



Learn how a **mobile music app** helped transform the **lives of disabled with music!**



About Us

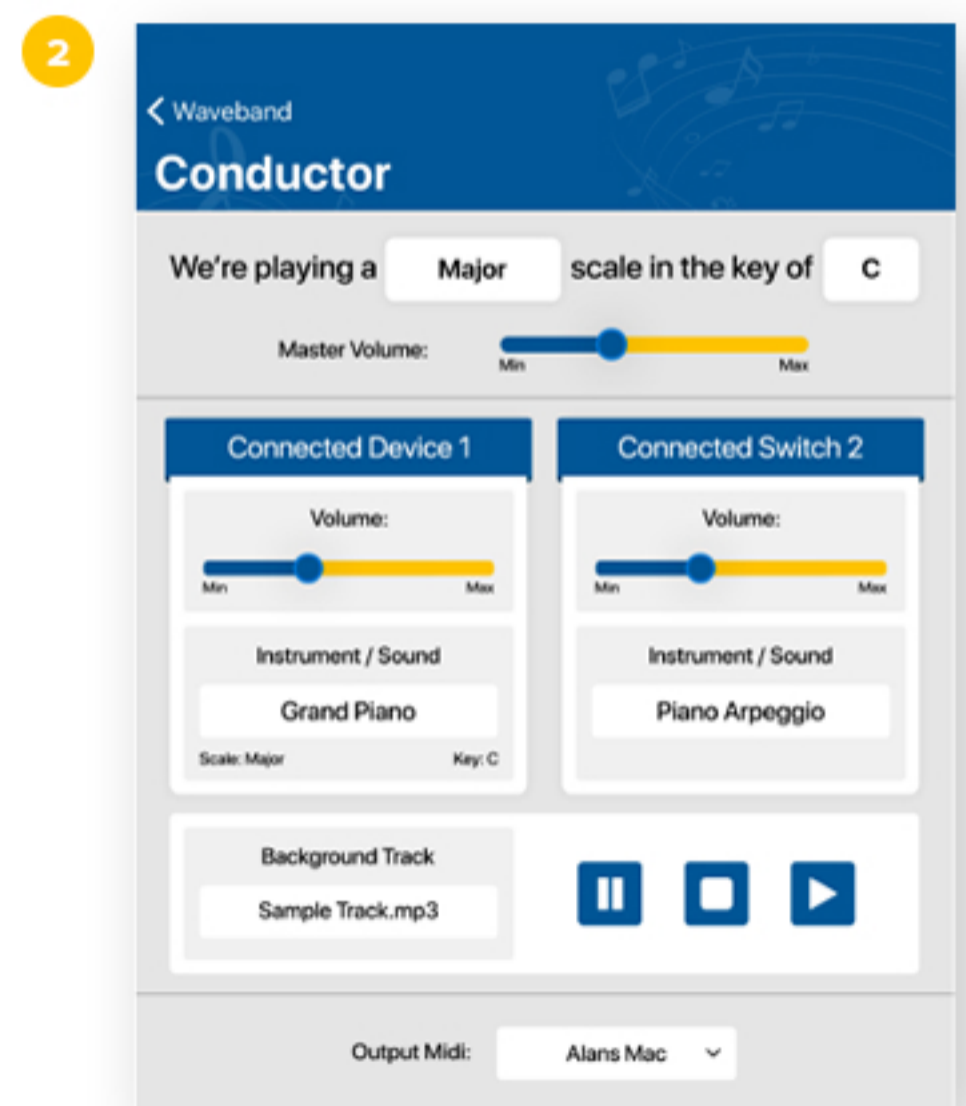
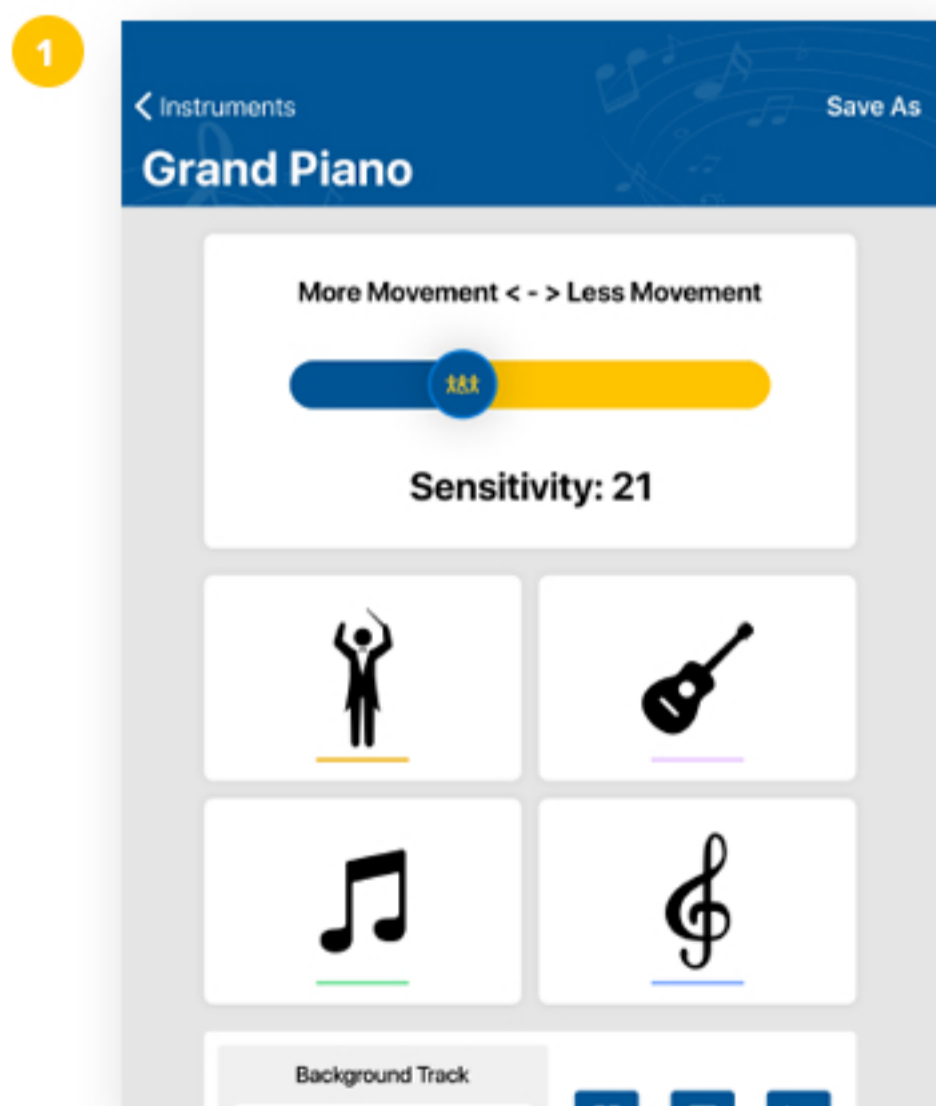
Waveband is a music app that aims to transform the lives of disabled, digitally. **It is for them who wants to express themselves musically.** This app gives the convenience of attaching the iPhone to your body parts and the device will play a pre-selected scale across several octaves. In fact, Waveband is completely customizable to ensure that each user's ability to move can be used to best advantage.

