PUI - FP4

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Part I: DESCRIPTION

Music has the potential to boost our concentration, mindset, and performance. Numerous studies indicate that background music can improve cognitive task performance, whether it be spatial or verbal abilities. Personally, I find instrumental music to be a constant companion during assignments and daily chores. Motivated by this insight, I decided to create a website called "*Museful Mindscape*": designed to empower users to curate their listening experience by selecting the mood they are in or the ambiance they desire. It provides a seamless background music experience, fostering an environment conducive to productivity and focus while engaging in various tasks.

On my website, I've dedicated a section to illustrate the relationship between music and productivity, reinforcing the idea that music can significantly enhance one's efficiency. As users enter the website, I've incorporated a captivating color animation at the beginning, creating an immersive experience that evokes the sensation of stepping into a musical realm. Each color employed corresponds to specific moods, carefully selected through research on color psychology. Moreover, I've integrated dynamic elements into the music player page, where the graphics rotate with the playing music.

These animations and color themes collectively contribute to making the website not only visually appealing but also engaging. The primary audience for this platform is individuals who work on their desktops, offering them the opportunity to seamlessly integrate music into their workflow.

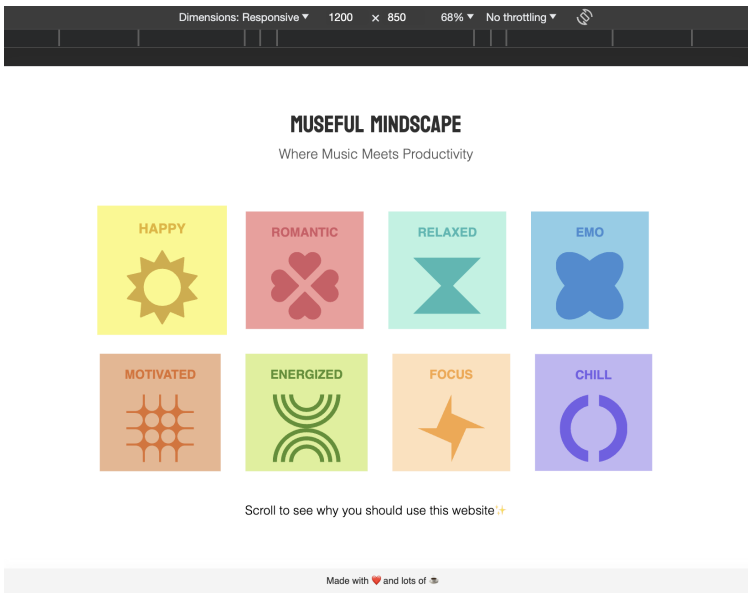
By infusing the website with vibrant colors, animations, and interactive features, I've aimed to create an interesting and enjoyable platform that aligns with the preferences and needs of those seeking a harmonious blend of music and productivity during their work tasks.

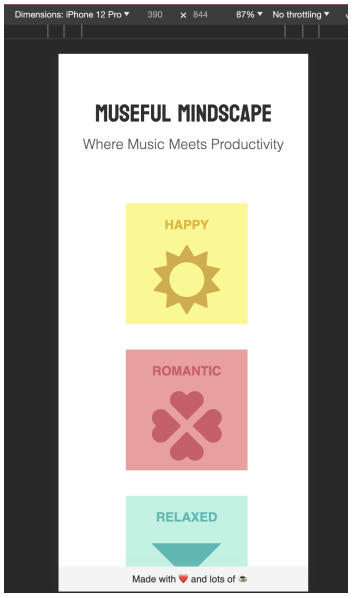
Part II: INTERACTION WITH WEBSITE

- Open the Website
- Wait for the main animation to conclude (5 seconds)
- Choose the mood for the music
    - On the same page, you can scroll to the "How Music Helps Productivity" section
    - Read or listen via narration using the “Speak” Button (if it doesn’t work, try pressing button again, works differently on different browsers, preferred it Chrome)
- Listen to music based on the selected mood (wait for the music to load, it takes time)
    - Pause and play the song
    - Use the forward and backward step buttons to move forward or backward by 10 seconds
- Switch between different moods through navigation bar for a customizable experience

<u>Check Website’s Responsiveness on</u>:

1. **Desktop** : 1280 x 950
2. **iPhone 12 Pro** : 390 x 844





Part III: TOOLS USED

1. **Howler JS**
    - I chose to use the Howler JS Audio library to ease audio management on my website
    - I integrated controls for pausing and playing the audio and leveraged to retrieve the duration of the music track, and to calculate and display the remaining time for the music to conclude.
    - It is the main library employed for importing and playing songs on the website

2. **Anime JS**
    - I chose to use the Anime JS library to create smooth and expressive animations on the landing page.
    - Through the library I defined animation timelines for background colors, controlled opacity of text, and incorporated smooth transitions for the animation. I referred to “Codepen.io” to learn more about its implementation.
    - Integration of Anime.js adds a visually dynamic element to my website, creating a “musical atmosphere”.

