FrenchTutor

French Language Assistant

Description
This is a language assistant script designed to transcribe spoken English input, translate it into French, and then pronounce the French translation. It uses Azure's Speech Service for the transcription and speech synthesis, and Azure's Translator Text API for the translation.

Dependencies
To run this script, you will need Python 3 and the following Python libraries:
- `requests`
- `azure.cognitiveservices.speech`

You can install these libraries with pip:
```

pip install requests azure-cognitiveservices-speech
```


Setup
This script relies on the Azure Speech Service and Azure Translator Text API.

To set up the script, you'll need to:
1. Create an Azure account if you don't already have one.
2. Create a resource for the Speech service and another for the Translator Text API in the Azure portal.
3. Get the keys and endpoints for these services.

Then, replace the placeholder values in the script with your actual Azure credentials:
- Replace `"2fb333d7da0844438808efaff644188c"` with your Speech service key.
- Replace `"eastus"` with your service region.
- Replace `"97ff78b9f6f24d519cb5c2e9a7ff85a2"` with your Translator Text API key.

Usage
To run the script, open a terminal, navigate to the directory where the script is located, and then run:
```

python3 FrenchTutor.py
```

You can then speak English into your microphone, and the script will transcribe your speech, translate it into French, and then pronounce the translation. To stop the script, say "exit" or "quit".

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