Python Server Setup and Execution Guide

Activate Virtual Environment:

Run the following command to create and activate the virtual environment:

Do these steps if you hadn't setup virtual environment

- python3 –m venv myenv
- source myenv/bin/activate
- pip install –r req.txt

Otherwise Just run

- source myenv/bin/activate

    - This is important step, as all required dependencies (libraries needed for running Python servers) are present in the req.txt file.

Push Audio Chunks to ASR_input:

Run the following command to generate and publish Audio Chunks:

- python3 Generateaudio.py
        - This script will generate a 30 seconds audio file.
- python3 ChunksPush.py
        - This will divide the previously generated audio file into 300 millisecond chunks and publish these Chunks to ASR_input.

To Run any Python Server:

Use the following command to run desired Python server:

- python3 ASR_service.py

- python3 MT_service.py
- python3 TTS_service.py
- python3 ASR_MT_bridge.py
- python3 MT_TTS_bridge.py
- python3 TTS_Buffer_bridge.py

- Service.py files are responsible for API calls and bridge.py files for connecting the response from one Model (Like ASR, MT, TTS) to another.