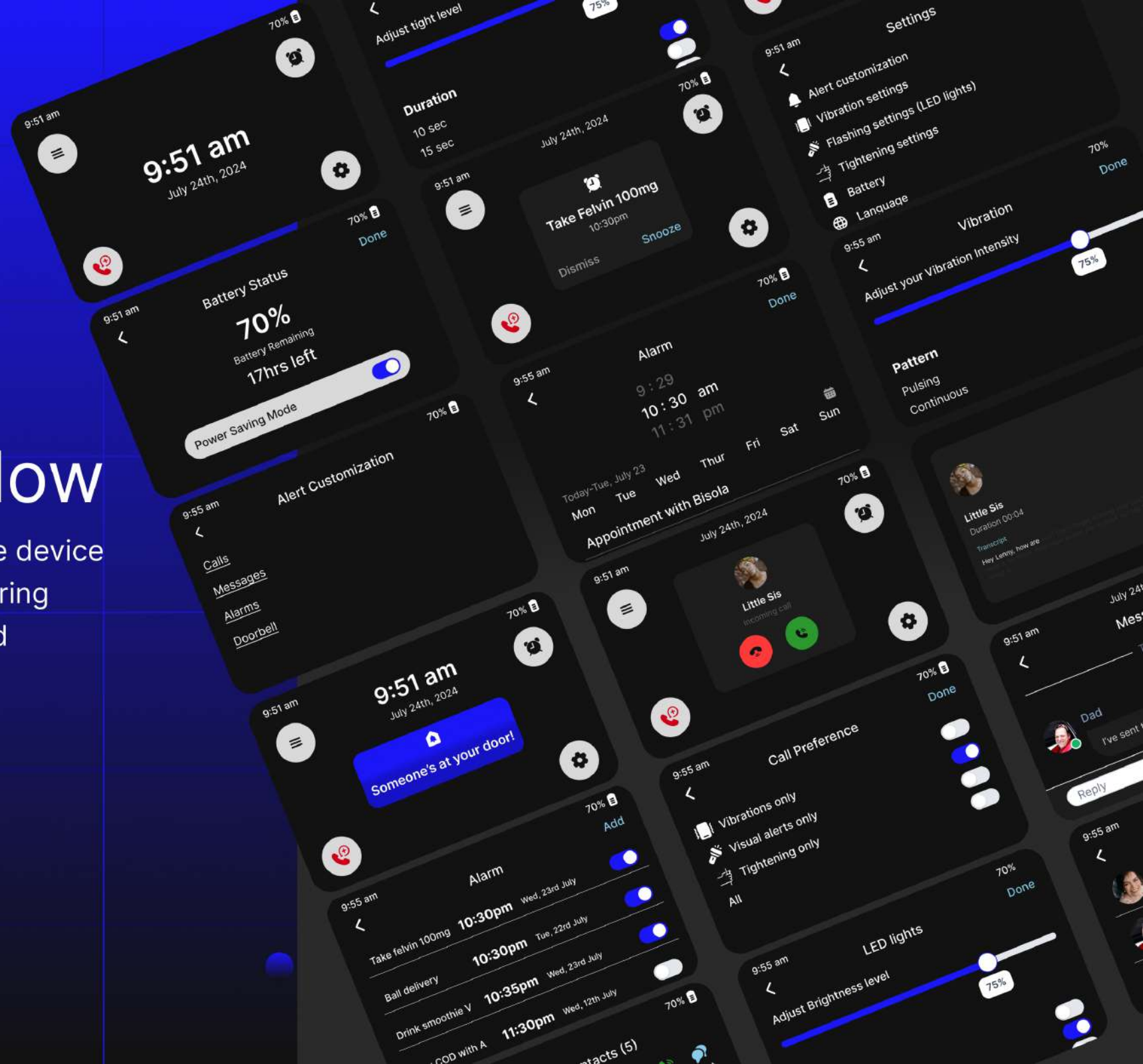


Vibeglow
Smart wearable device
for the hearing
impaired

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Vibeglow

VibeGlow is a smart wristband designed to enhance the lives of hearing-impaired individuals by providing seamless access to important notifications.

With VibeGlow, users can stay connected and informed through a variety of alert options, ensuring they never miss a critical moment.

Problem



In a world where real-time notifications are crucial, Hearing-impaired individuals often struggle to stay aware of important notifications.

Around **20%** of individuals with hearing impairments regularly miss notifications on their devices due to auditory-based alerts.

Whether it's a **message**, **call**, or **knock at the door**, traditional devices often fail to provide effective alerts for those relying on non-auditory cues.

According to W.H.O



1.5 billion people globally are affected by hearing loss, making up nearly 20% of the world's population.



