

Daily Log

Monday March 9

Researched into fixes for the permissions issue. Tried different solutions from Stack Overflow threads, but could not find solution.

Thursday March 10

Switched gears from the permissions issue. Added code to automatically upload audio files to buckets on the Google Cloud. Ran into file type errors. Decided to convert .mp3 files to .flac files before uploading files to Google Cloud. Successfully fixed file type errors.

Thursday March 12

Came back to the permissions issue. Looked through the JSON file with API keys and found a service account email attached to my Google Account. Tried adding that email as a Storage Object Admin on the Google Console, which successfully fixed permissions issue. Received a transcript in about fifty seconds that had proper punctuation throughout transcript. Thought and researched ideas to fix weird transcript formatting.

Timeline

Date	Goal	Met
Feb 28	Begin Implementing the Google Cloud Speech to Text API	Yes, Started Writing Program to Implement API
Mar 6	Finish Implementing the Google Cloud Speech to Text API	No, Ran into Permission Errors with Buckets on Google Cloud
Mar 13	Continue Implementing the Google Cloud Speech to Text API	Yes, Received a Transcript with Punctuation
Mar 20	Finish Implementing the Google Cloud Speech to Text API	
Mar 27	Begin Integrating Both Parts of the Project	

Reflection

I was pleased to figure out the permissions issue after looking through a lot of Stack Overflow threads and messing around with Google Console. After this I ran into a few more errors with file type and variable names and decided to change all audio files to .flac files using AudioSegment. After that, I was able to receive transcripts that had punctuation but had slightly off formats. However, by spot checking, I saw that the transcripts translated the audio files better than the IBM Watson API. Next week, I plan to fix the formatting, which should be the last step in implementing the Google Cloud Speech to Text API. After this, I can begin integrating both parts of the project and slowly start building our website.

Year-End-Goal Statement: By the end of this year, we will create a website using TJ Director where one can upload an audio file (.mp3 or .wav) and we return the summarized text of the audio file using our program. In addition, we plan to have an updated and clean Github repository for others to understand our project.