Our customer, Waveband approached us to develop an advanced music application for the same. They wanted to develop an app that greatly assist people with disabilities and improve their quality of life in a much better way. Waveband application has been developed for CanAssist which is an NGO that works for the betterment of the disabled people. Their application is used to track the gestures of the people with disabilities based on instruments that motivate them in making the movements.

Situation Analysis

CanAssist approached us with the requirement of business, to design and develop a music application in a mobility platform that would support the growth of existing functionality more efficiently. They wanted us to design an application which would serve as a therapy for the people with physical disabilities.

There are virtual instruments which can be played on IOS devices and then the tracking of the user's gestures based on the instruments. They wanted a music application that must be compatible with both iPhone and iPad. Their basic requirement was to fundamentally enhance the existing platform and multifold its reach amongst the right audience.



3

Waveband
Conductor

We're playing a **Major** scale in the key of **C**

Master Volume:

Connected Device 1

Volume:

Instrument / Sound
Grand Piano
Scale: Major Key: C

Connected Switch 2

Volume:

Instrument / Sound
Piano Arpeggio

Background Track
Sample Track.mp3

Output Midi: **Alans Mac** ▾

4

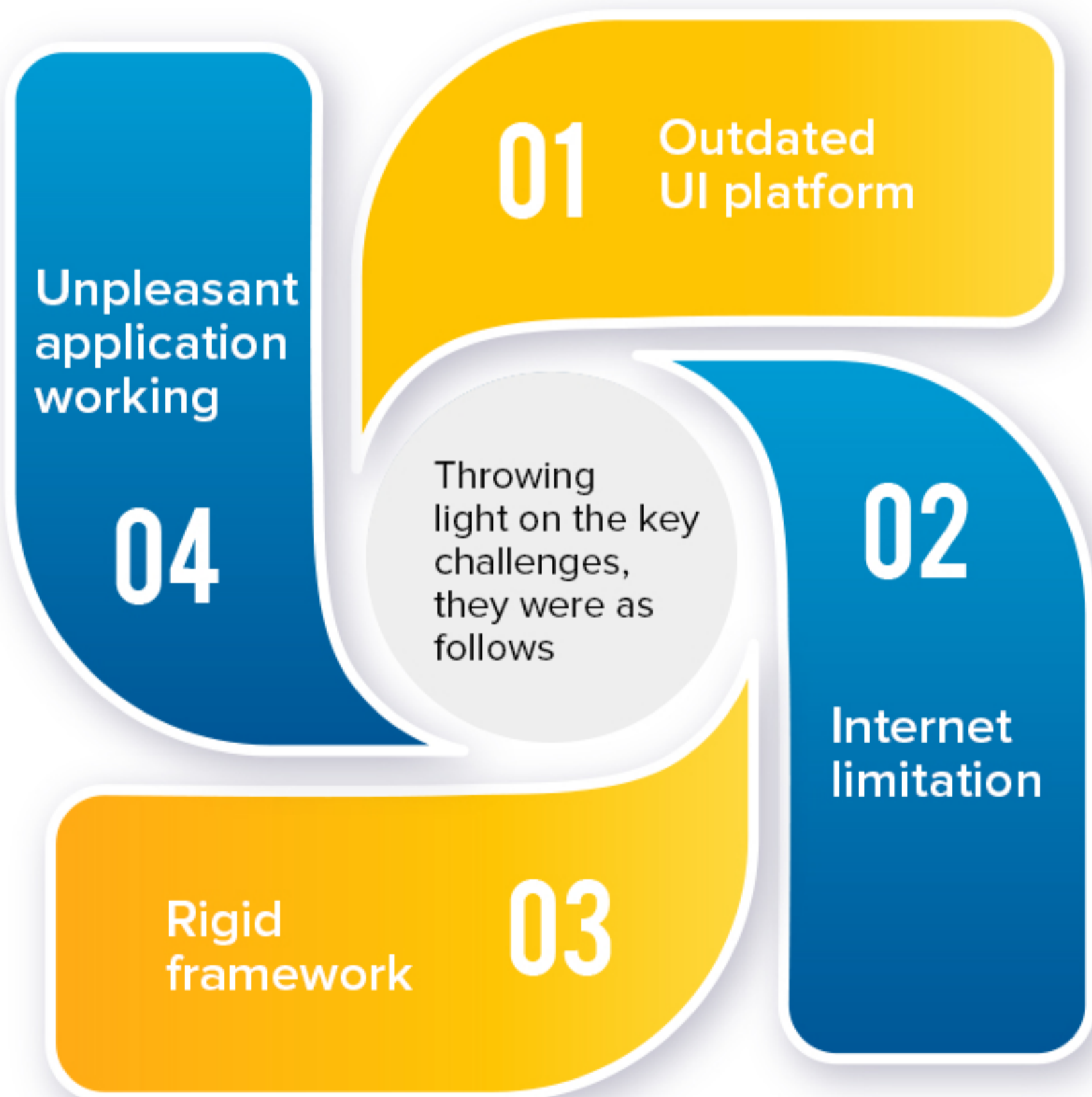
Waveband
Instruments

- Chimes ▶
- Classical Cello ▶
- Tap Dance SFX ▶
- English Horn ▶
- Synth Bass ▶
- Percussion ▶
- Grand Piano ▶
- Jazz Guitar ▶
- Blues Guitar ▶

Challenges: Updating the Outdated!

There were a set of challenges that our client was facing. Starting with the UI design of the platform. It was outdated and rigid to its design. There was an urgent need to revamp the application and make it more user-friendly.

Secondly, the Wi-Fi issue was bugging the complete essence of the application. Earlier Wi-Fi connection was necessary to avail the benefits of the app. Our client required some foolproof methodologies to overpower these challenges.