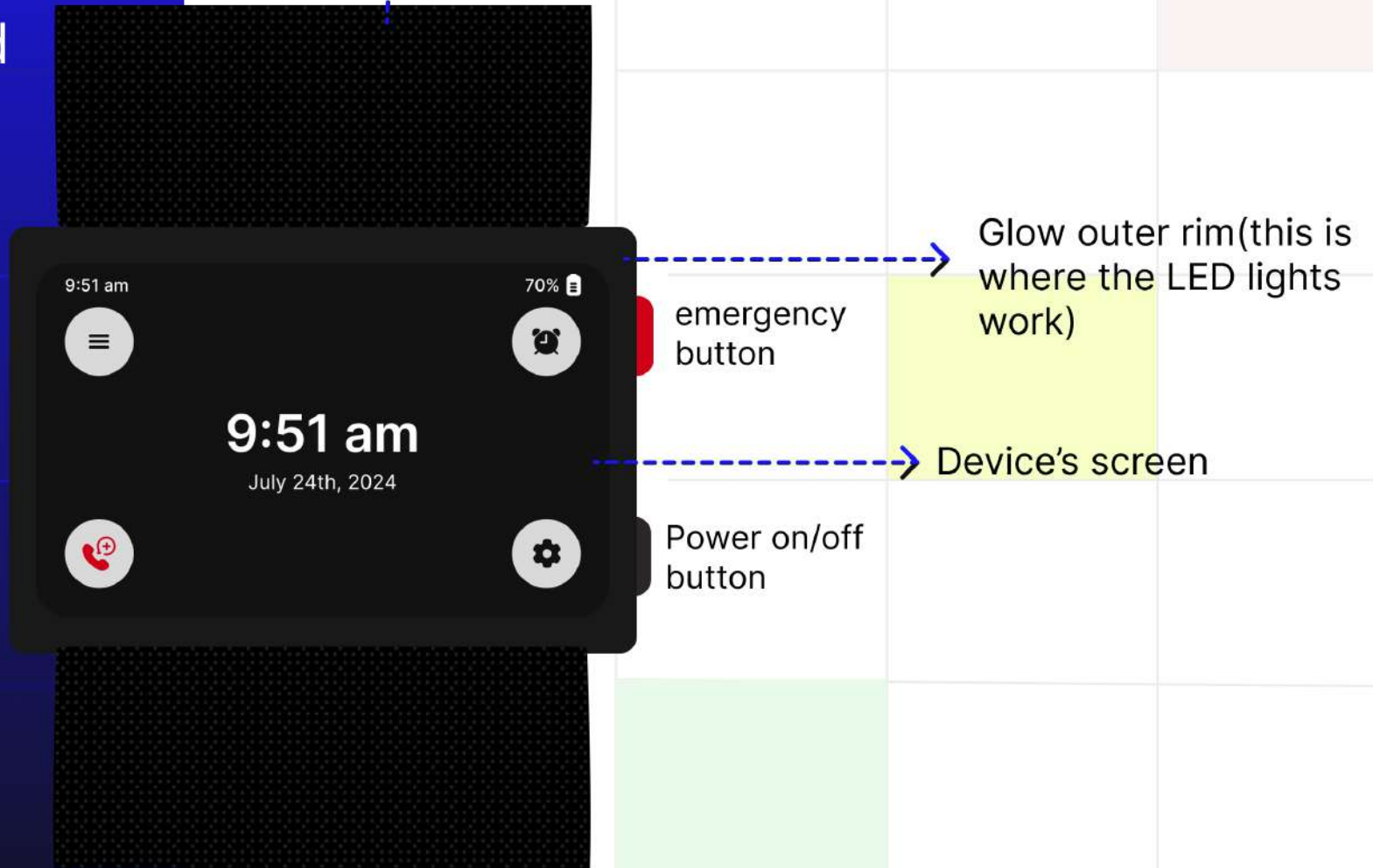
More than 2.5 billion people worldwide require one or more assistive products.

In some low-income countries, access to assistive products can be as **low as 3%**.



The device's strap (the tighten & vibration feature works here) features a durable, skin-friendly strap with integrated tactile alerts—vibration and tightening—similar to a blood pressure cuff, providing clear and effective notifications."

The Wristband device



Research

In designing [Vibeglow](#), research was conducted to understand how individuals with hearing impairments interact with technology.

Key Challenges

Pain points

- Missing important alerts when not actively looking at a device.
- Devices are not made specific for them; they're a second-thoughts
- Inconsistent or insufficient feedback mechanisms to ensure critical notifications are received.

The findings highlighted a dependence on both [visual and tactile cues](#) for communication and notifications.

Key insights from research



[Visual Alerts](#): Devices with LED lights or screens that flash or glow help users notice important notifications.



[Tactile Feedback](#): Vibrations and other forms of physical touch feedback are crucial, especially when visual notifications are not in direct sight.

These findings shaped the core design of [VibeGlow](#), ensuring it caters to the specific needs of hearing-impaired individuals by integrating [both visual and tactile feedback mechanisms](#).

Persona

Lenora Smith



User Persona



Lenora Smith

Status: Single

Location: UK

Age: 29

Lenora is a freelance writer who works remotely. She enjoys the flexibility of her work, which allows her to explore her creativity at her own pace. She has an hearing impairment and uses technology to stay connected to the world around her. When she's not writing, she enjoys reading, cooking and spending time with friends & family.

NEEDS

- Stay aware of notifications without constantly checking her phone or computer.
- Receive alerts in situations where visual cues are not possible.
- Ensure that her device is both stylish and functional, complementing her personal and professional life.

FRUSTRATIONS

- She sometimes misses important notifications when she's focused on writing or when her phone is out of sight.
- Some tactile notifications from devices are either too weak or inconsistent.
- Struggles to find devices that fit seamlessly into her minimalist and professional work environment.
- Limited device options that cater to her hearing impairment.

MOTIVATIONS

- Staying connected and organized while working remotely.
- Maintaining independence with accessible, user-friendly tech.
- Efficiently managing her work and personal life without missing notifications.

