Plectrum

MOBILE APPLICATION

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What is a plectrum?

A plectrum is a fancy name for a guitar pick. It is a vital accessory for any fluent musician endowed with a string instrument, yet this tool alone cannot help keep time, it can't decipher intonation or jog the memory of complex chord progressions. Many instrumentalists are limiting themselves by the physical aspect of their playing styles.

Plectrum is an application that aims to bring ease and accessibility to musicians looking for it by:

- Giving confidence and security to musicians who are just beginning
- Combining the most used and needed tools for casual playing
- Creating a dialogue that both entertains and informs the user

Use Cases

Benjamin, 21

Ben is a college student studying mechanical engineering that enjoys playing guitar in his free time. He wouldn't consider himself to be "good at guitar", but when he jams with his friends they definitely think so. He likes using Plectrum because everything he would need to play is in one place. He can:

- Make sure everyone is tuned to the same base note
- Look up complicated chords that are transposed from bass or piano
- Record himself and his friends via his phone mic

Olivia, 33

Liv is an accomplished concert violinist that plays with a large orchestra in the northeast. Music isn't necessarily "her life", but it is both her career and biggest passion. She likes the life she has built for herself and often spends weekends practicing various pieces, either for a concert or personal pleasure. By using Plectrum, she can:

- Compare recorded sessions played at different BPMs
- Alter the frequency of pitch standard to the personal preference of her maestro
- Stay in-time with a visually cued metronome

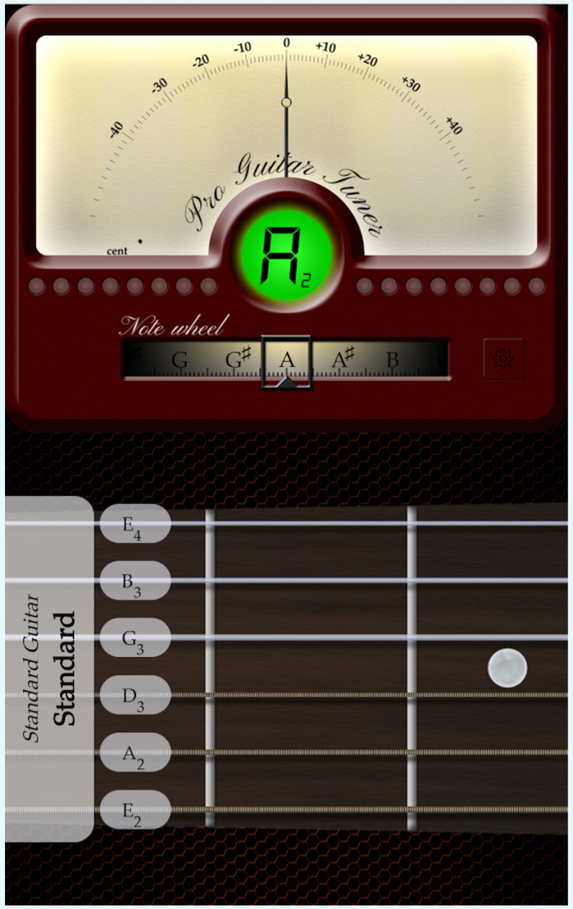
Apps on the Market

GuitarTuna by Yousician Ltd.

- Chords supplied for guitar, ukulele, and piano only
- Gamified experience appeals to a more specific demographic
- Metronome is manually set

Pro Guitar Tuner by JR Innovation

- boasts over one million downloads
- unable to record or keep time
- Chromatic tuner and tune-by-ear use same interface



