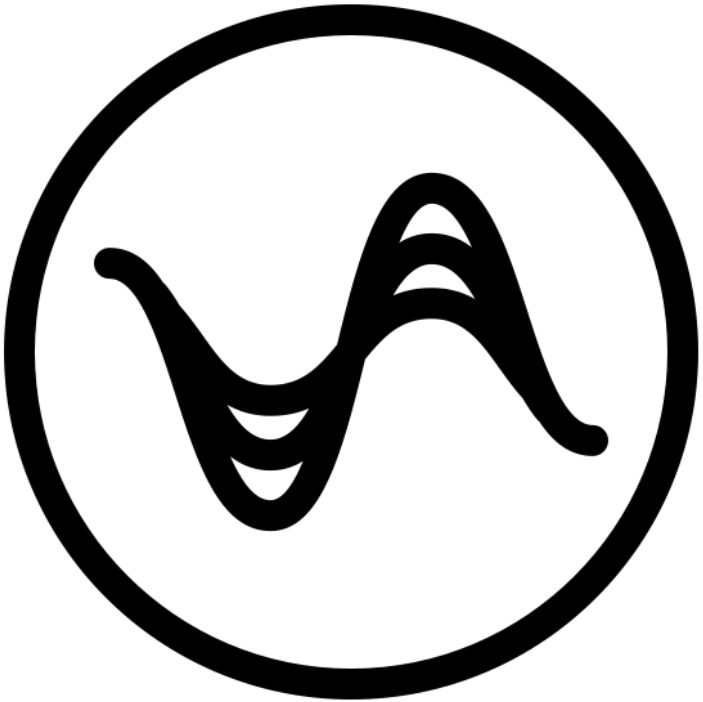
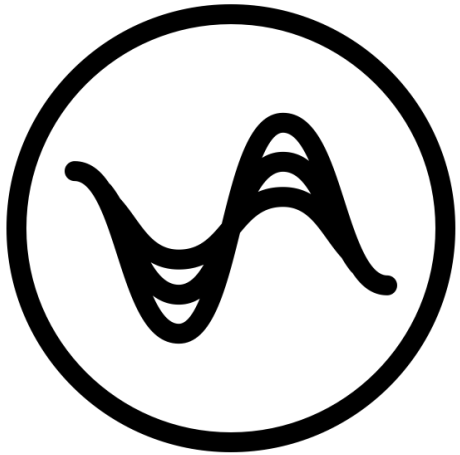


Resonance

Music, together.

Christina Stanfield
Gerard Gaimari
Trevor Alexander

Problem



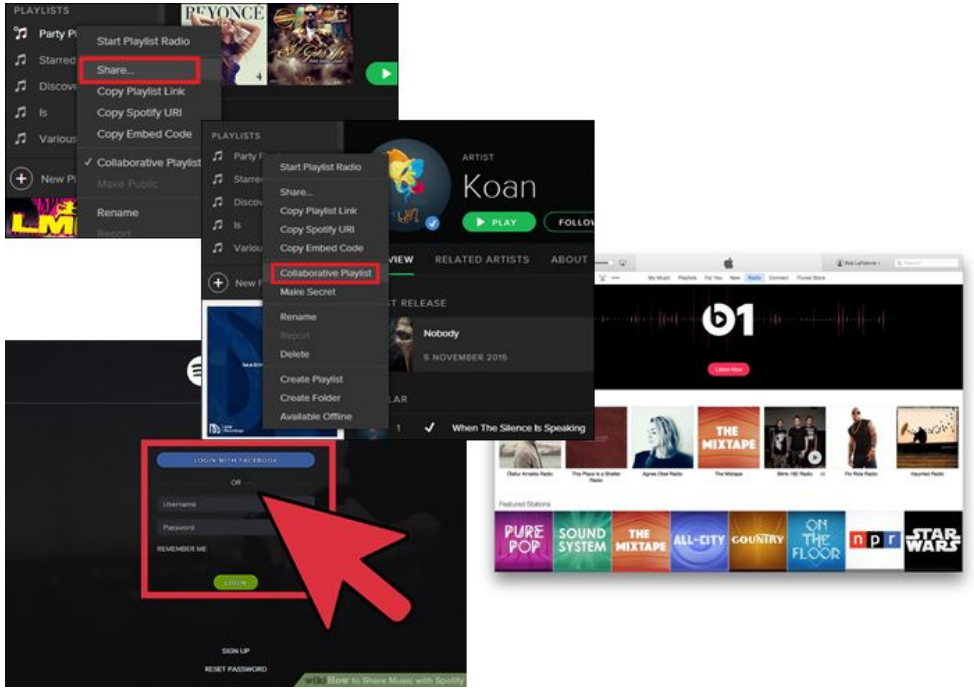
“Who’s on aux?”

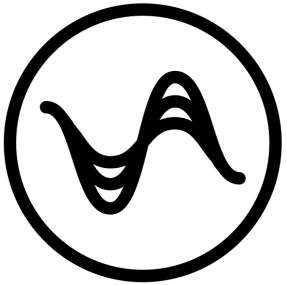
“I don’t want to play a bad song.”

“Just put on a mix.”

Current Solutions:

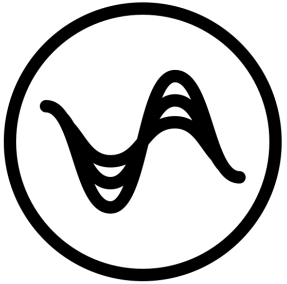
→ Shared music
→ Social logins
→ Public feedback
→ Streaming radio





Goal

Make group music selection & feedback easier for students in a creative work session.

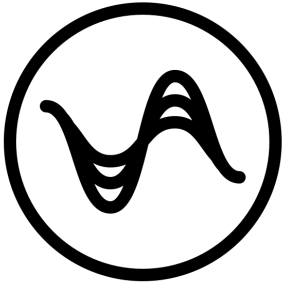


Difficulties of Group Decision Making

Time consuming

Not always “optimal”

Distracting

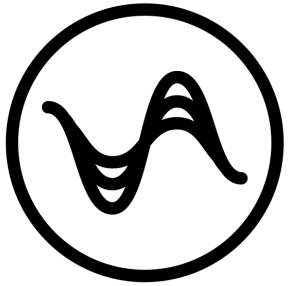


Importance of Music

Enhances productivity & creativity

Improves collaboration

Diversity



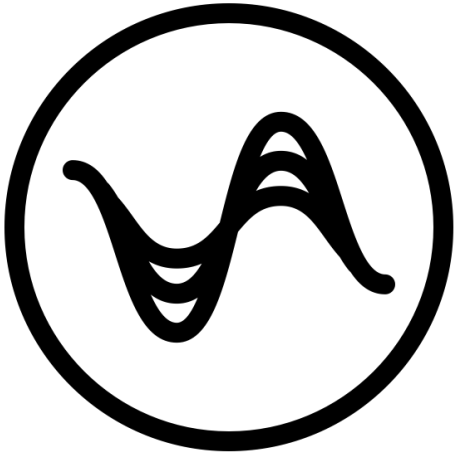
User Research (Interviews)

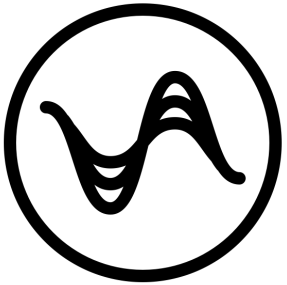
Explore different environments and users

Narrow target users

Consider current solutions

Paper Prototype





Initial Design

Physical Device

Host Application

Guest Widget

Dynamically Selecting Music

Task 1

- Initial selection of songs
- Creating queue using feedback

Physical Device

Dynamically Selecting Music

Task 1

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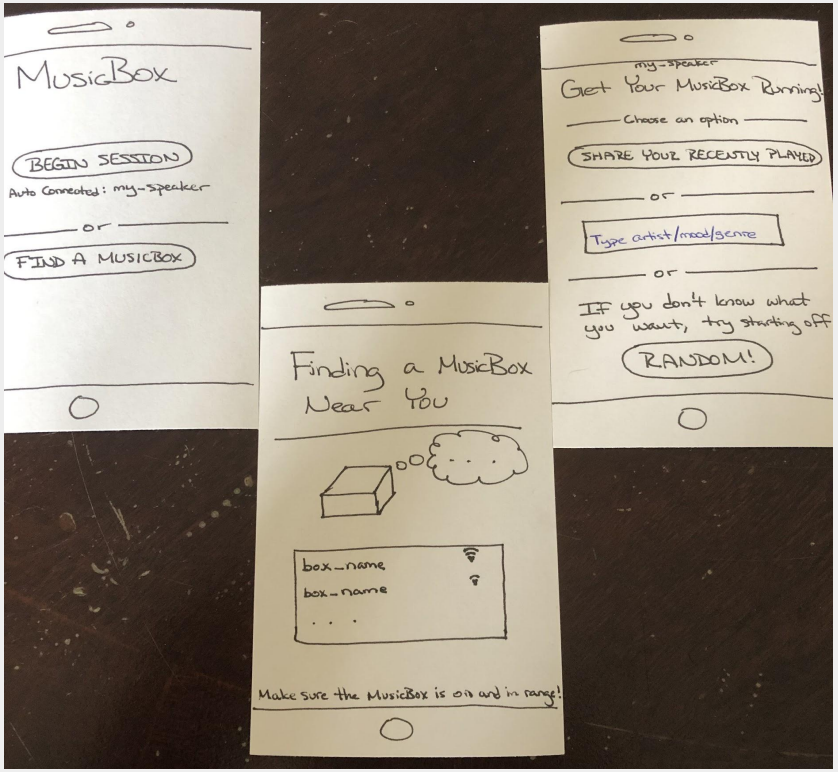
- Creating queue using feedback