DEVICE USAGE

Laptop

Mobile phone

Computer

Laptop

Style guide

Clear

Modern

Accessible

Aa

Inter

VibeGlow uses Inter for its clean, legible design, chosen to ensure readability.

Colour palette

Designed for both aesthetics and functionality. VibeGlow uses blue as the primary color, with white text for readability. LED indicators in blue, red, green, and yellow offer clear notifications.

#Black

#1C17F8

#87CEEB

#Gray

#FFFFFF

#FF3A3A

#2C992E

#CF0018

#FBFE16

Key Features

- **Comprehensive Alerts:** Receive notifications for doorbells, calls, messages, and alarms.
- **Customizable Alerts:** Choose from visual alerts (LED), vibration, or the unique tighten feature for a snug, attention-grabbing fit (the tighten feature works like how a Blood pressure machine tightening works)
- **User-Friendly Interface:** Easily navigate settings and personalize alert preferences to suit individual needs.
- **Comfort and Style:** Enjoy a sleek, modern design that fits comfortably on the wrist, ensuring all-day wearability.



With VibeGlow, experience a new level of independence and confidence, knowing that essential notifications are always within reach.

Stay connected, stay aware, stay empowered with VibeGlow.

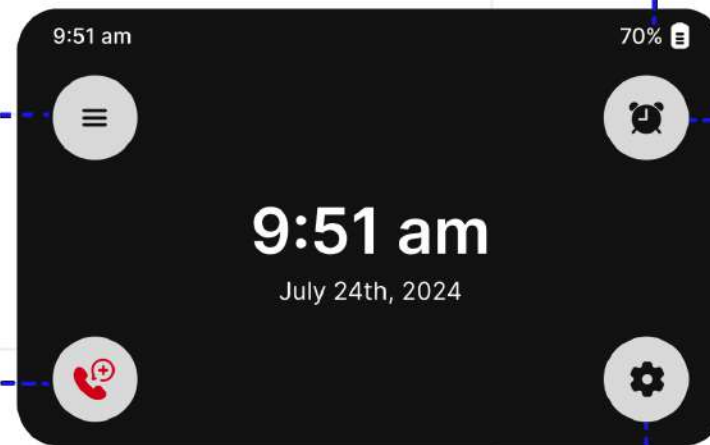
VibeGlow offers more features, including weather updates and workout tracking, and so much more

Lenora can access/ see her battery status

Lenora can see or set her alarms/ reminders for waking up, medications and so on.

Lenora can access her emergency contacts.

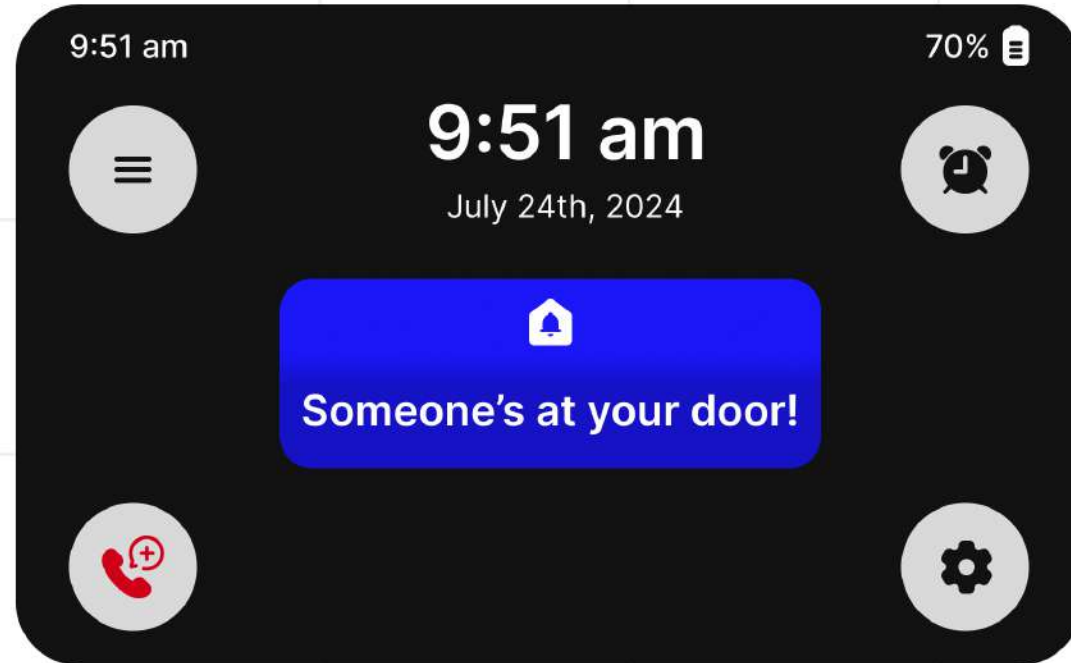
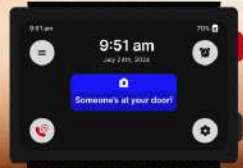
Lenora can go to her settings and customize her alerts(vibration, lights etc settings), theme, language.