Our Solutions: Design to Perfection

- Having considered the requirements as well as the challenges of our client, we came with a convincing methodology to connect the dots of the application and the desired audience.
- We developed multiple functionalities to cater to the user's emerging application requirements.
- The application requirement was to design the music custom player with its numerous control to enable the user to deploy its flexibility and scalability.
- We helped them achieve it through the following strategies.

JAM Session

This functionality enabled the central therapist to control the sound and other features.

Sensitivity

This feature leveraged the user to adjust the sensitive mode according to their movement and physical abilities.

In addition to this, we closely worked upon their UI platform to create a friendly as well as colorful application that eventually attracts leads. We made this application flexible enough for the users to shake, roll, pitch or turn the device and the movement will still be created.

Technologies Deployed

BLE (Bluetooth Low Energy)

Bluetooth

Objective C

Swift

MIDI

These are the technologies that we deployed to build the perfect app for our client ;

Progress Meter

Throwing light on the benefits that we provided to our client through our services, were as follows:



People from a wide range of disabilities were able to express themselves musically



Users were able to alter movements from the sound of various musical instruments



Enriched look and feel of the application



Increased productivity of the application.

This project was not just a success but a ray of happiness into the lives of numerous people.

What specialize in

Customizing according to your need

Implementing best practices

Deploying proven
methodologies

Dealing with challenges on
your behalf

Shaping your way to success



India

📍 A-89, Sector-63, Noida, UP-201301

☎ (+91) 120-4223960

United States

📍 12410 Milestone Center Dr. Suite 600,
Germantown, MD 20876

☎ (+91) 120-4223960

Email : askus@hytechpro.com