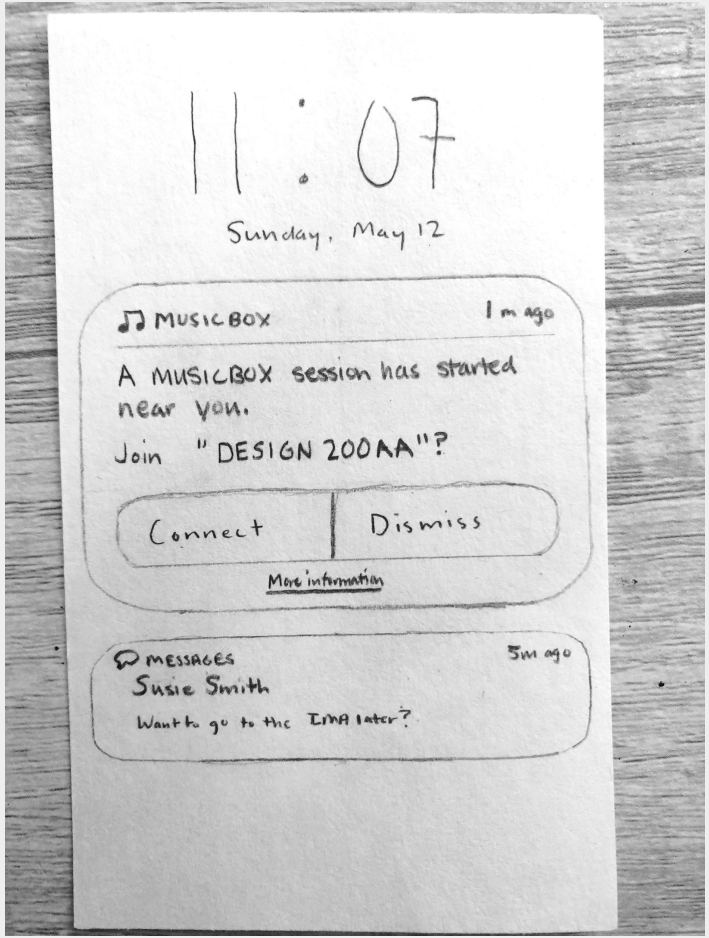


Host Set-Up

Dynamically Selecting Music

Task 1

- Initial selection of songs
- Creating queue using feedback

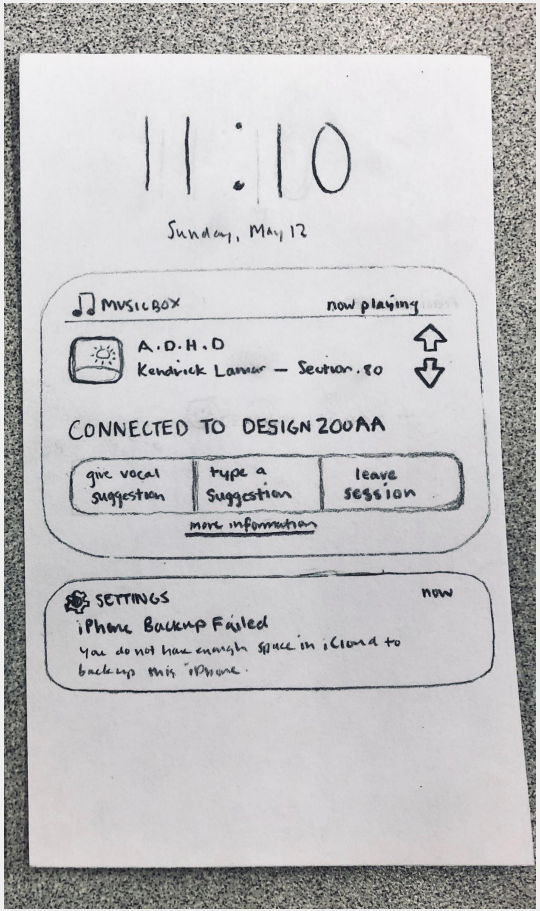


Guest Connection

Providing Feedback

Task 2

- Non-disruptive, discrete
- Music is representative of group preferences

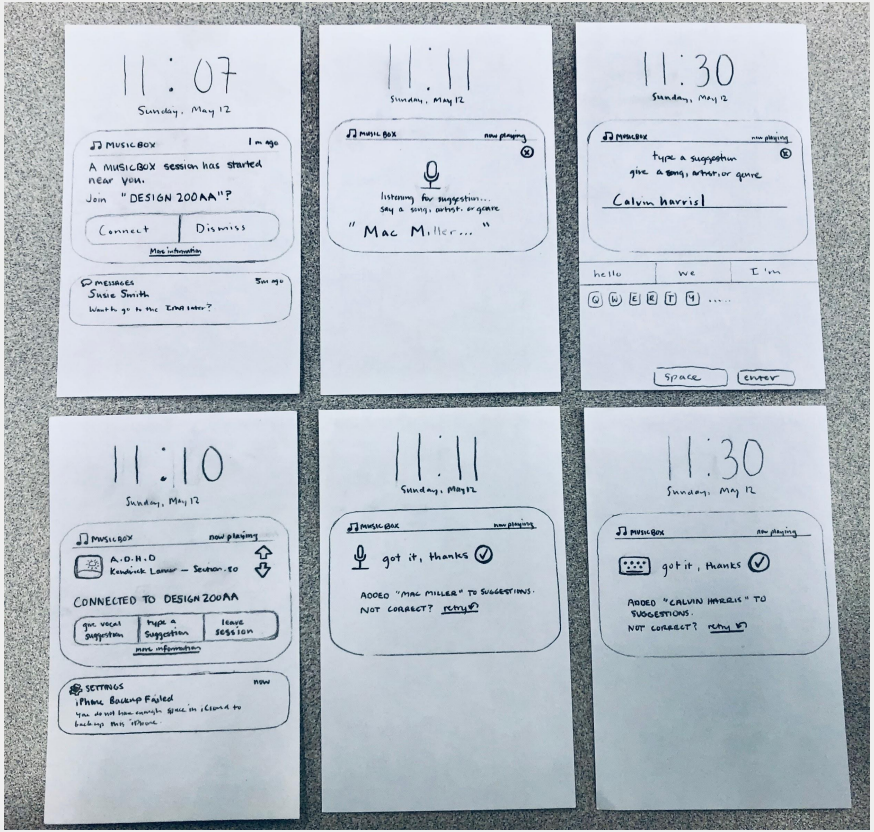


Upvote/Downvote Feedback

Providing Feedback

Task 2

- Non-disruptive, discrete
- Music is representative of group preferences

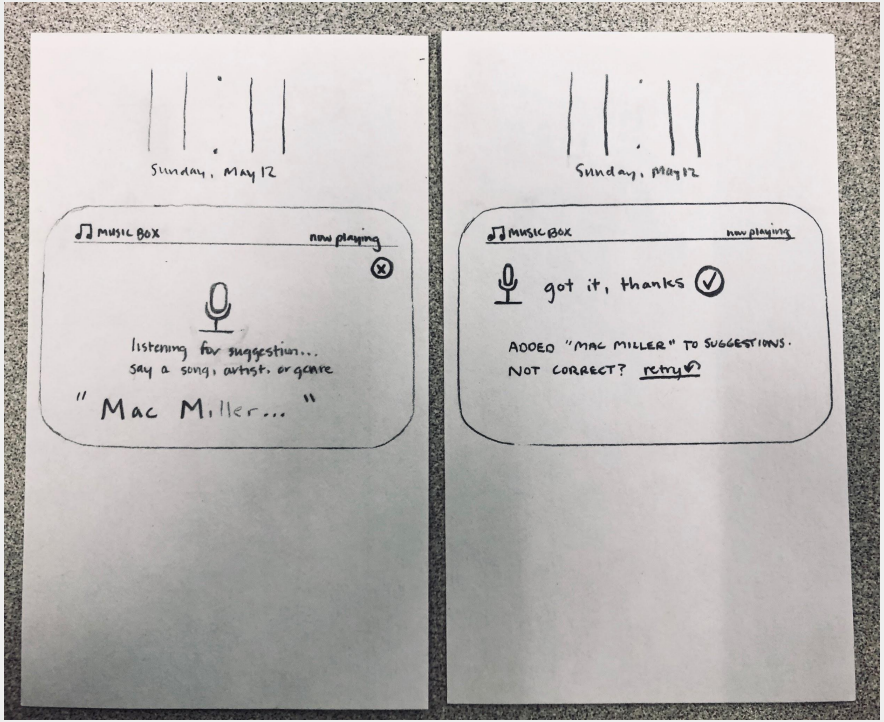


Typed and Vocal Suggestions

Providing Feedback

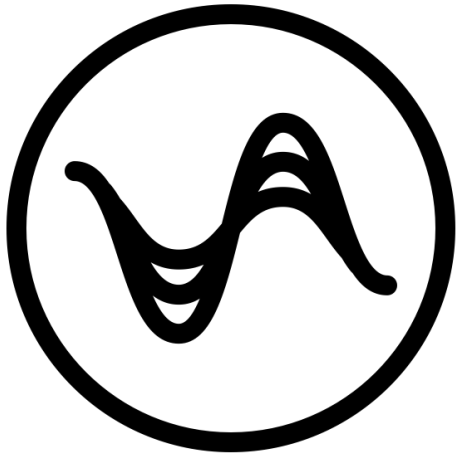
Task 2

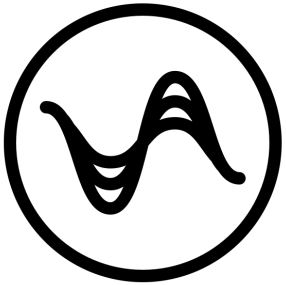
- Non-disruptive, discrete
- Music is representative of group preferences



Vocal Suggestion

Testing



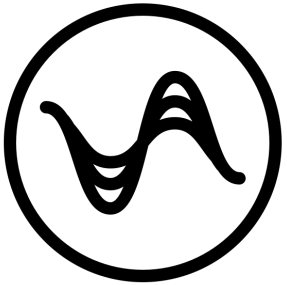


Heuristic Evaluations