Doorbell Notification

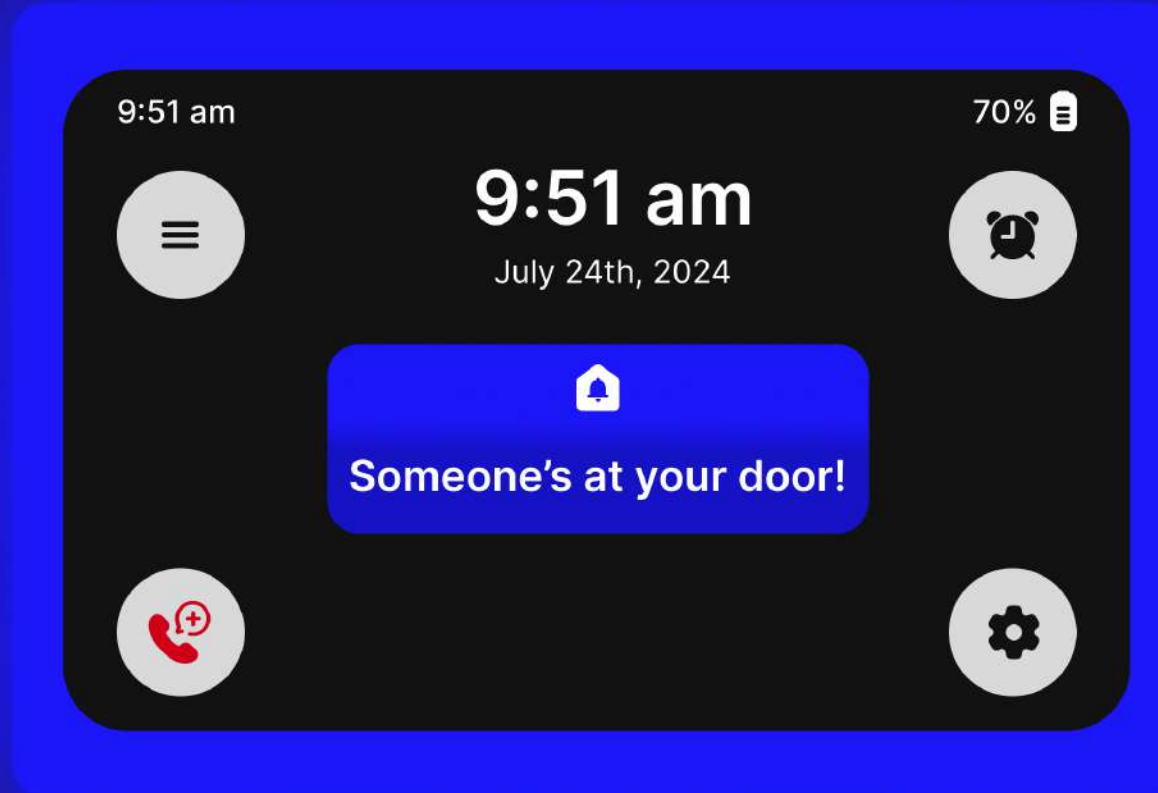
Ideally, a doorbell mechanism comes with the device

Someone presses
Lenora's doorbell



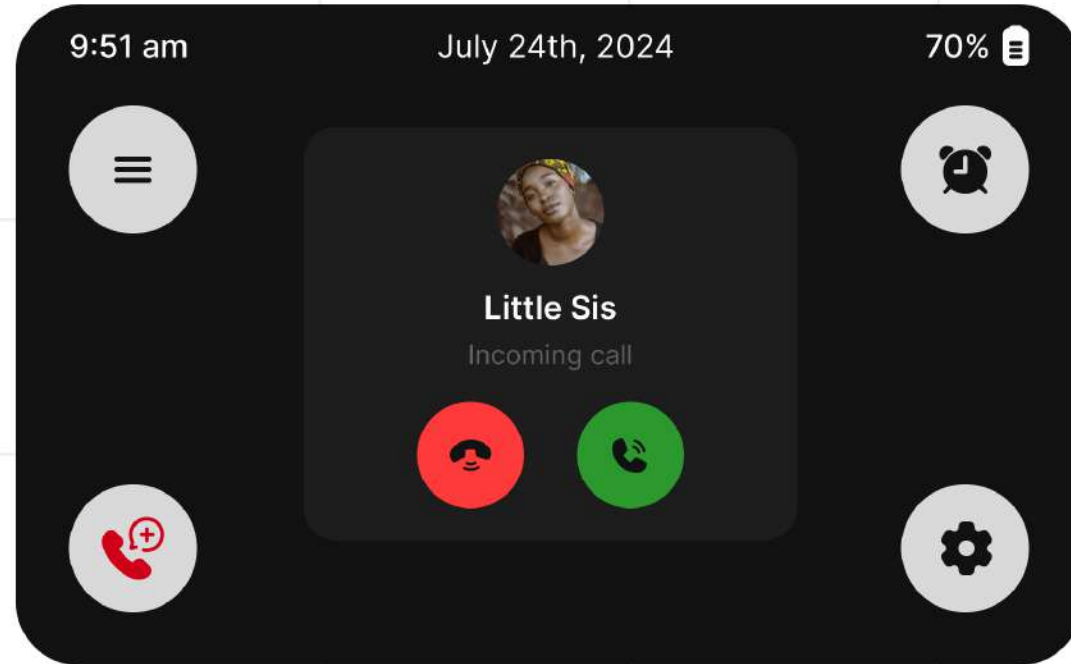
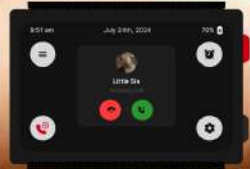
The device **vibrates in pulses** until the user swipes to acknowledge the notification. It also **tightens for 15 seconds** and **flashes a blue LED light** to ensure the alert is noticed.

