

GUI: Create a GUI where our user can interact with the audio files provided or an uploaded file.

Upload Sound File: The user should be able to upload a sound file that they wish, as long as it is a .wav file.

Search for a sound file: Using the GUI, the user will be able to search an audio file based on name. They should be able to do this using the search bar.

Edit Options: Using the GUI, our user will be able to edit the sound files in many different ways. The user will be able to change the playback speed, crop, play the audio backwards, play a random sub snippet.

View Metadata: The user will be able to view the metadata of a sound file, including encoding, format, number of channels, sample rate, file size, duration.

Audio Visualization: The user will be able to see the progress of the audio.