Aesthetic and Minimalist Design of Device

Match between system and the real world

Interface consistency and standards



Usability Tests

Users from target demographic

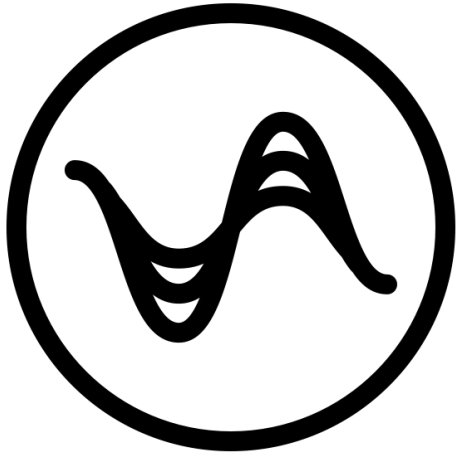
Conducted in natural environments with roleplay elements

Takeaways:

- Clarify host onboarding and controls
- Clarify guest voting options
- Allow host to see more of system state
- Make physical device setup more obvious

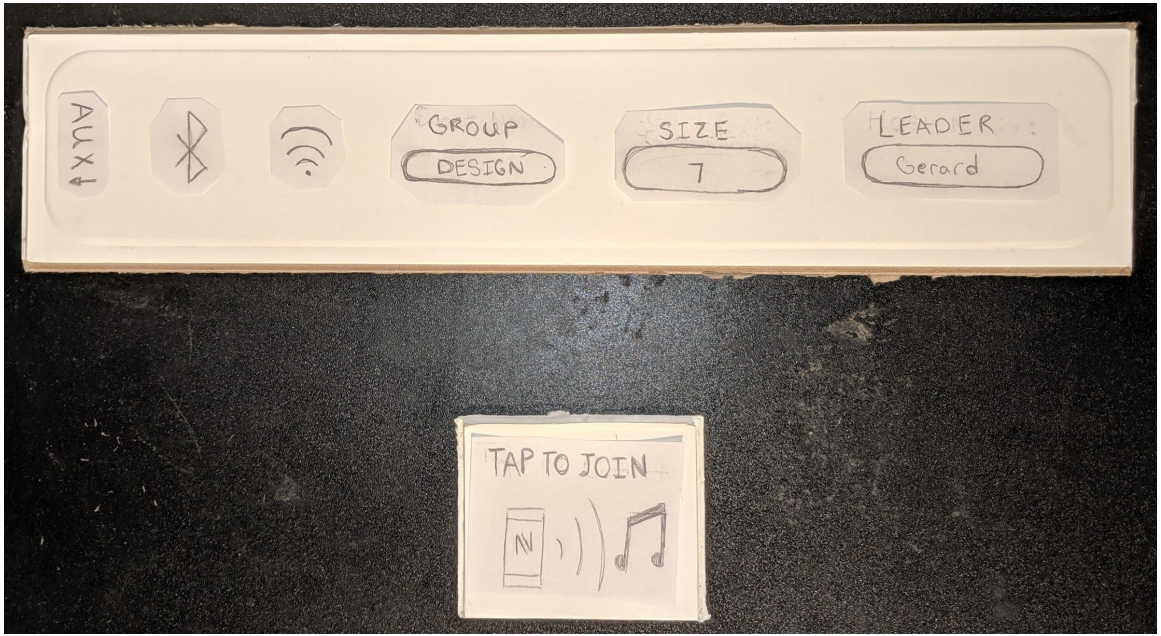
Final Paper Prototype

Iterating the design



Device

Differentiate between host & guest roles.



Device

Create interactions which are responsive and intuitive.

Device

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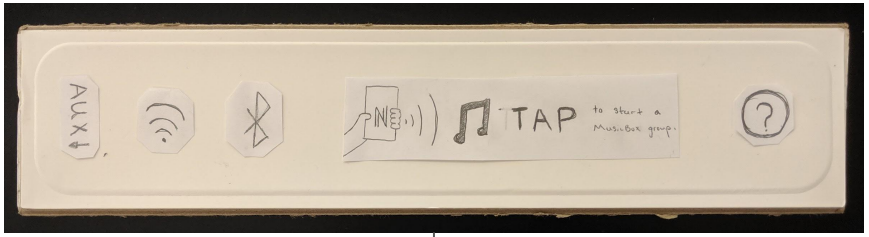
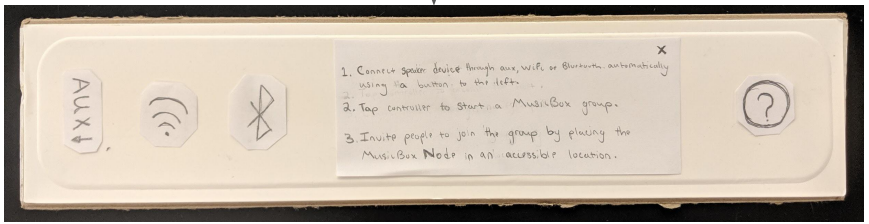
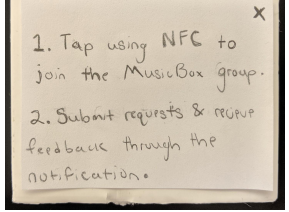


[tap help]