Doorbell notification



Call Notification

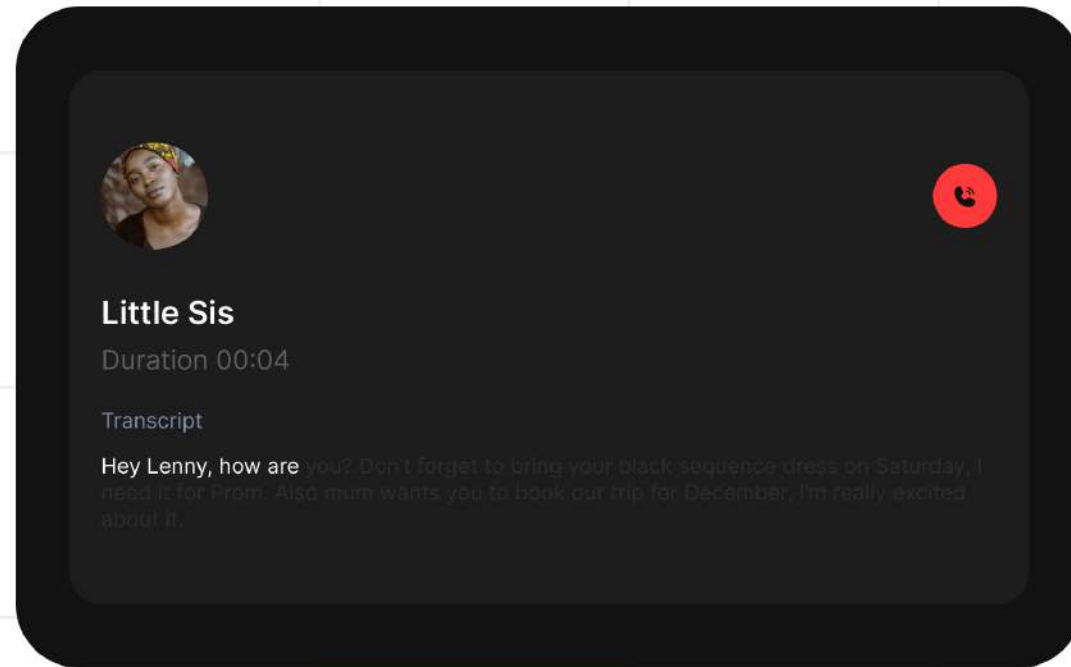
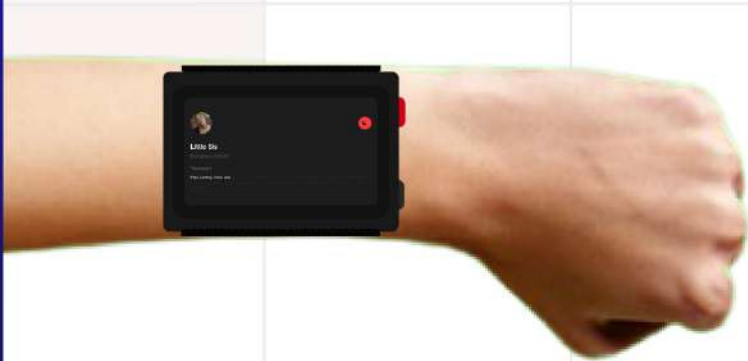
Lenora receives a call



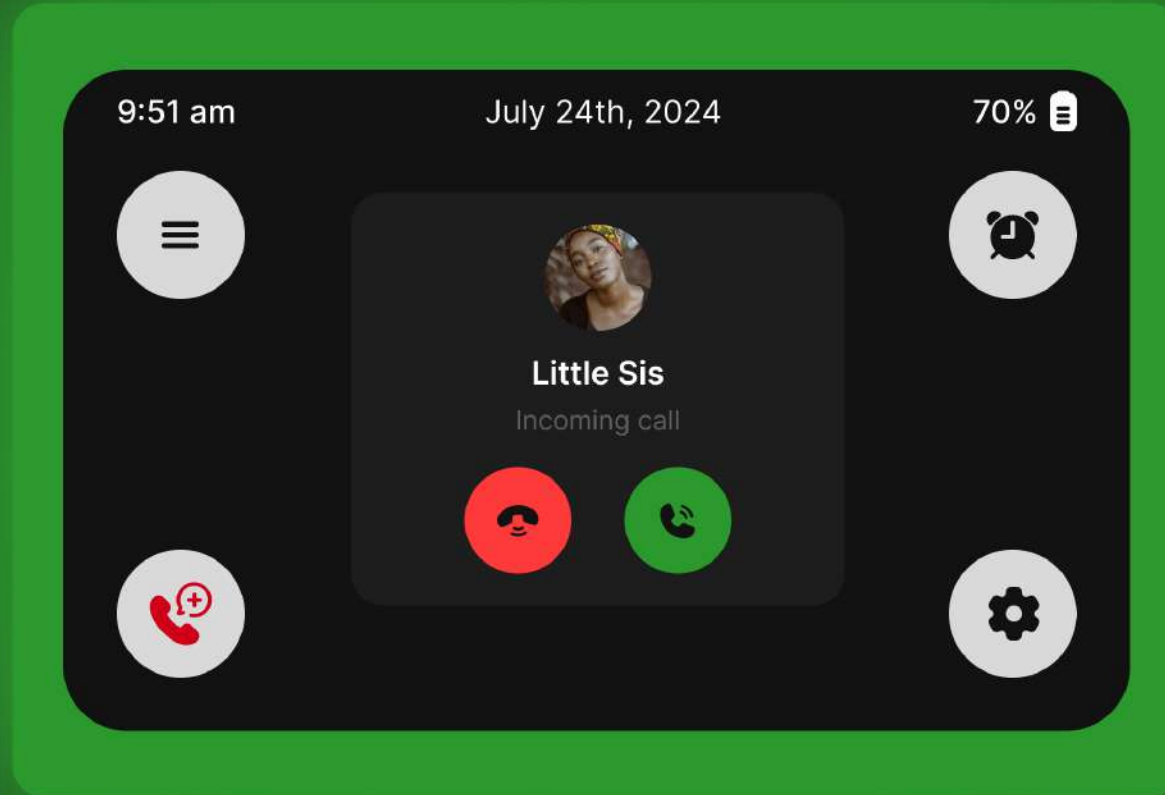
The device vibrates in a **pulses** followed by a pause, continues this cycle, **tightens for 10 seconds**, and flashes a **green LED light**.

