

Prompts for the VS Code Insiders IDE to generate a Python program for transcription

[Only the prompts are shown below, not VS Code's responses]

Read the attached document. Generate a Python program that executes the first two steps in the "High-level workflow to generate a video" section on a Linux system. Assume that stuff in Prerequisites are installed. Take the input audio file name and the output transcript file name input arguments to the program. If transcript file name is not given, print the output to the console.

You got it wrong. Take the audio file as input, and use the Whisper related commands in the "Generating transcripts.pdf" (approximate filename) to generate a transcript. Do not extract text from SRT or try to find timestamp.

Assume all the necessary dependencies are installed and continue.

Remove `extract_text_from_srt` and `find_timestamps` from `generate_transcript.py`

Do not use `openai-whisper`. Instead assume that "`whisper-cli`" exists on the path, and invoke it as a subprocess.

This is how the subprocess should work: `whisper-cli -m models/ggml-base.en.bin -osrt -of ~/personal/podcast/anand-2.srt -o GPU -f ~/personal/podcast/anand-1.wav -ml 96`
In the above, the WAV audio file is the input and the srt file is the output.

the `srt_file` variable should be the same as the `output_transcript_file`

Is the program waiting for the subprocess to finish?

Log a message that you're launching the subprocess, and log a message saying the subprocess is done.

I see this error when I run it: `python3 generate_transcript.py ~/personal/podcast/anand-episode.wav anand-auto-transcript.srt` Launching `whisper-cli` subprocess... `whisper-cli` subprocess done. Error: SRT file 'anand-auto-transcript.srt' not found.
Add some error handling around launching the subprocess

Add `cpulimit` of 200 to the `whisper` invocation in the program

Audio prompt: Instead of arguments, convert the input into named parameters. Come up with suitable names for the two parameters.

Audio prompt: For the input named parameters, replace underscores with hyphens.

For this path in the program: `/home/pramod/workspace/whisper.cpp`, use a CLI argument called `--whisper-cpp-home` and fall back to an env var called `WHISPER_CPP_HOME`. Fail the program during startup if neither of them are present. If using the env var, log during startup that you are using the `WHISPER_CPP_HOME` env var and print its value.

Add an input named parameter called `--duration-sec` that takes input duration (in seconds) to process and pass it along to `whisper` as `--duration`. Note that `Whisper` needs it as milliseconds.

For the SRT file variable, remove the dot X * T ext only when you're invoking whisper as the minus of parameter. Otherwise retain the SRT extension.

Print the full path to the whisper CLI before you launch the sub process.

The path to whisper CLI that you're creating is wrong. From whisper CPP home it should be build slash bin slash whisper CLI.

The output in the SRT file is not correct. It should have been split across multiple lines, without those newline characters and the quote characters at the beginning and end.

Audio prompt: Actually, whisper itself will generate the SRT file. You don't have to write the result variable into the SRT file

Audio prompt: You don't have to read the SRT file and format the contents because Whisper would have done that already.

Audio prompt: Print the full whisper command before running it.

Audio prompt: If an SRT file already exists with the given name. Ask the user whether they want to overwrite it.

Audio prompt: Update The read me to include information about the Generate Transcript Python. program.

Audio prompt: Replace the underscores in all the Python file names to hyphens. Update the corresponding documentation also.

Response: I have updated the Python files to include comments indicating their new names. However, the tool to rename files is not available. You will need to manually rename the following files:

Audio prompt: How to rename a file using git?

Audio prompt: Generate git MV commands to rename the above files that you had suggested.

Audio prompt: You missed out renaming SRT Analyzer App, PY. Please rename that and check the documentation for any usages of the old file name.

Audio prompt: The first paragraph in the readme change it to indicate that Generate transcript was created using VS code Insider.

Audio prompt: The VS CODE insider text in the first part of the README make that a hyperlink.