Device

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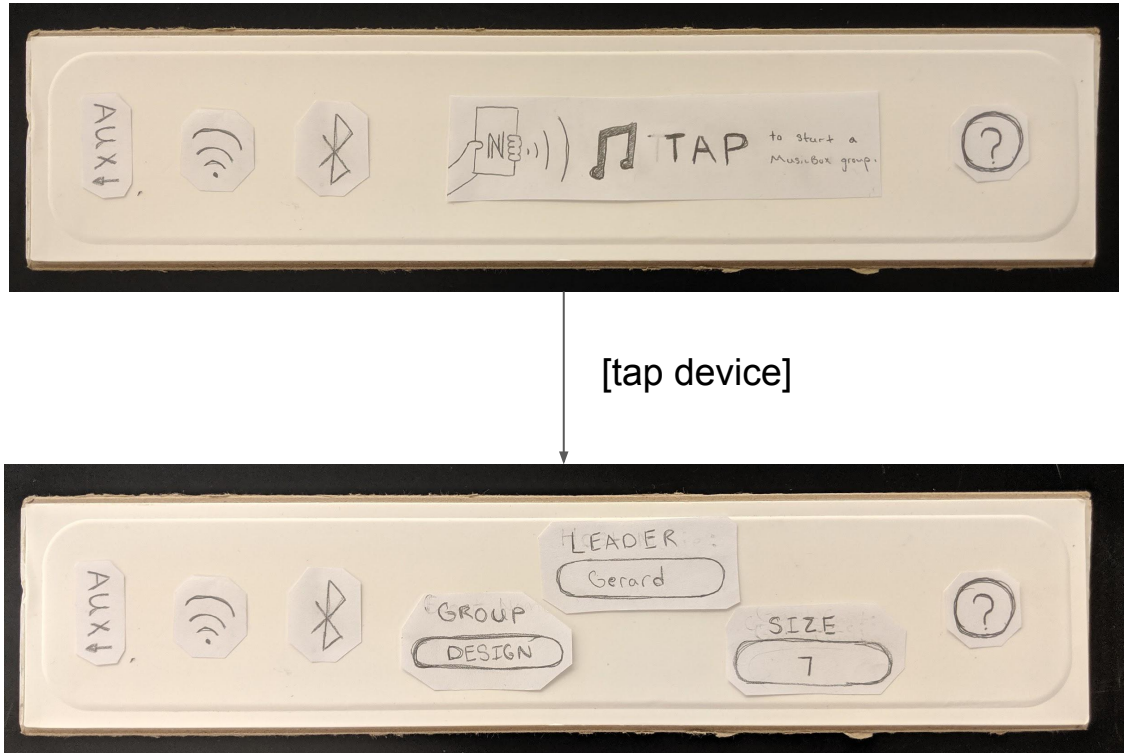
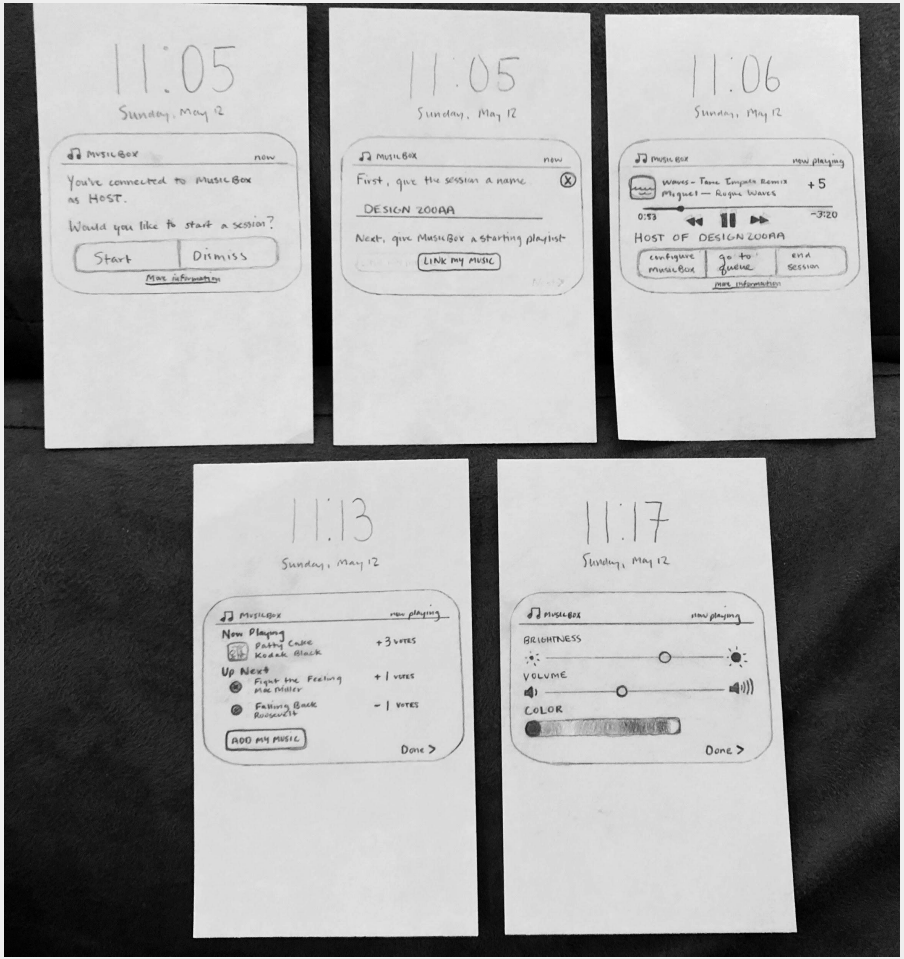


Host Interface

- Match to guest interface
- Simplify onboarding process
- Additional controls and state view



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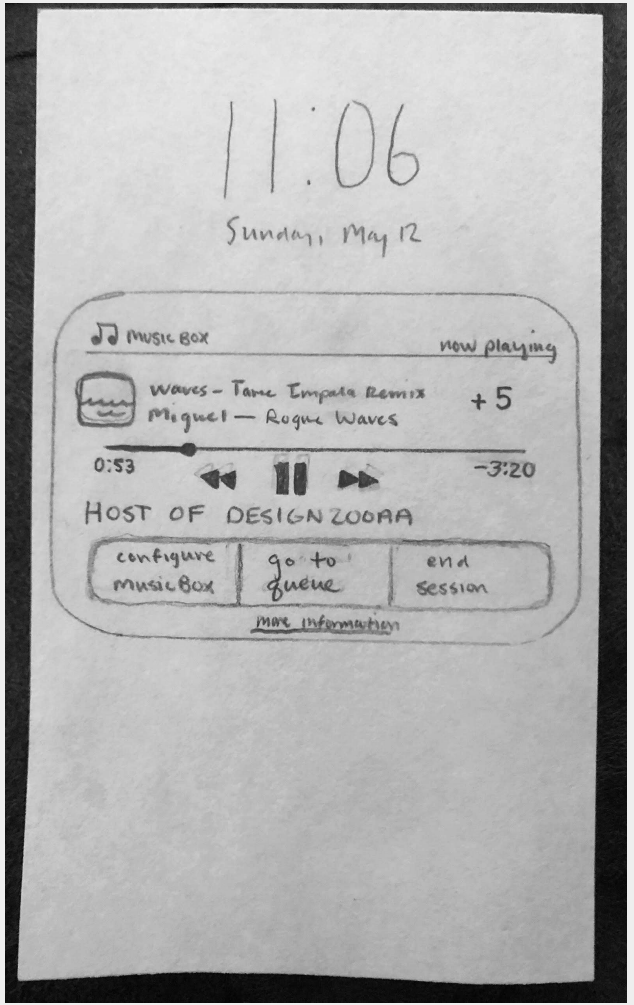