Call

VibeGlow features **live transcription**, enabling Lenora to follow conversations in real-time and stay engaged effortlessly.

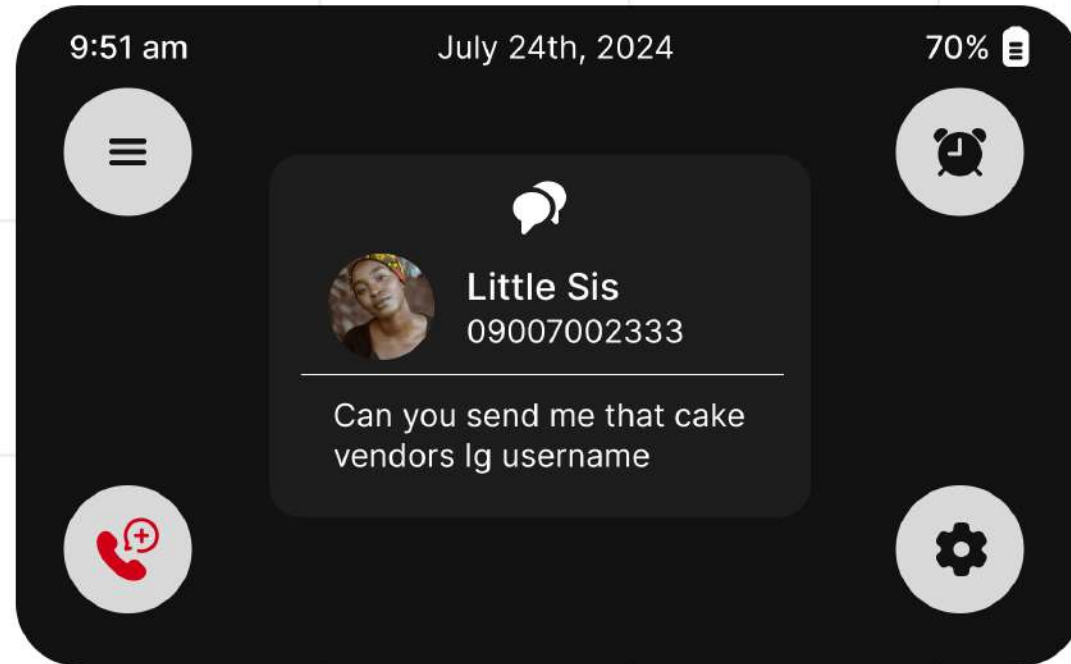
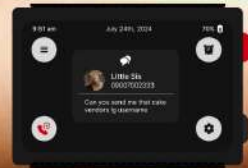


