

Soundless

People only care about their hearing when they lose it.

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Core Features:



Noise Level Breakdowns



Diagnostic Test



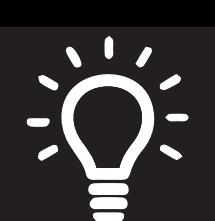
Alerts of Harmful Sounds

Users can view a **detailed breakdown of their sound history** on our homepage. Our circular chart illustrates a breakdown of the **past sounds** our user has heard throughout that day. Our volume meter presents **current noise levels** so users can check their noise levels in real-time. Our dynamic chart displays our users **recent sound history** in decibels.

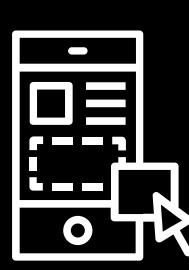
Users are able to take an in-app hearing test to **evaluate their hearing**. Based on the results of the diagnostic test, users are provided with **contextual feedback/advice** and may be recommended to visit an audiologist.

Our application **detects loud sounds** through the phone's microphone and **alerts the user** through a notification, reminding them to be aware of the sounds in their environment and recommended solutions.

Design Process:



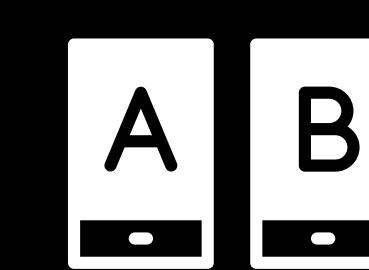
Ideation:



Wireframes:



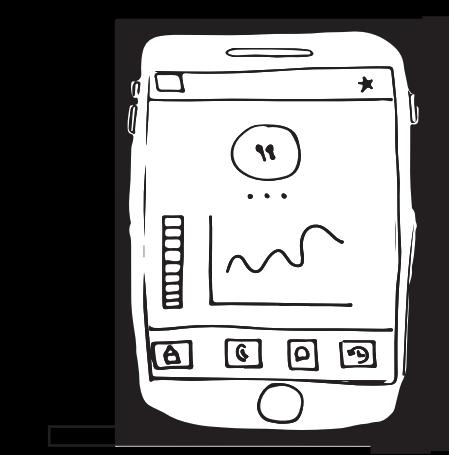
Prototyping:



User Testing:



Final Design:

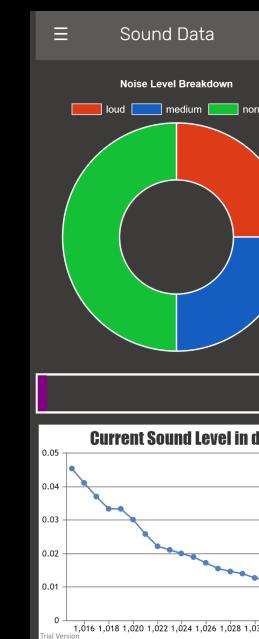
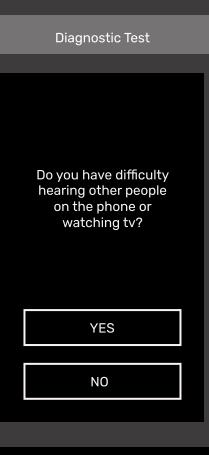


Our final app idea was based on feasibility, novelty, and relation to sound feedback.

Our app would record audio throughout your day and notify you of any dangerous sound levels.



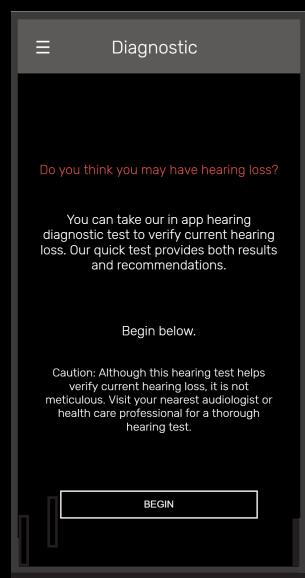
We separated each function of our application to a separate page, dividing our actionable functions to a page that would record audio and display your sound activity throughout a day, a starting page for a diagnostic that tests your hearing, a history page that details your past data over different time frames (e.g. day, month, year), and a page solely for warnings.



