

Singing Data Labeling Tool

Milestone 2

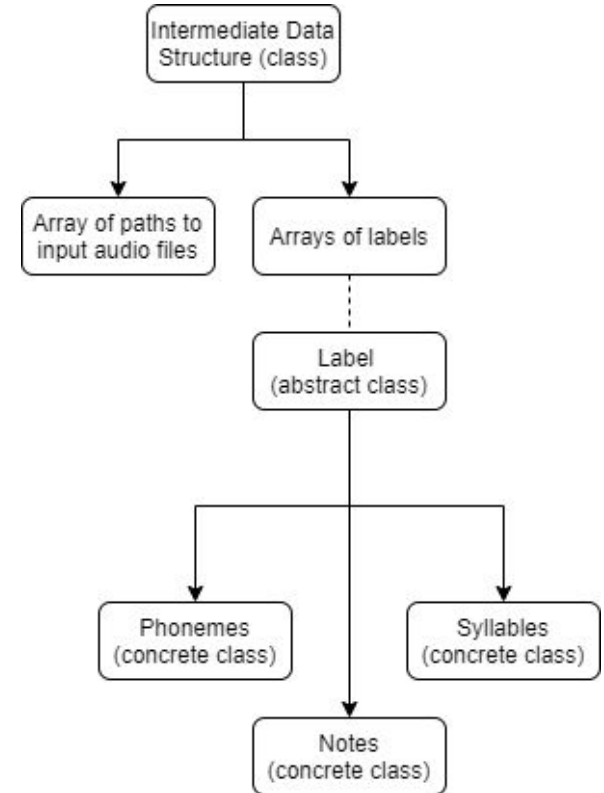
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Renamed Program

- Singing Data Labeling Tool -> Singing Phoneme Egonomic LabeLer (SPELL)

Intermediate Data Structure

- Implemented the Intermediate Data structure
- Loading of audio files into the data structure
- Checks on audio file validity
- Added Antlr v4 runtime as a sub library of the parser
- Generated parser from grammar



Build System

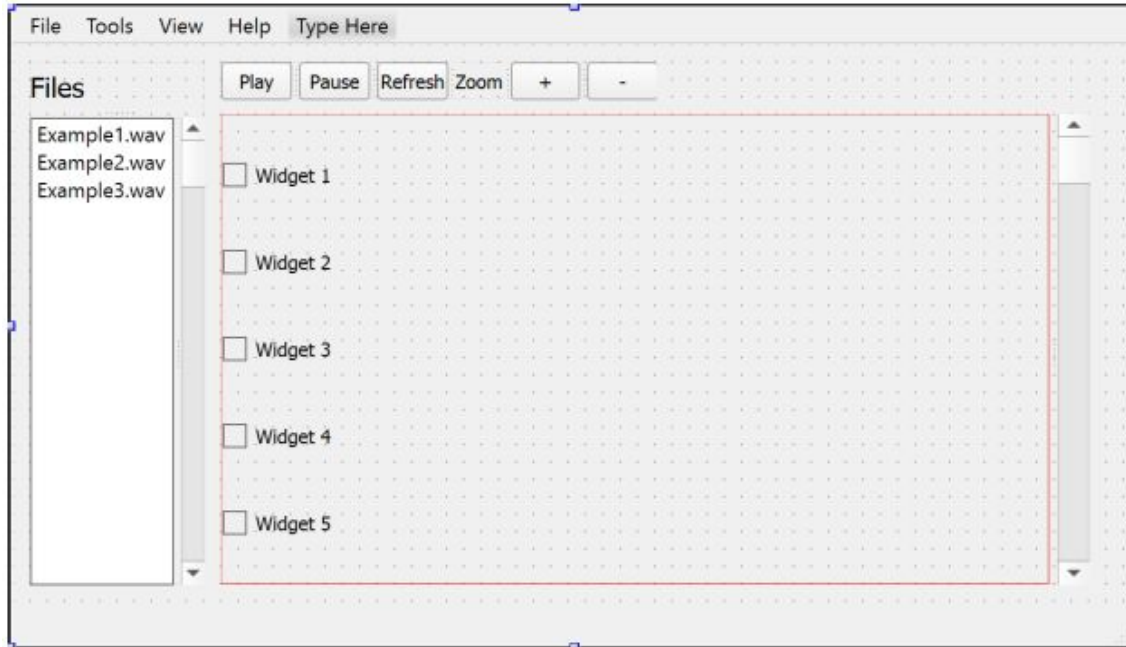
- Cmake
- Nested projects
- Auto install translations

Phoneme Detection

- Attempted to create singing specific model for CMU Sphinx
 - Scripts failed to operate correctly
- SHIRO is missing documentation on it's inputs
- Further research indicates that phoneme detection on singing is not very accurate in general
- Changing goals boundary detection and language tools
 - Onset detection of phonemes
 - Utility conversions between lyrics and phonemes
 - Conversions between phonemes and syllables

GUI

- Created demo that follows the design layout.



Milestone 3 Tasks

- Continue searching and testing models for boundary detection
- Display waveform and add ability to add markers
- Save output of parser into intermediate data structure
- Create output template window and integrate with parser