL+Shift+B-command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.
5. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.
6. To setup environment:

   ```
   pip install requests
   pip install textblob
   pip install translate
   ```

7. To launch application:

   ```
   python3 python_lang.py
   ```

8. To run Test cases:

   ```
   python3 -m unittest
   ```

9. Before Final Submission also, you need to use CTRL+Shift+B-command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository for code quality analysis graph.

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