Host Interface

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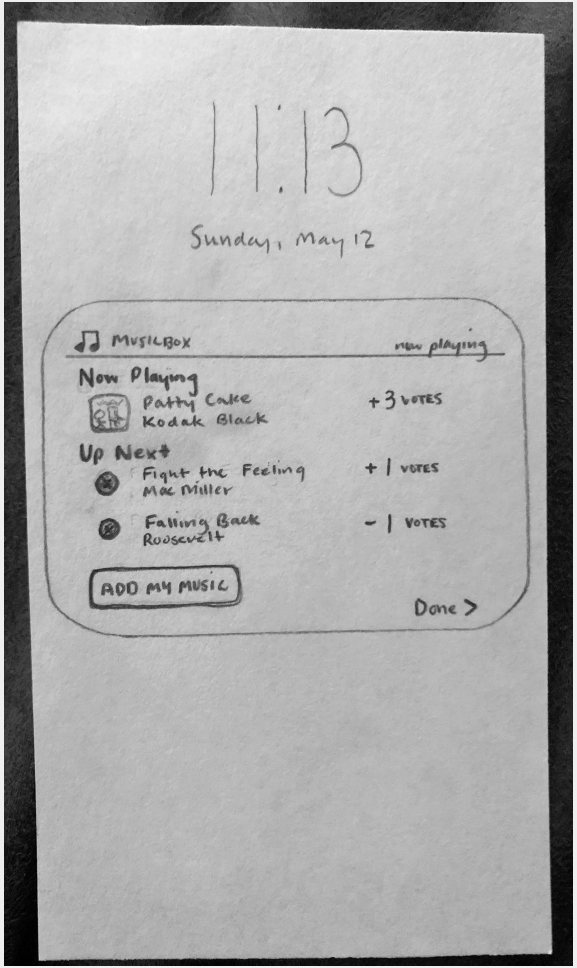
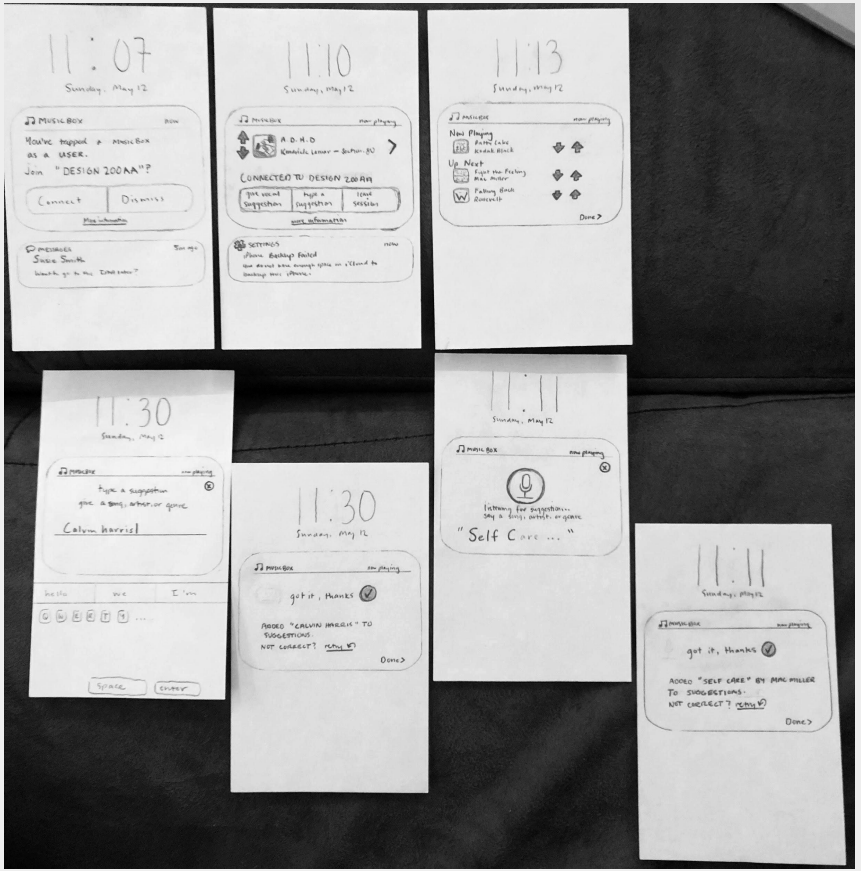


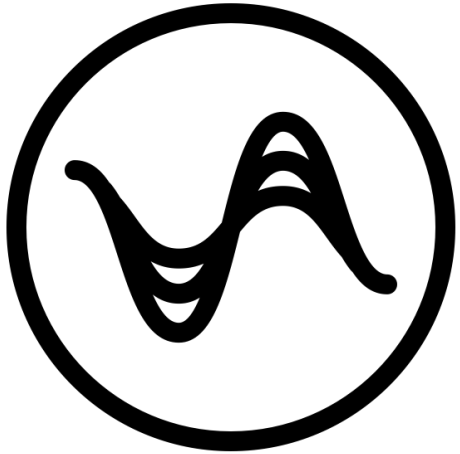
Guest Interface

- Cosmetic changes to enhance the minimalistic design
- Clarify upvotes and downvotes by color-coding