Design Trends

- Dark
- Skeuomorphic
- Congested

Design Specifications

- Clean
- Intelligent
- Engaging

Monarcha Regular, 36pt

MACHO SMALL CAPS, 18pt

Macho Regular, 24pt

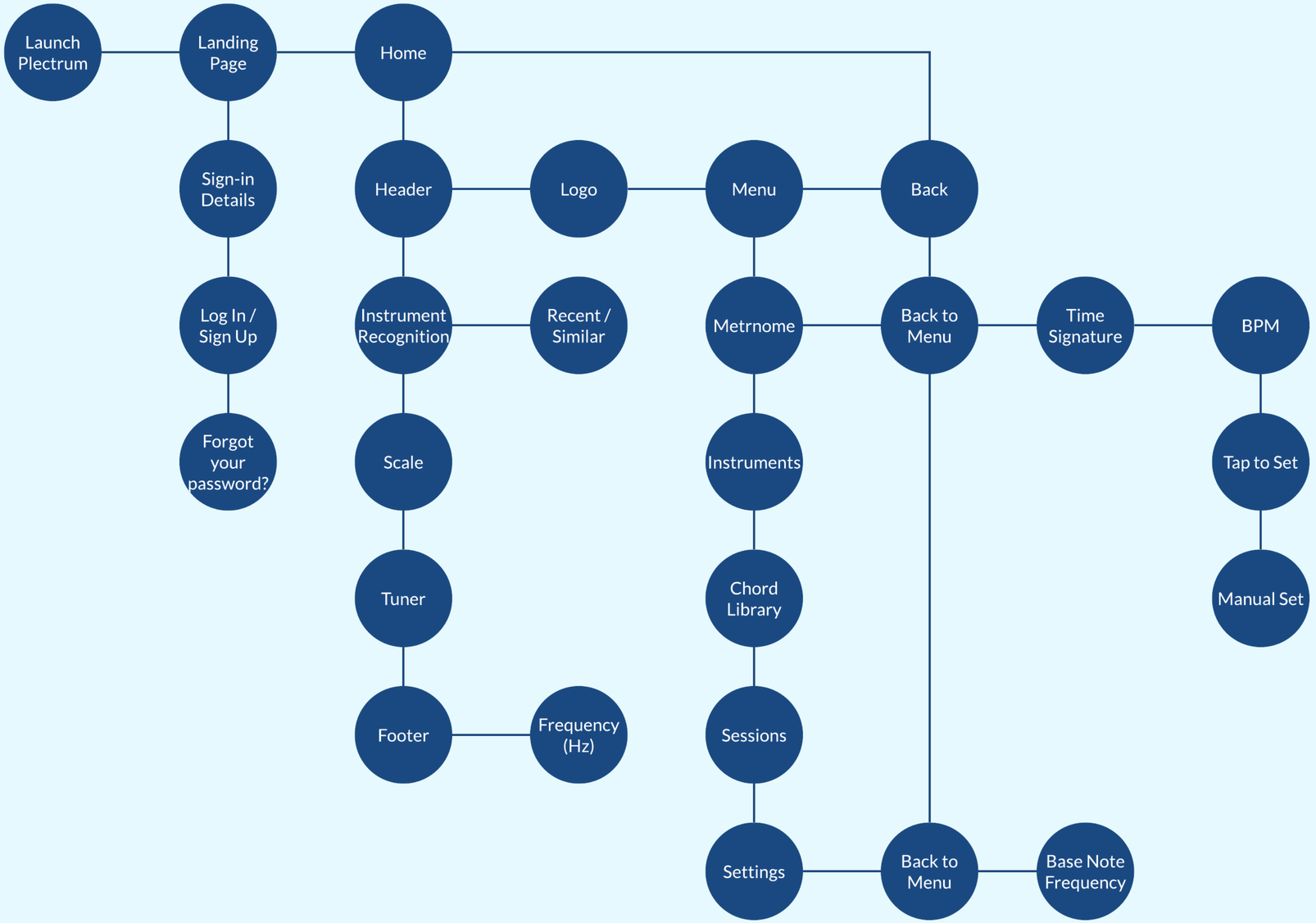
INTERFACE SWATCHES

