Canada Panda Got Talent Music Mixer

Dev Notes

What are we going to be creating?

Our idea will be the panda show, so our image will be the competition on stage of the panda contestant with the musical instrument he can play (the sound we will use) .

There will be 6 characters corresponding to 6 sounds: Chinese ukulele, violin, drum, trumpet, piano and saxophone.

How will it work?

Each musical instrument icon will be a melody. Those icons show the musical instruments that artist Panda will perform. Users can select one of six musical instruments (ukulele, violin, drums, piano, trumpet, saxophone), then drag and drop it to one of the stage stands.

When the user drops an instrument onto the stage, the Panda artist will appear, use the instrument and play the corresponding melody (up to 3 instruments possible).

Each instrument corresponds to a melody, so users can creatively combine existing melodies together and ask artist Panda to perform.

Besides performance, users will have a customizable menu (pause, play, stop). The stop button will stop the melody and reset each melody to the beginning, the play button will start playing the music even if it has already started or pause with the pause button. Along with that, users also have 2 up and down buttons to adjust the volume for each melody being performed. We also created a unlike image icon to mute a sound being performed on stage.

What will we need?

We will implement two main functions: drag & drop - play audio files and adjust their properties (loop, mute, pause, and play).

The drag and drop function allows an element to be dragged (by clicking and holding the mouse button) and dropped (by releasing the mouse button) into a container. We need to know which element the user is dragging and ensure that no other element is dropped into an occupied container.

The second function is to play audio files in the browser and adjust their properties, including looping, muting, pausing, and playing.

Resources:

Based on the issues mentioned above, we have started our initial searches and research on what we need to implement to complete the music mixer project as planned. Below are the websites we have found and studied to support the completion of the product:

- Drag and drop functionality:

  https://developer.mozilla.org/en-US/docs/Web/API/HTML_Drag_and_Drop_API

  https://www.tutorialspoint.com/html/html_drag_drop_api.htm

  https://javascript.info/mouse-drag-and-drop

- Audio files:

  https://pixabay.com/sound-effects/

Task delegation:

KingYin Sham:

- Choose the Panda character theme for the project.
- Create the repo and set up folder structure
- Audio: find audio on website
- Logo: create logo
- Music mixer styles: Typography – Color Palette - Artwork

GiaKhang Ho:

- Dev notes
- Wireframe: create the wireframe
- Choose the music theater background for the project

Together:

- Selection of JS Functions to Implement
- Decision on Style and Theme for the Project