

MUSIC BOX!!!

Josh + Minyoung

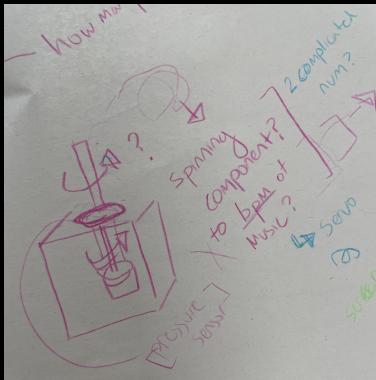
CONCEPT



The idea behind creating music box:

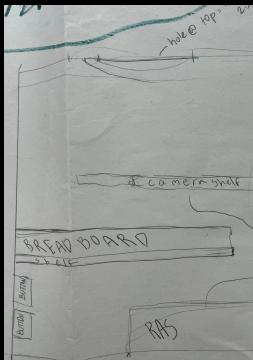
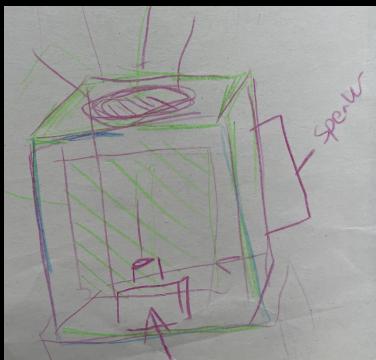
- replicates the traditional mixtape format in a new innovative way!
- mimics technology used in nintendo amiibo system to create a playful and physical dynamic with the music being listened to
- cute gift
- jukebox/jewelry music box inspo

PLANNING

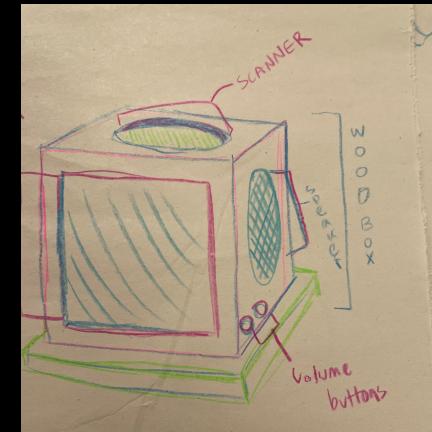


Ideas thrown around:

- Having a spinning component matching the beat
- Lights to match the music
- Shelves inside of box to hold up the system
- Scannable spotify codes



FINAL SKETCH ->

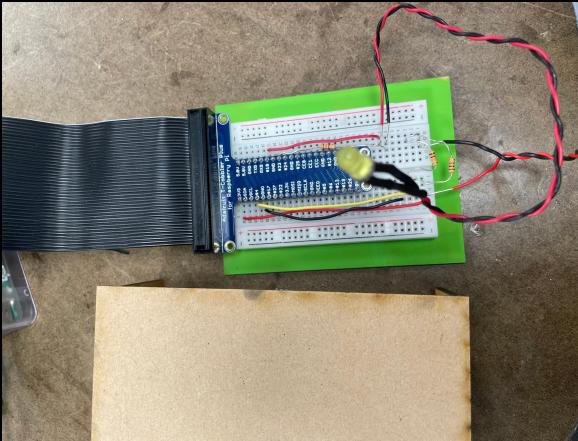


ISSUES...

- Spotify code uses a specific set of mechanisms (different from QR codes) that made it hard to use
- Spinning + LED visual system for the music made the project more complicated for the time frame we had and also had potential to make the project look messy.
- Discovering that a box might not be the best structure for this project?
- Both of us are freshmen + never used raspberry pi
- Crafting took longer than expected
- Struggle with pairing openCV to raspberrypi
- Youtube video autoplay issue
- Sensor broke at a crucial moment :(



WORKING ON IT...



Final Product



limitations + what we would do next time

- Time
 - Laser cutting took a lot longer than we thought it would
 - Learning how to use raspi
- Raspi
 - Things would stop working at random times
 - Raspi is slow when using browser and openCV
- Wifi
 - Loading videos is very slow

Image Credits

<https://spotifycodes.com/>

<https://www.lenox.com/products/childhood-memories-musical-jewelry-box>

<https://wurlitzer-shop.de/en/shop/rock-ola-jukeboxes/jukebox-nostalgic-bubbler-100-cd-black-satin/>

<https://www.shutterstock.com/image-vector/emoticon-looking-raising-hands-shouting-why-444822673>