#00273c #007ab6 #92b8d7 #e6f9ff

TUNER SWATCHES

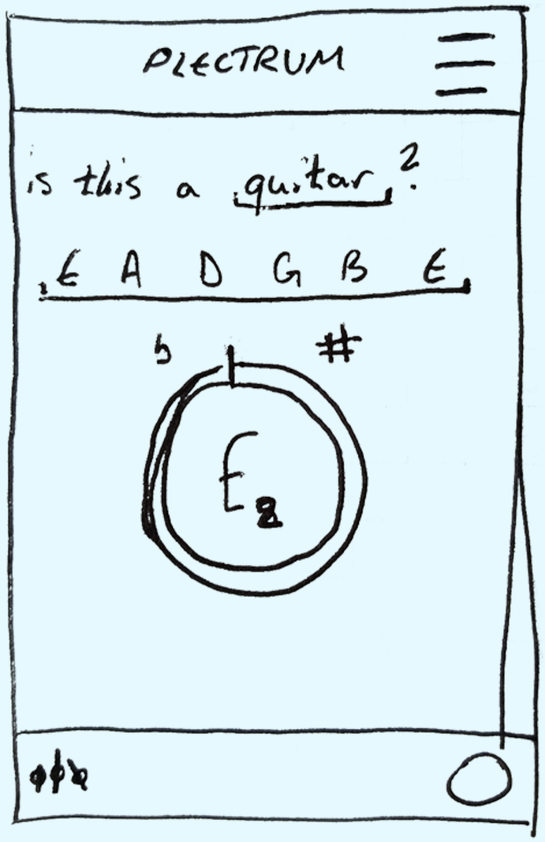
#ffd400 #66cc33 #ff6600

Information Architecture

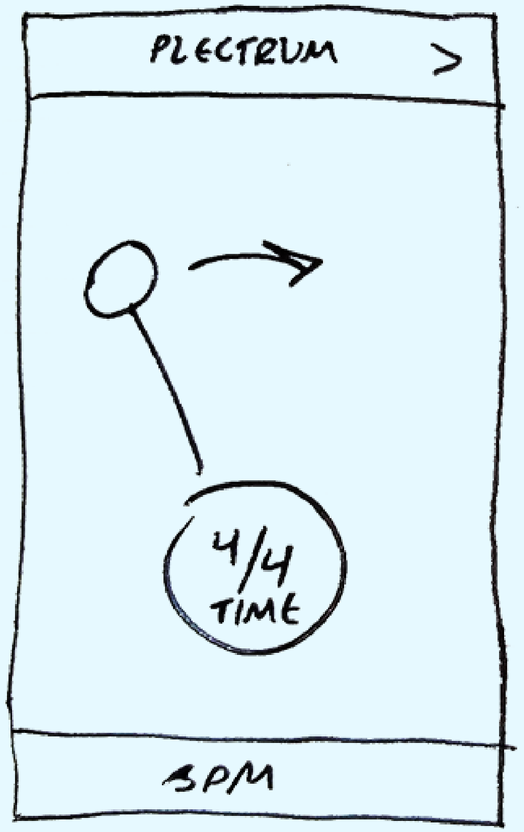


Sketches

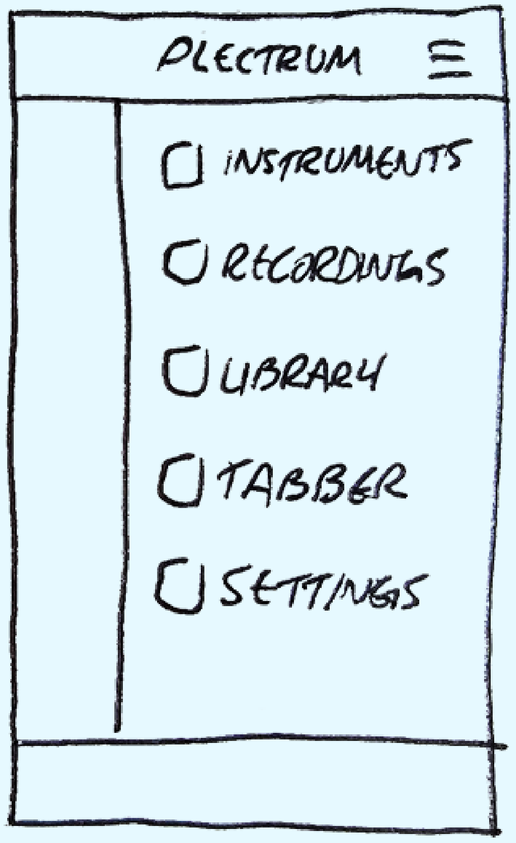
HOMEPAGE



METRONOME