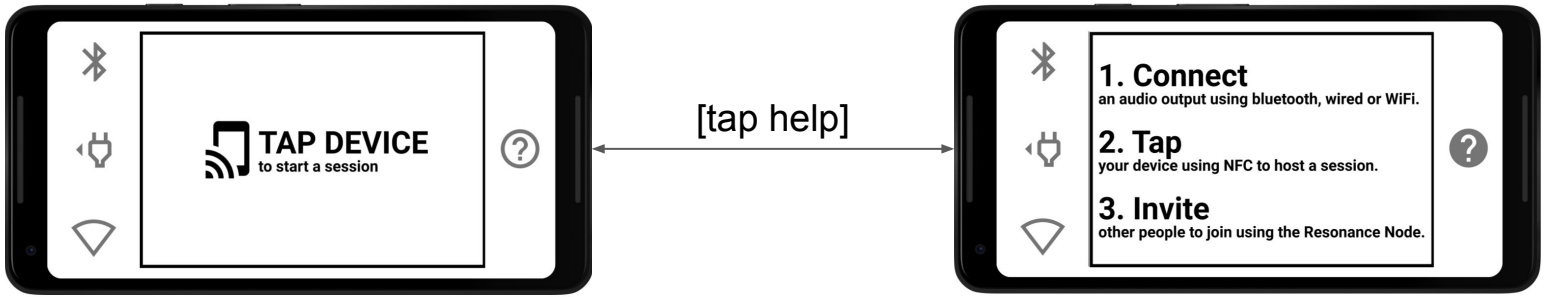
Digital Mockup

Getting the design right

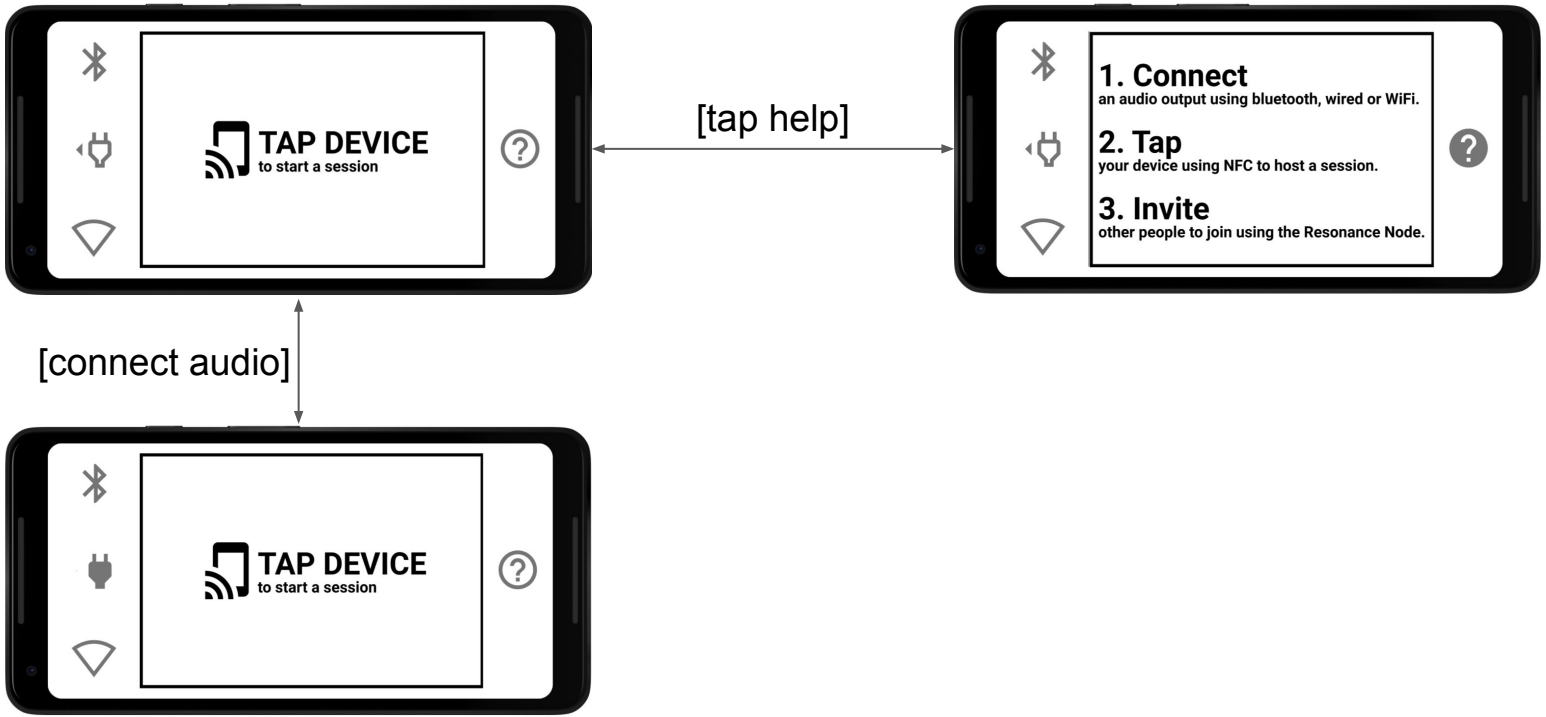


Host Controller

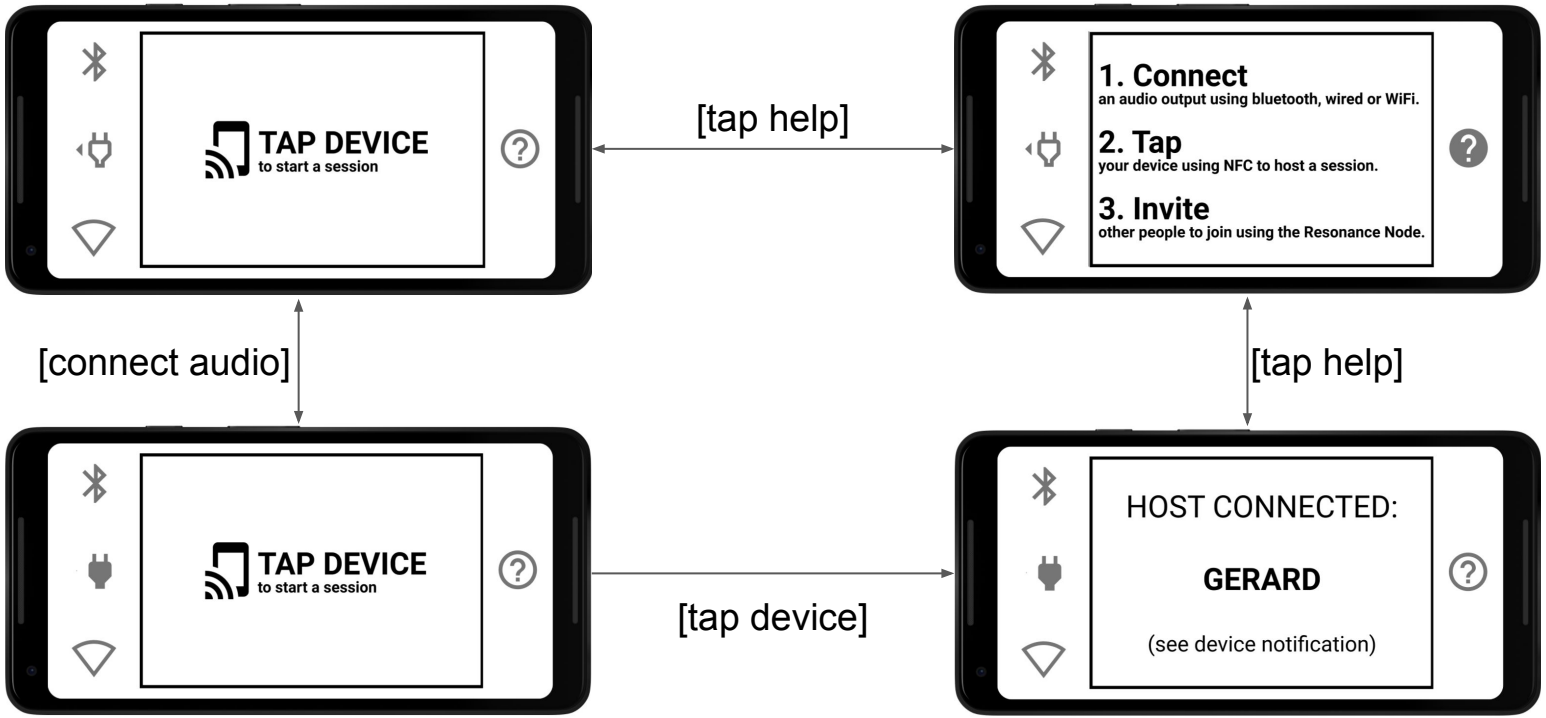
Built-in help



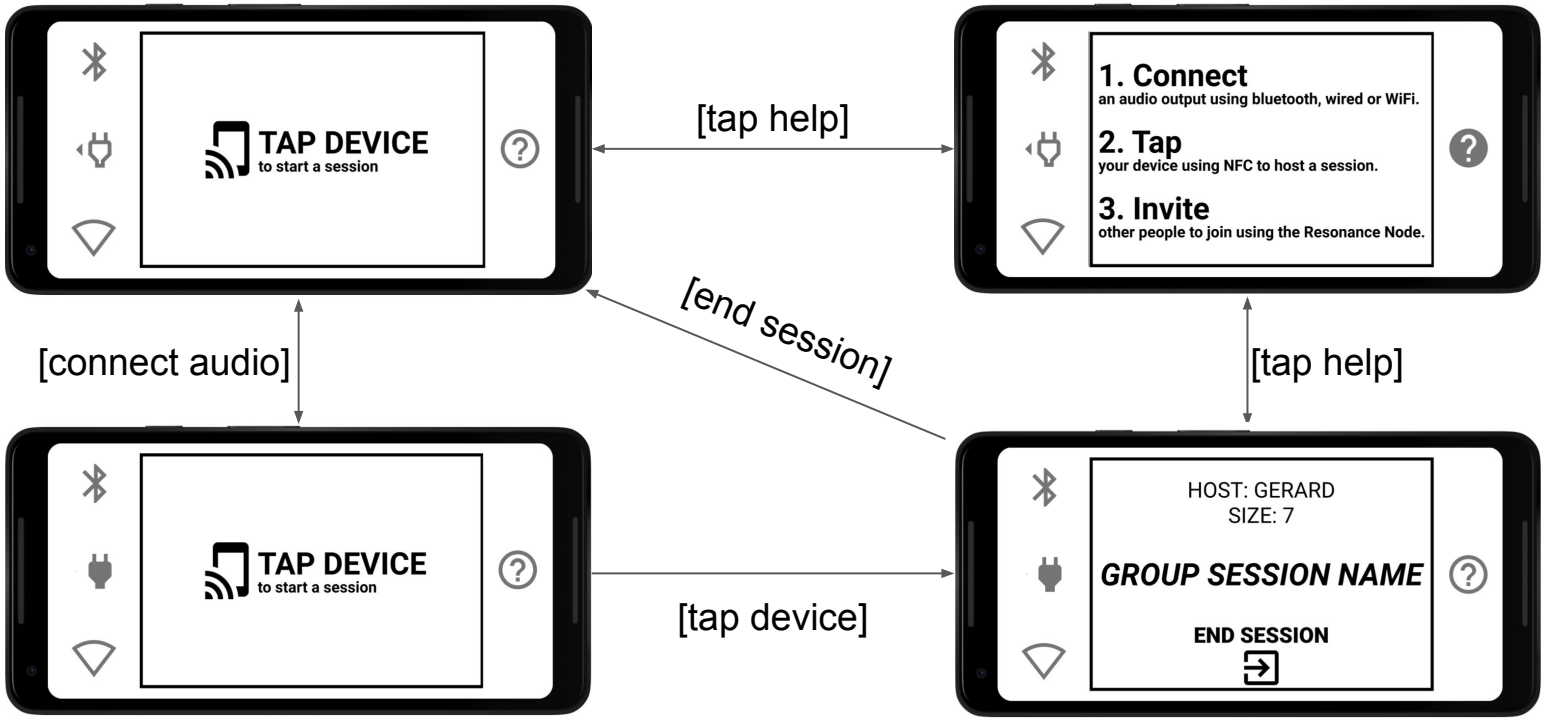
Connect any audio output



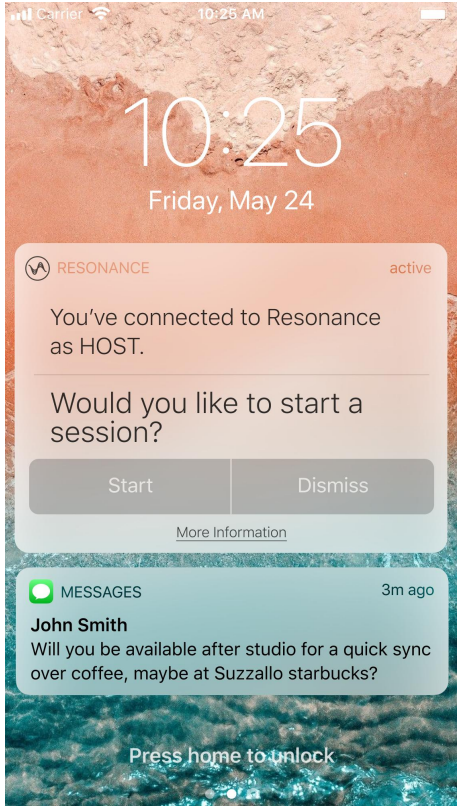
Tap a mobile device

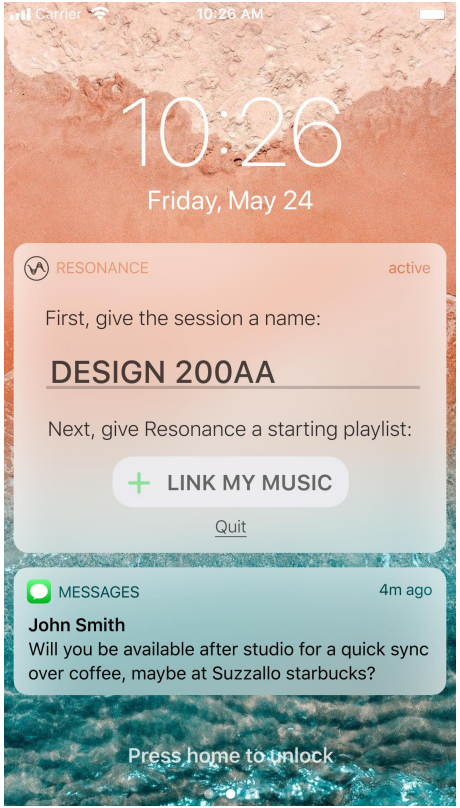


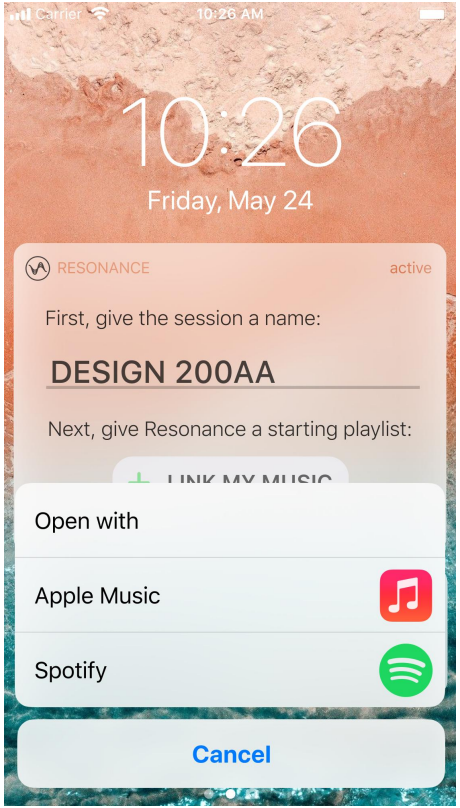
Monitor the session