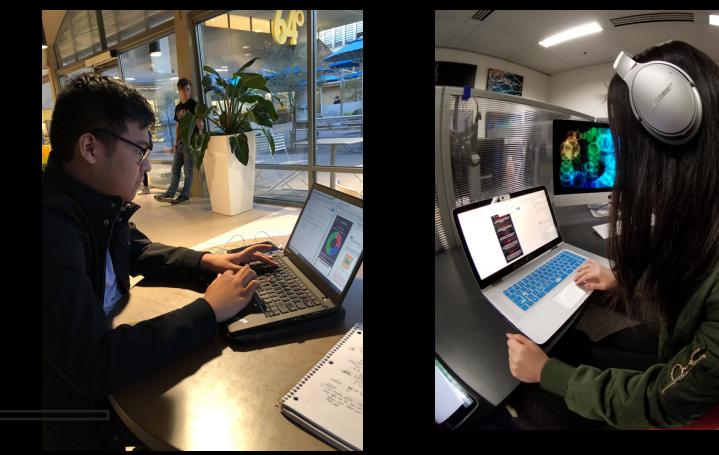
Our **circular chart** was designed to show a **breakdown** and categorization of sounds throughout the day, classifying them as good, okay, and harmful.

The **volume meter** displayed **current noise levels** read through the phone's microphone.

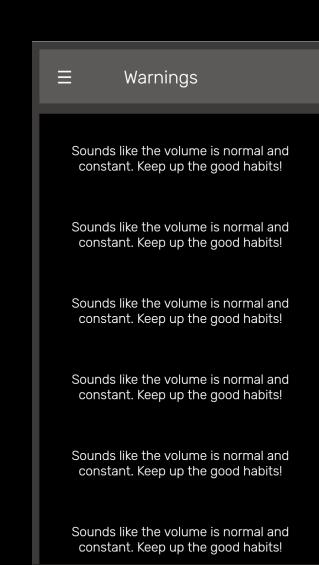
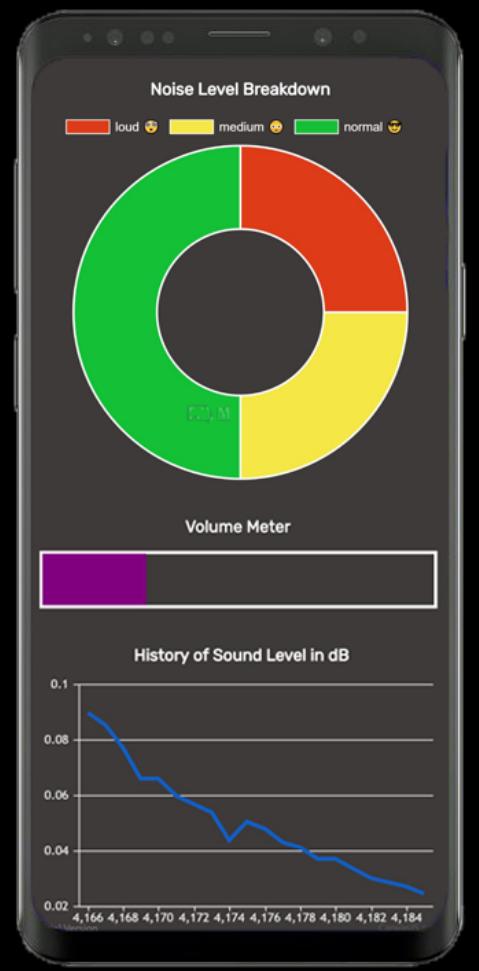
The **dynamic data chart** displays both current noise levels while displaying **recent sound levels** to provide context.



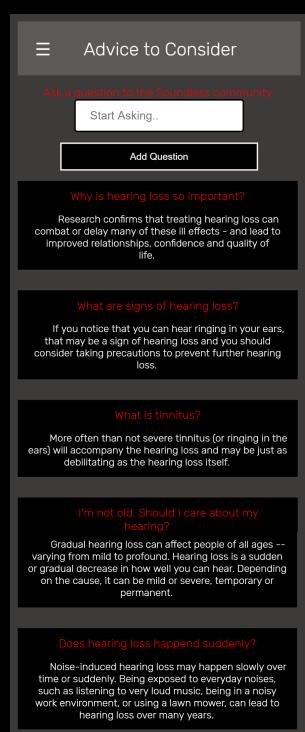
Taking inspiration from medical hearing tests, our **diagnostic** displayed questions ranging from common hearing loss symptoms to **pure tone tests** to having users listen to English words.



Users were having trouble differentiating pages so we made it a priority to **add context** to our app and **change up the page titles**.

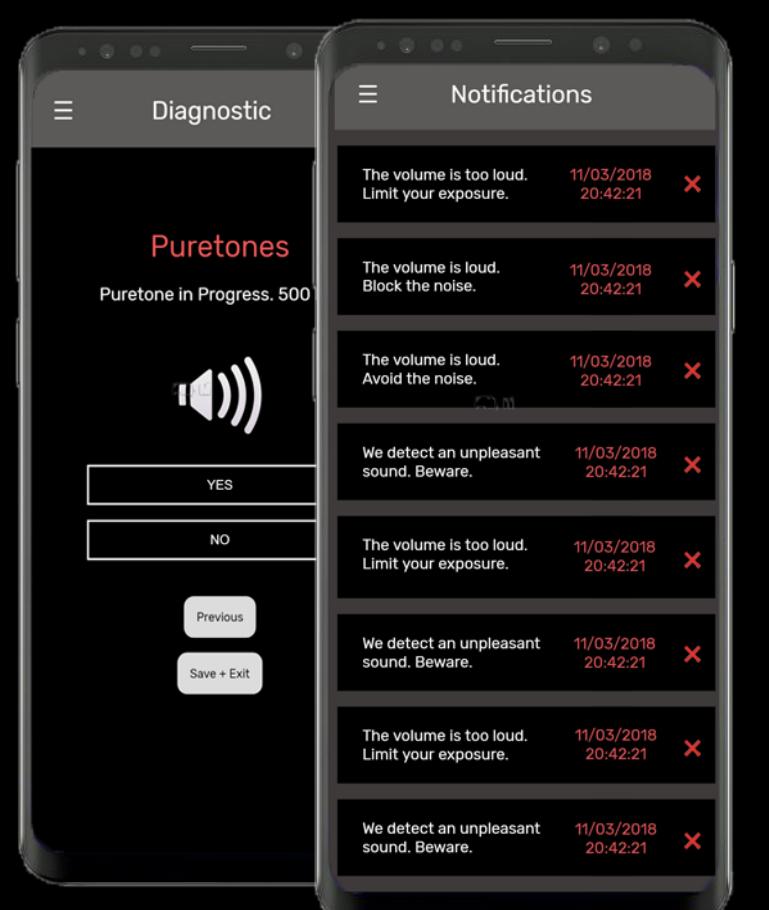


Using the same program for our volume meter, we weighted noise levels with a max of 1.0 and, in turn, printed our **real-time warnings**.



Our **advice page** reads from a data.json file that has hearing facts and recommendations preloaded so if users were interested in facts related to hearing loss they could head over to that page.

To offer more personalization, we allowed users to save and access their data anywhere with the login button presented on the sidebar menu.



Competitive Analysis:

Our unique value proposition comes from providing an **all-in-one application** for sound health, aggregating features that are found on multiple different applications.

Our application **actively listens as a background process** on your mobile phone which is a feature not found on other applications.

Competitive Landscape

	Self Monitoring	See Primary Physician	SNLInFFT	Sound Meter	NolSee	uHear	Sound-v	Play it Down	Hearing-Check	NOWiHEAR	Test Your Hearing	Soundless
Active Listening	Green	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Green
Decibel Sensor	Red	Green	Green	Green	Green	Red	Green	Red	Red	Red	Red	Green
Real-time Alerts	Green	Red	Yellow	Red	Red	Red	Red	Red	Red	Red	Red	Green
Diagnostic Test	Red	Green	Red	Red	Red	Red	Red	Yellow	Green	Green	Yellow	Green
Contextual Recommendations	Red	Green	Yellow	Red	Red	Red	Red	Red	Red	Red	Red	Green
Cost	Green	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Green	Yellow	Yellow	Green