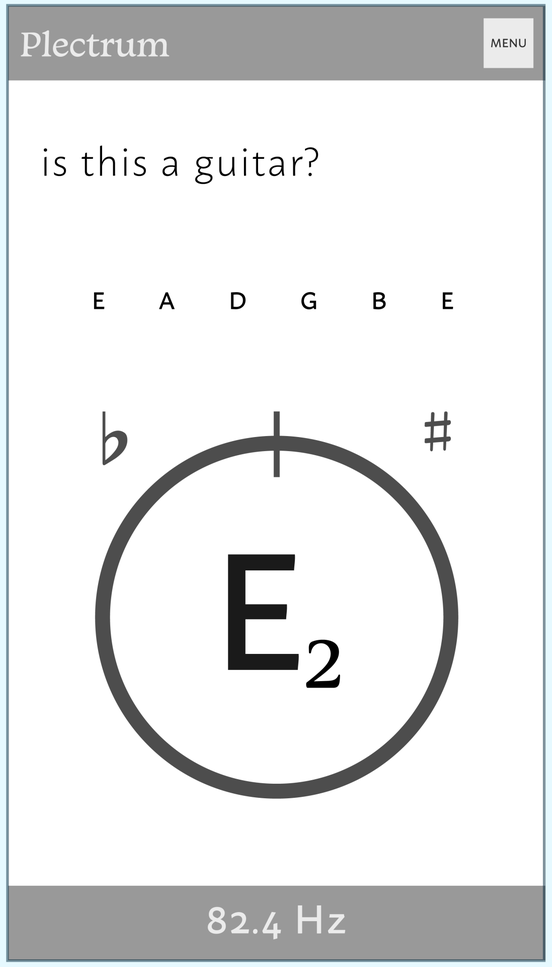


MENU DROP-DOWN

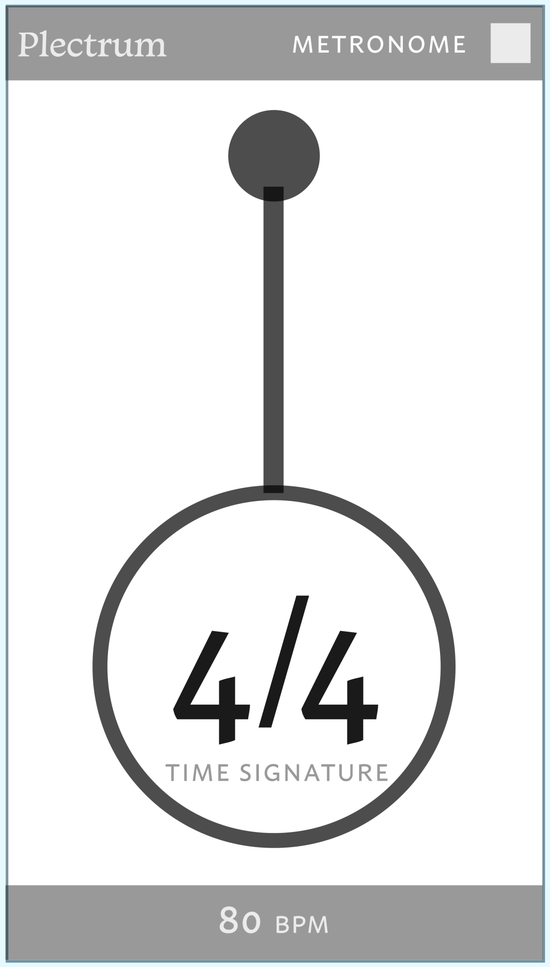


Wireframes

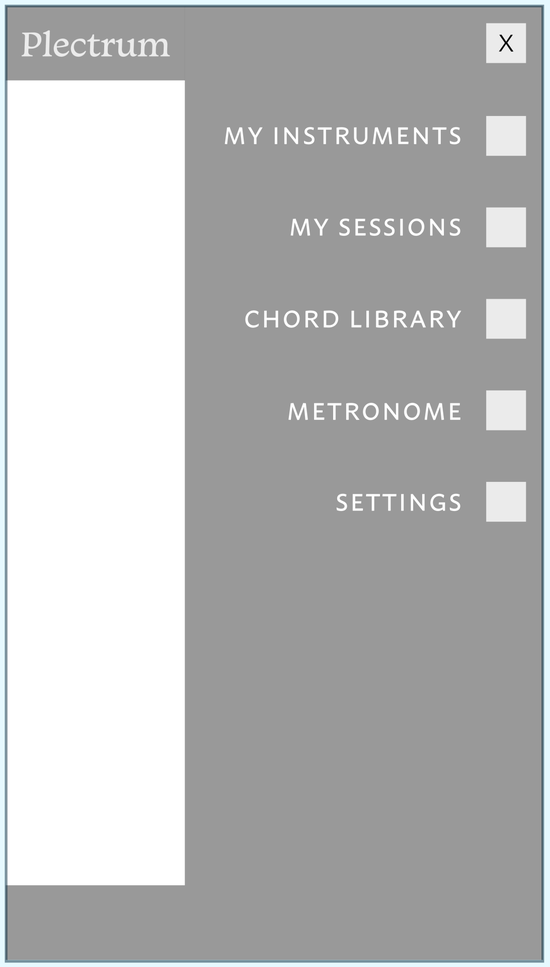
HOMEPAGE

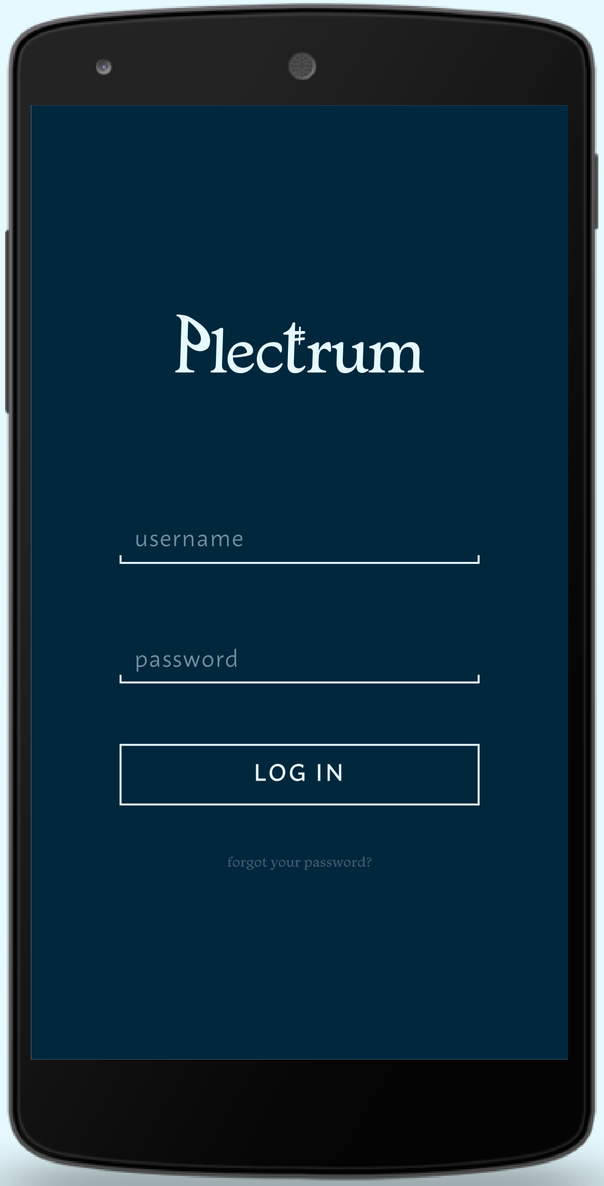


METRONOME



MENU DROP-DOWN





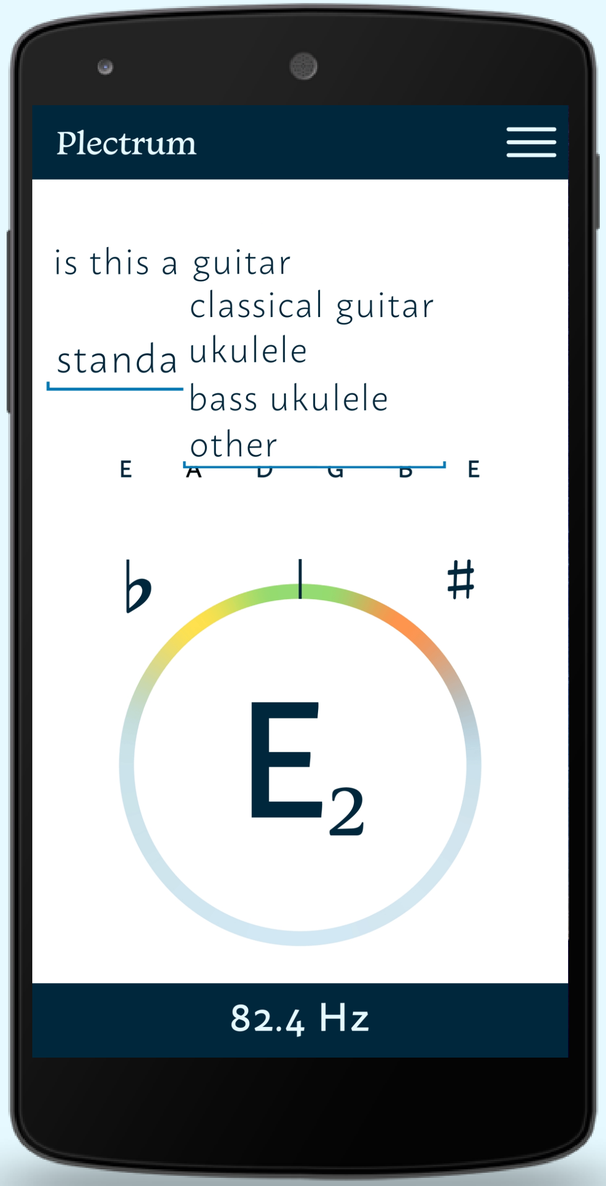
01
Landing Page

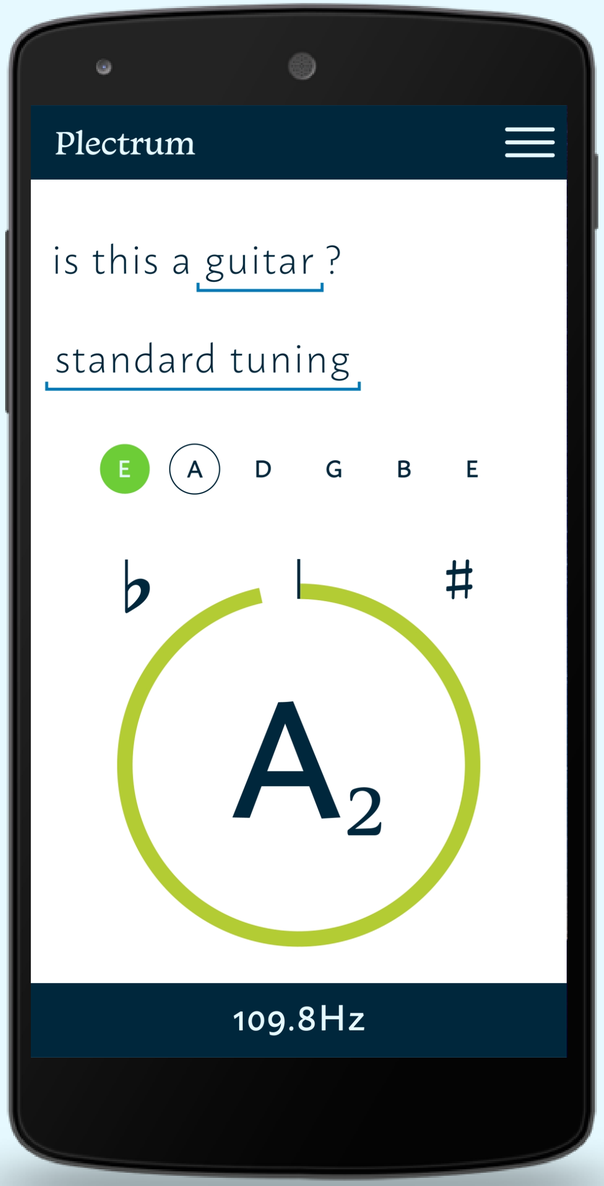
Features hi-fidelity logo and standard sign-in input fields. A new user will automatically be walked through onboarding upon entering an unregonized username.

Final Interaction States

01
Instrument Recognition

The application is very sensitive to frequencies and can sonically differentiate between the sounds of various instruments. In this case, the user is showing the ability to override the auto detection.



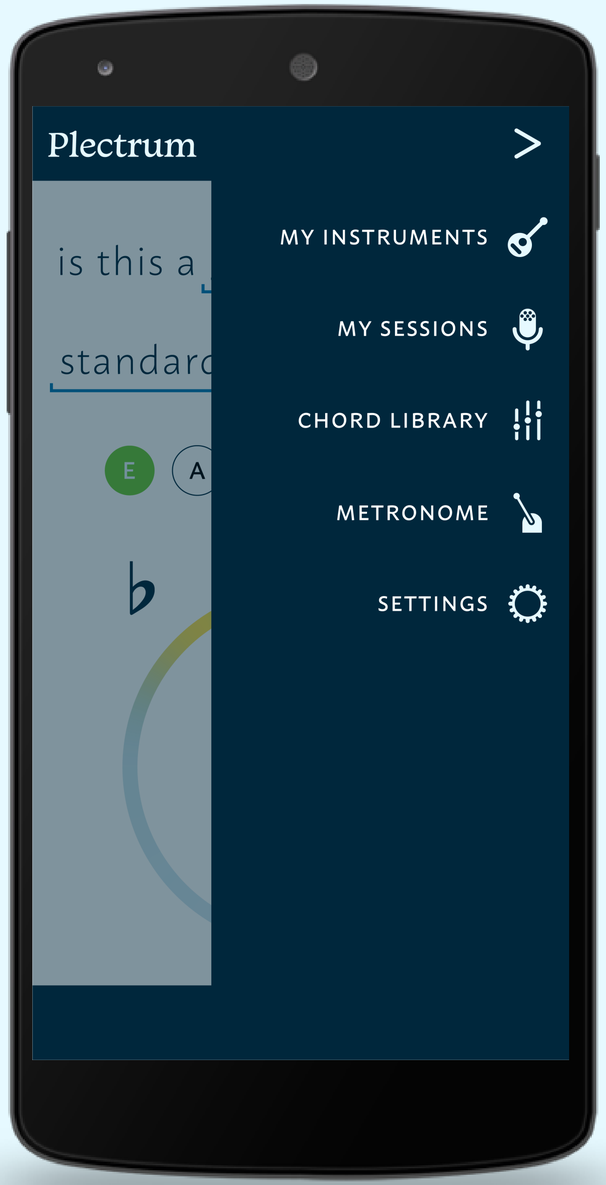


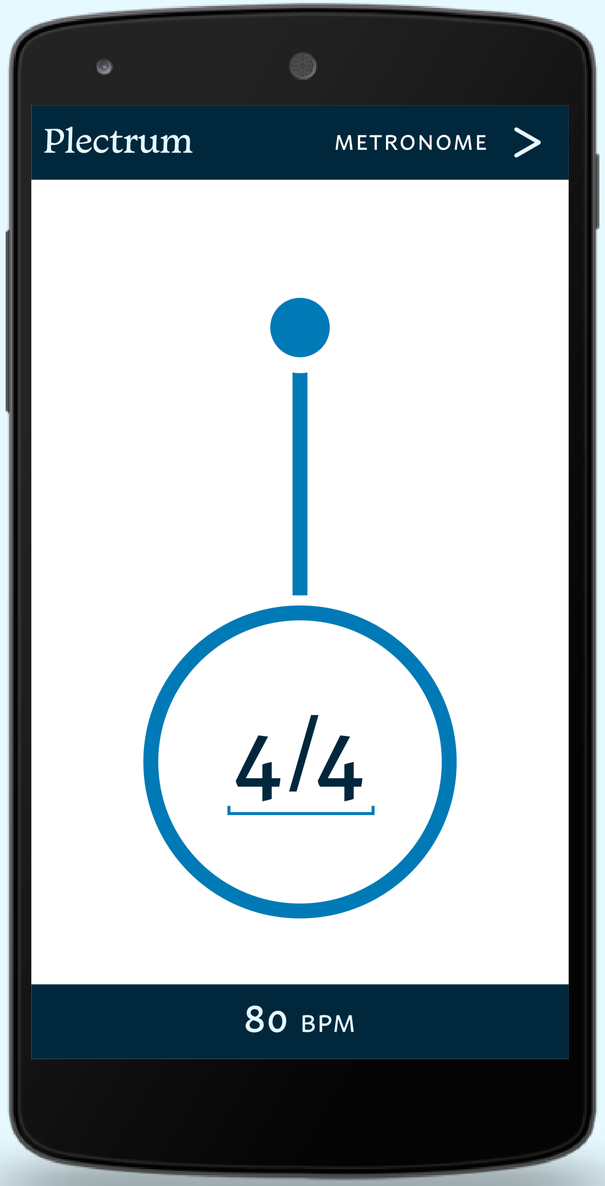
02
Responsive Tuning

A combination of colors and frequencies are used to inform the user when a certain note is in tune. The user also has the ability to preload a non standard tuning.

03
Hamburger Menu

The menu shakily expands to reveal a list of various features of the application. including logged instruments, previous sessions, and a chord library.





04
Make-Your-Own Metronome

The metronome is synchronized directly by the user's input to help craft a tempo quickly and without the confusion of conceptualizing a certain tempo. It also features a virtually complete list of time signatures.

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