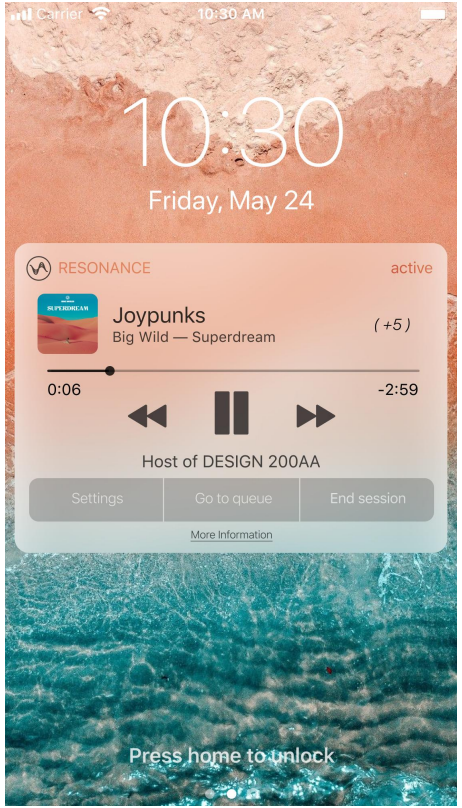
Host Onboarding

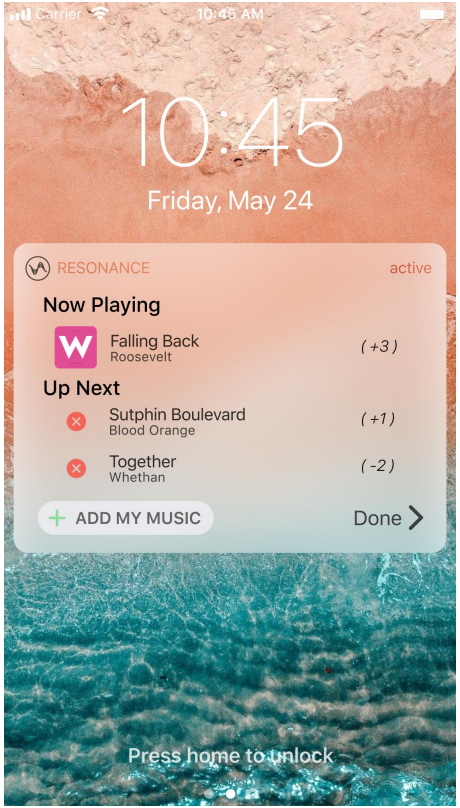


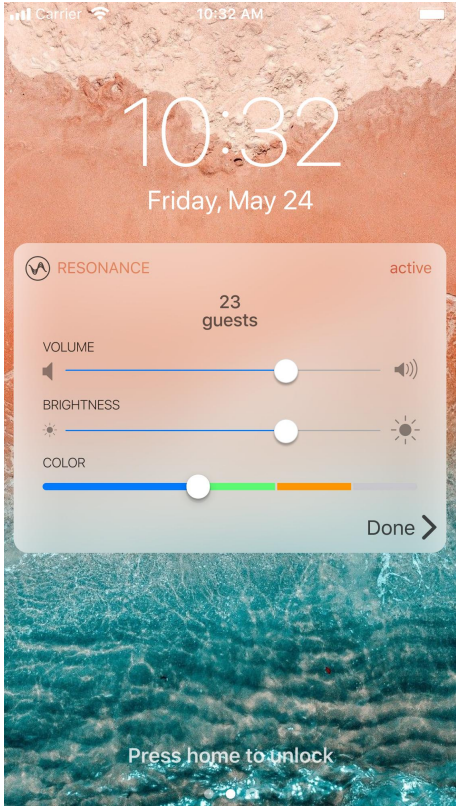




Host Controls

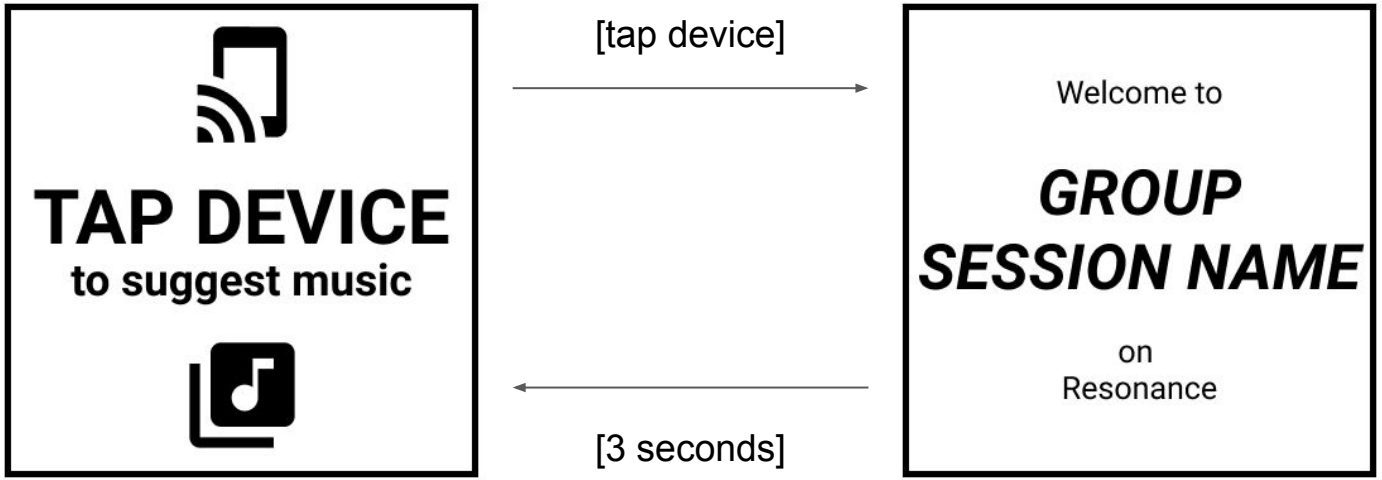






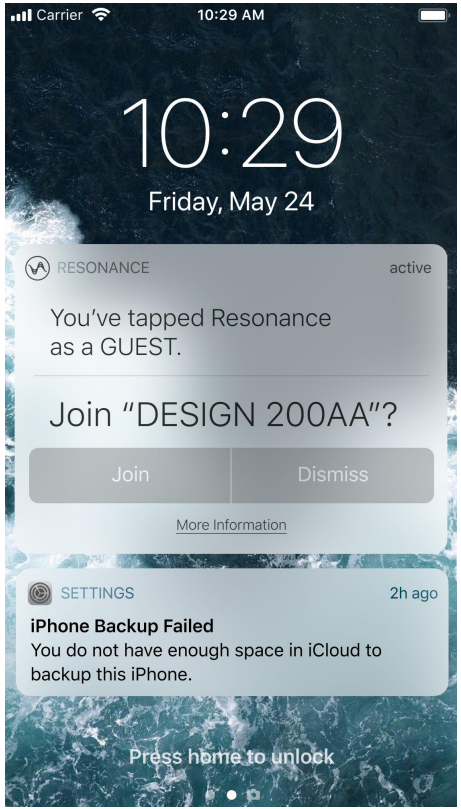
Guest Node

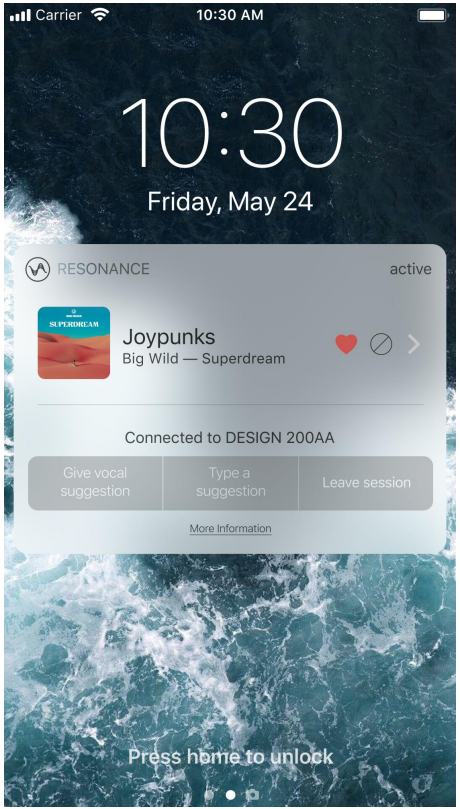
Tap to join

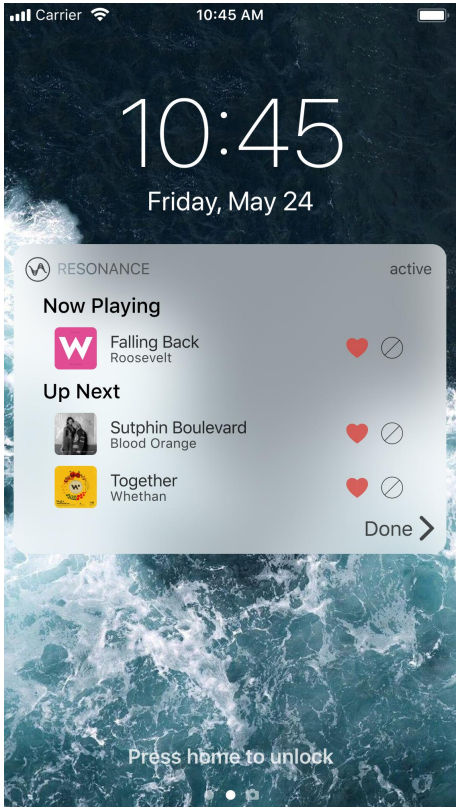

TAP DEVICE
to suggest music
[tap device]
[3 seconds]
Welcome to
GROUP SESSION NAME
on
Resonance

Scale

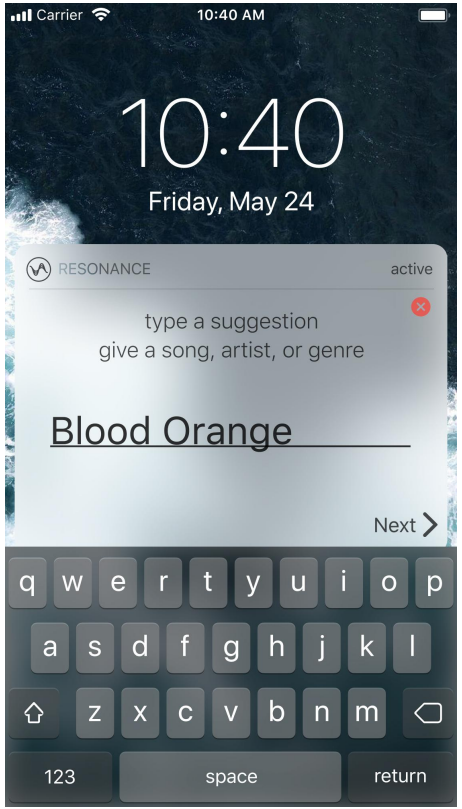
Guest Overview

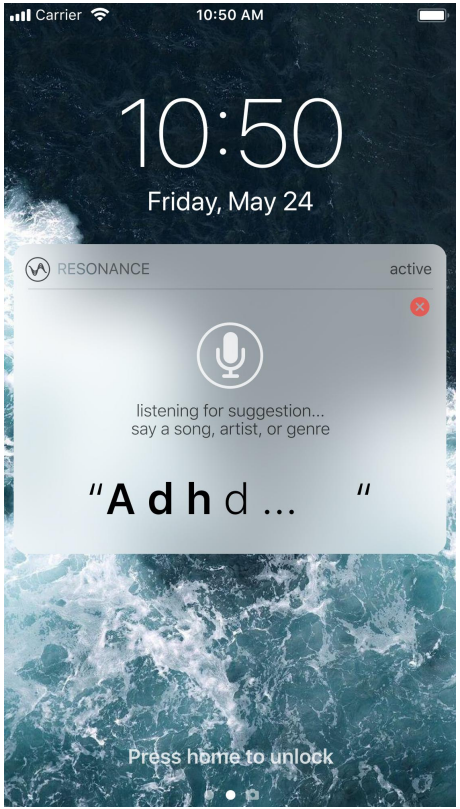


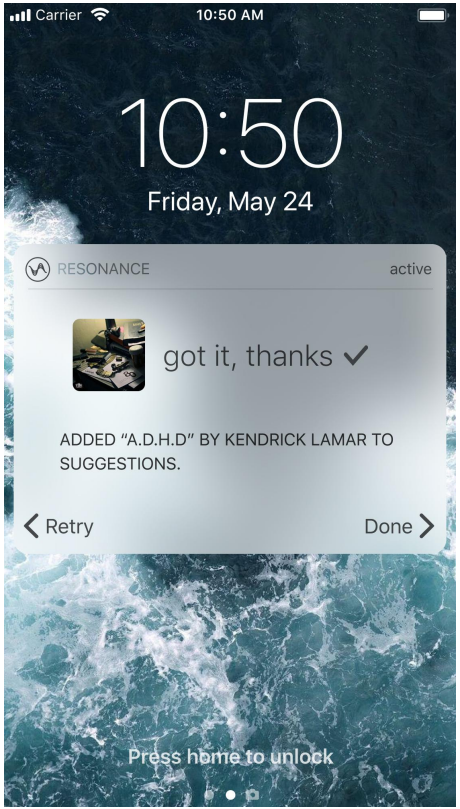




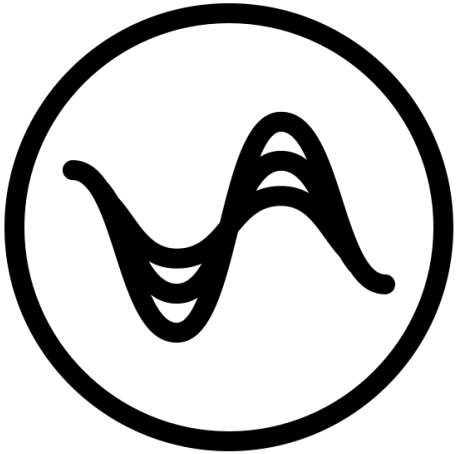
Guest Suggestions

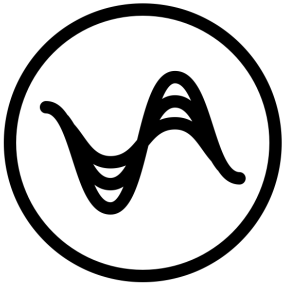






Summary





Retrospect

Design → experience.

Narrowing user group enabled minimal design.

Generalizing to secondary users: **everyone.**

Thank you! Questions?