

<b>Use Case Name</b>	Visualize a sound
Summary	The user can see the waveform of the currently selected sound
Rationale	Waveform visualization allows users to visually inspect the amplitude of audio signals over time, facilitating precise editing, quality control, and analysis of audio files. It eases navigation through audio content and provides accessibility features for users with visual impairments.
Users	All users
Preconditions	The user has the GUI open
Course of events	<ol style="list-style-type: none"> <li>1. The user selects a file in the file navigator</li> <li>2. Once a file is selected, the waveform for the audio file is displayed</li> <li>3. If the sound is played, a line on the waveform will indicate current position within the sound</li> </ol>
Exceptions	The audio is not compatible with the software
Alternative paths	<ol style="list-style-type: none"> <li>1. In step 3, the user can choose to edit the sound instead of playing it. In this case, dragging the cursor on the waveform will create a selection for cropping the sound</li> </ol>
Postconditions	The sound is no longer playing, and the GUI is open awaiting the user's next action

<b>Use Case Name</b>	View metadata
Summary	The user can view the metadata of an audio file, including encoding, format, number of channels, sample rate, file size, and duration
Rationale	Viewing the metadata of a sound enables users to access essential information about the audio file, which improves organization, categorization, and searchability of audio content. It also allows for well-informed decision-making when selecting or interacting with audio files.
Users	All users of the application
Preconditions	The GUI is open
Course of events	<ol style="list-style-type: none"> <li>1. The user selects a sound</li> <li>2. Beneath the waveform, all relevant metadata for the selected sound is displayed</li> </ol>
Exceptions	The software was not able to process the audio data, and it crashes or gives an error
Alternative paths	Will not be able to view the metadata
Postconditions	The GUI is open and awaiting the user's next action

<b>Use Case Name</b>	Upload an audio file
Summary	The user will be able to upload a file through the GUI.
Rationale	The user may want to edit an audio file of their choice. Through
Users	All Users
Preconditions	The user has access to the GUI The audio file is compatible with the software
Course of events	<ol style="list-style-type: none"> <li>1. The user clicks on the 'upload file' button</li> <li>2. A file explorer menu opens and the user selects the sound that they wish to upload</li> <li>3. The file is uploaded to the application and the user is now able to play and edit the sound</li> </ol>
Exceptions	<ul style="list-style-type: none"> <li>• The file uploaded is not a .wav file. In this case, the upload will fail an error message will appear asking the user to please only upload .wav files.</li> </ul>
Alternative paths	<ol style="list-style-type: none"> <li>1. In step 2, the user could select more than one file to upload. In this case, all files will be uploaded if they are the proper format</li> </ol>
Postconditions	The file is successfully uploaded and the user can play it or edit it