3. **Web Speech API**
    - I chose to integrate the Web Speech API to improve the accessibility by providing a text-to-speech feature. I used it to cater to users with different needs, such as those with visual impairments or those who prefer auditory content consumption.
    - Implemented the Web Speech API to dynamically convert text content from a designated HTML element into spoken language. Through event listeners and controls, users can start, pause, resume, and stop the speech synthesis.
    - Integration of this API adds a valuable accessibility feature to my website. Users can choose to listen to the text content, providing an alternative option.

Part IV: ITERATIONS

My primary iterations focused on refining the UI design of my website.

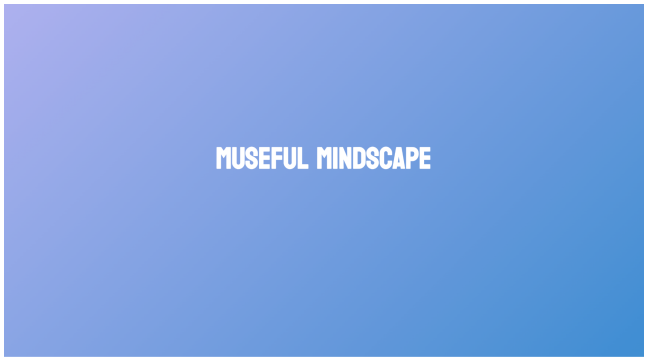
- After receiving feedback from classmates on two design alternatives, I chose the light color iteration for implementation.
- Additionally, based on suggestions, I made adjustments to the music player interface, opting for a direct mood selection rather than a dropdown menu.
- The colors that I had chosen before in my UI, had low contrast and failed the accessibility. I changed the color of all the text colors to pass the accessibility tests.

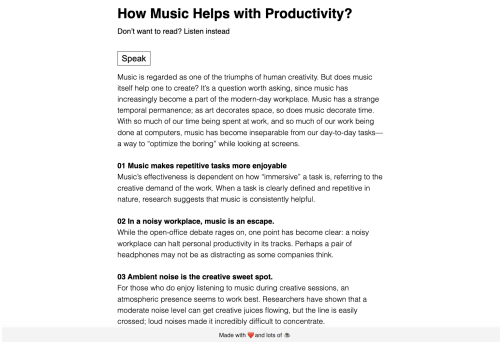
Part V: CHALLENGES

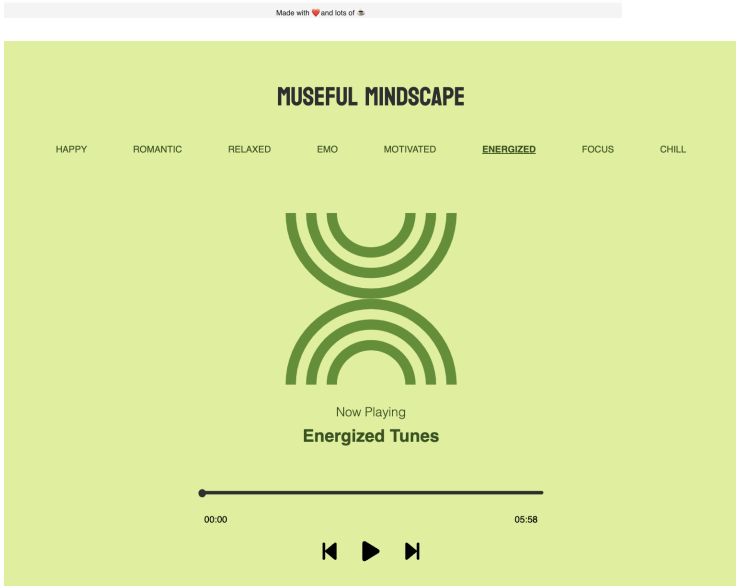
- In this project, my primary challenge was implementing song playback on the website. While initially considering the Spotify API for importing songs, I encountered difficulties in its integration. Turning to YouTube tutorials, I discovered Howler JS as a better solution.
- Also, in previous assignments, clear steps were given on how to approach the assignments, but in this project, we had to figure out our own series of steps to achieve a goal which was a challenge.

Appendix:

Screenshots from Final Website:







Screenshot from Wave test: