# Wavelength
# Mid-Way Presentation

Team 2: Connor, Corbin, Sebastian, Steven

# Our Team


Sebastian


Connor


Corbin


Steven

# Mission Statement

Our aim with Wavelength is make it easier for people with similar music tastes to connect. We believe music is better when you share it with others!

# Value Proposition

Connecting compatible music listeners.

# Problem/Solution Overview

It can be difficult to find friends with the same taste in music. There is a vast pool of musical genres and artists, AND growing number of ways to consume music.

Our solution, Wavelength, is a platform where users are matched with one another based on sampled music taste and geographical proximity. We encourage users to chat about their music taste, share songs with each other, or even meet in real life and go to a concert together.

# Overview

Heuristic Evaluation Results

Key Violations to Address

Revised UI Design

Current Prototype Progress

Prototype Demo

# Heuristic Evaluation Results

# Important Results and Takeaways

- Make user navigation more intuitive
- Add settings and notifications
- Prevent errors in the domain of playlists and song selection
- Refine usability without altering core motivations

## 3. Summary of Violations

| Category | # Viol. (sev 0) | # Viol. (sev 1) | # Viol. (sev 2) | # Viol. (sev 3) | # Viol. (sev 4) | # Viol. (total) |
|---|---|---|---|---|---|---|
| H1: Visibility of Status | 0 | 0 | 0 | 1 | 0 | 1 |
| H2: Match Sys & World | 0 | 0 | 1 | 0 | 0 | 1 |
| H3: User Control | 0 | 0 | 1 | 3 | 1 | 5 |
| H4: Consistency & Standards | 0 | 3 | 2 | 2 | 0 | 7 |
| H5: Error Prevention | 0 | 0 | 2 | 1 | 0 | 3 |

| | | | | | | |
|---|---|---|---|---|---|---|
| H6: Recognition not Recall | 0 | 1 | 0 | 0 | 0 | 1 |
| H7: Efficiency of Use | 0 | 2 | 1 | 2 | 1 | 6 |
| H8: Minimalist Design | 0 | 1 | 0 | 0 | 0 | 1 |
| H9: Help Users with Errors | 0 | 0 | 0 | 0 | 0 | 0 |
| H10: Help & Documentation | 0 | 0 | 0 | 1 | 0 | 1 |
| H11: Accessible | 0 | 0 | 7 | 0 | 0 | 7 |
| H12: Fairness & Inclusion | 0 | 0 | 1 | 0 | 0 | 1 |
| H13: Value Alignment | 0 | 0 | 0 | 1 | 1 | 2 |
| **Total Violations by Severity** | **0** | **7** | **15** | **11** | **3** | **36** |

# Violations Addressed

- H1: Lack of Notifications (sev 3)
  - Solution: Added notification icon to 'friends' tab, specific chats
- H3/H5: cannot edit queue in live listening session (sev 3)
  - Solution: add edit button to reorder and delete songs
- H7: Cannot access friend's profile from chat page (sev 3)
  - Solution: link user avatar to their profile page
- H3/H7: No settings or ability to delete chat (sev 4)
  - Solution: Can remove profile, messages in Hi-Fi. Settings added to profile page.

# Results Explained

In our Med-Fi prototype, we failed to recognize some significant usability details, particularly including notifications, settings, and certain navigation options. Luckily, these were pointed out by our peers in the heuristic evaluations, and comprise some relatively easy fixes. Going into our Hi-Fi, we will be sure to implement these changes.
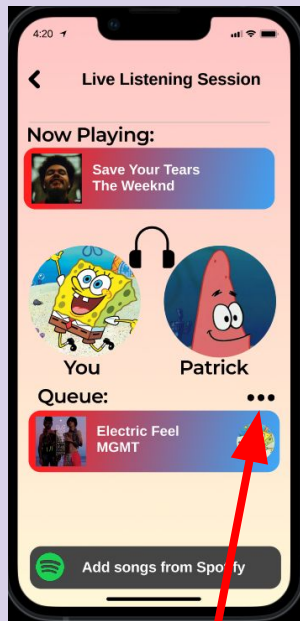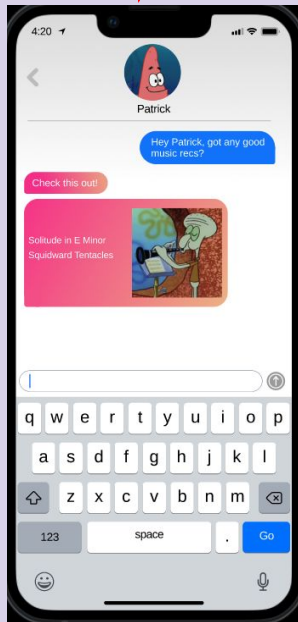
# Revised UI Design

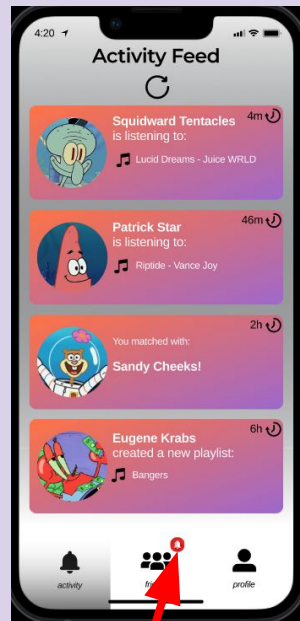# Revisions based on HE results



Chat notification icon added

Clicking avatar now takes you to Patrick's profile
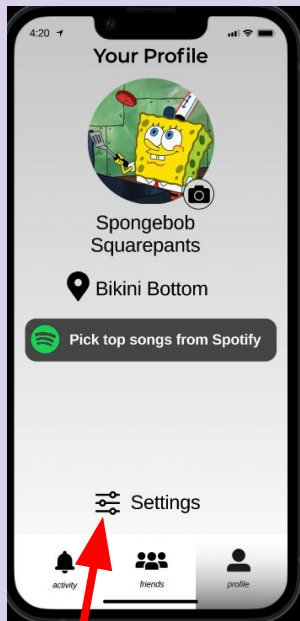
Settings button added to profile screen

Edit button added to queue
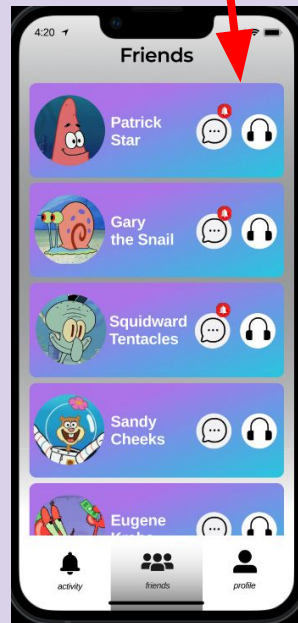
Notification icon added to friends tab if you have unopened chats.

# Novel Interface

We strove to bridge the gap between interaction and personalization in our interface. Our app is visually simple, with a strong emphasis on friends and listening activity as shown by the main pages.
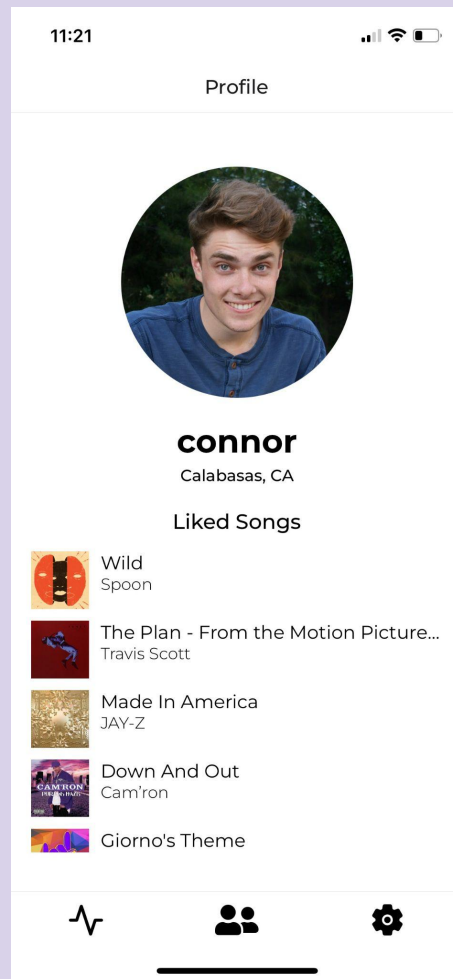
# Prototype

# Tools Utilized

- Built in ReactNative with Expo
- Utilizes Spotify API
  - For OAuth user authentication
  - For spotify user data
- Used MongoDB, Express and NodeJS for backend
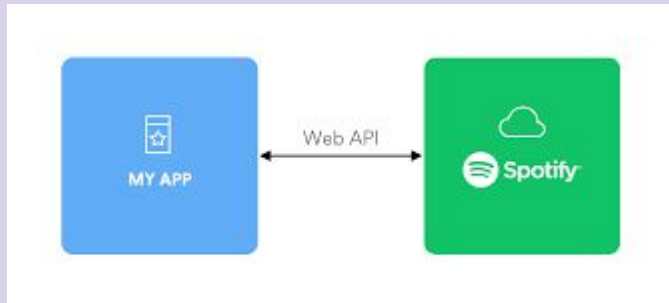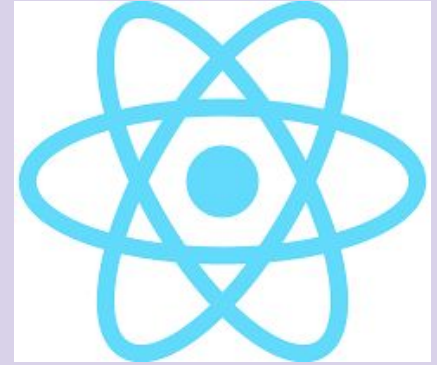
# Implementation: So Far

- Implementation of Task 1: Create a user account and customize your profile through linking your spotify account
  - Can connect spotify
  - Liked songs automatically displayed
  - User picture taken from spotify
  - Can add location

# Implementation: Next Steps

- Connect matches with each other
- View friend profiles
- Add chat functionality
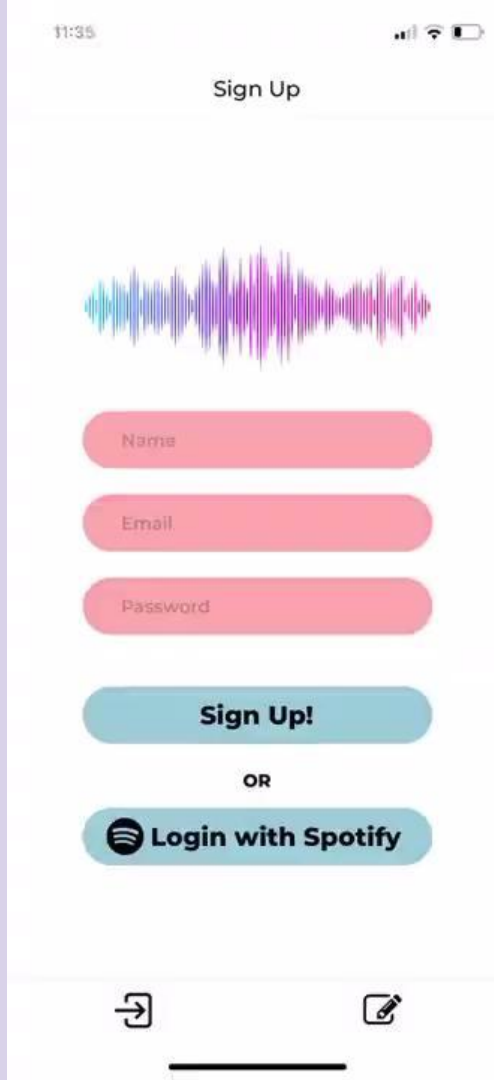- Create live listening session functionality
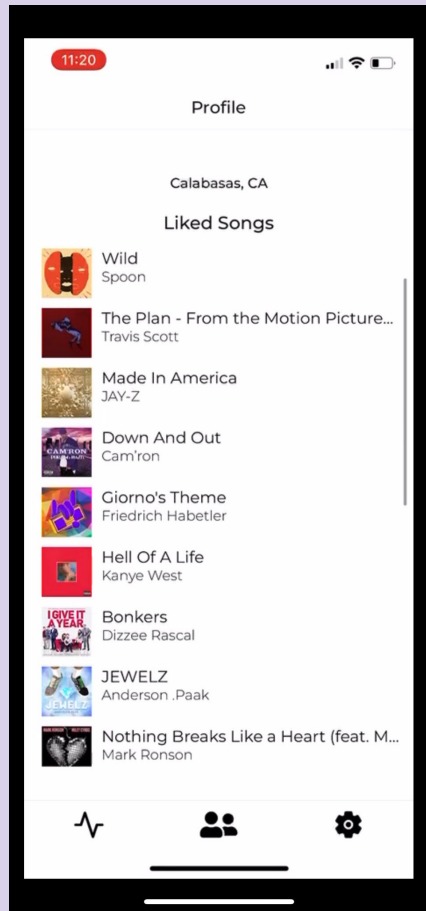
# **Prototype Design and Standards**

- Used figma design components as backbone of development
- Applied a simple, clean look and feel with a lot of whitespace
- Made navigation comprehensive and seamless
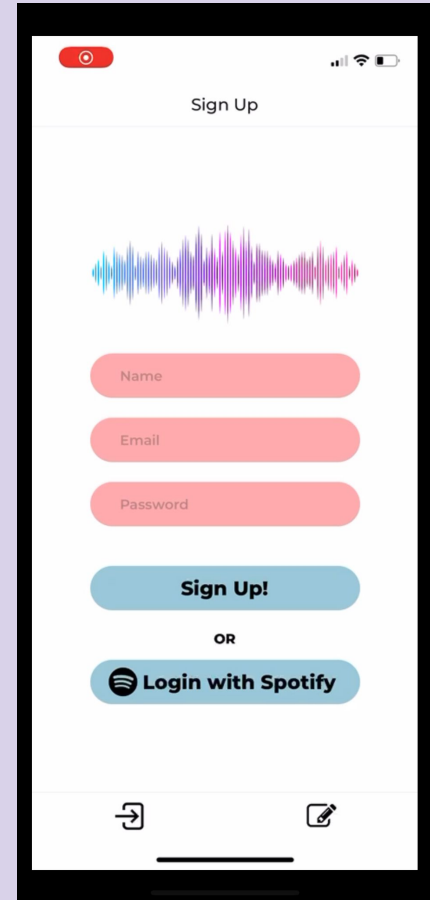
# Completed Task Demonstration

Automatically creating your account with Spotify and viewing your profile

# Summary

Using our Med-Fi prototype as a building block, we incorporated feedback from the heuristic evaluation exercise to correct usability mistakes and begin constructing an engaging Hi-Fi prototype. We have implemented our first task, creating a profile, and are on the way to constructing the rest of the functionality of Wavelength.

*"Connecting compatible music listeners"*

Thank You!