Call notification



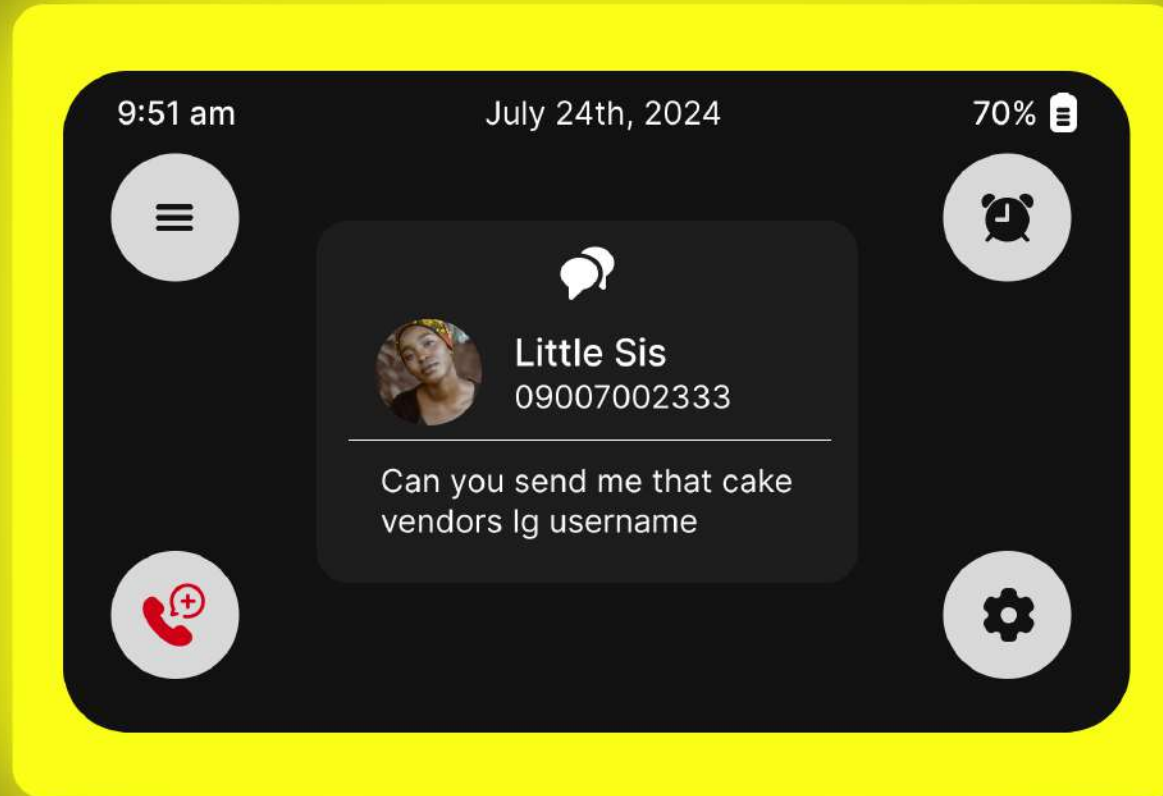
Message Notification

Lenora recieves a message

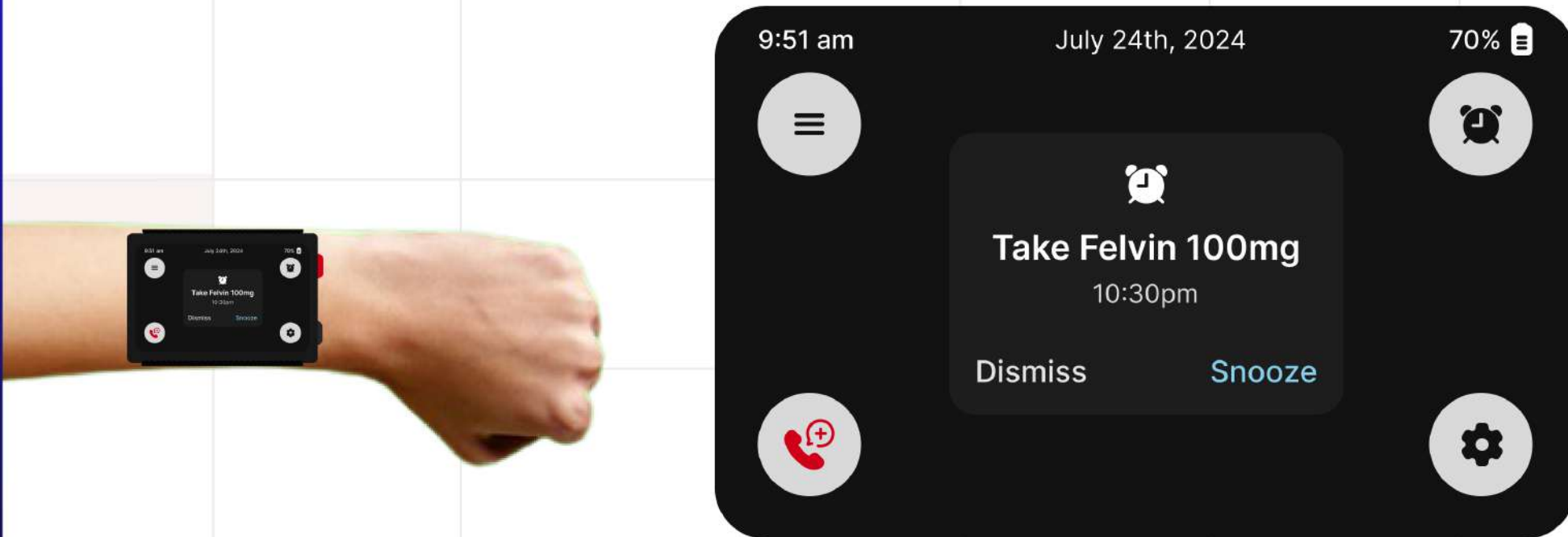


The device vibrates in pulses, tightens for 10s and flashes a Yellow LED light

Message notification



Alarm Notification



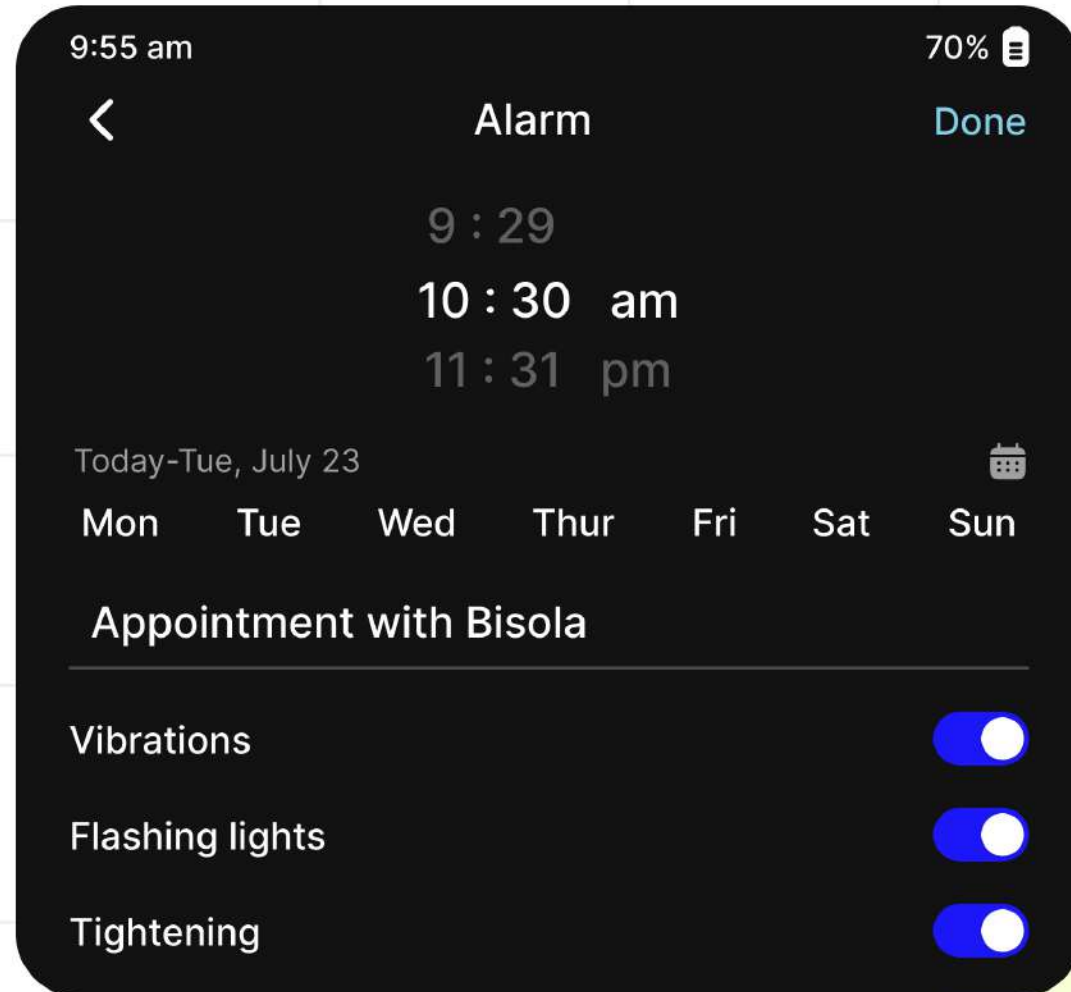
The device continuously vibrates till it's switched off, tightens (Slow, gradual tighten over 2 seconds, hold for 2 seconds, then release [15s]) and flashes a Red LED light

Alarm notification



Set Reminders

With Vibeglow, Lenora can easily set reminders for her daily tasks to help her stay organized.



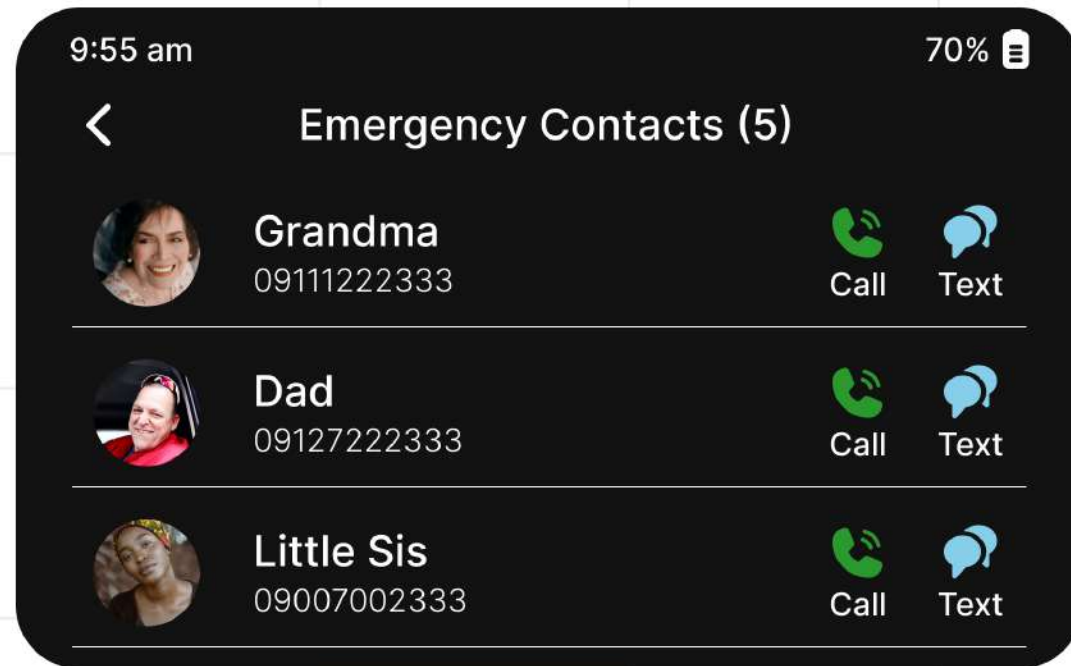
Battery

Lenora can easily check her battery status, see hours remaining, and switch to power-saving mode to extend usage throughout the day.



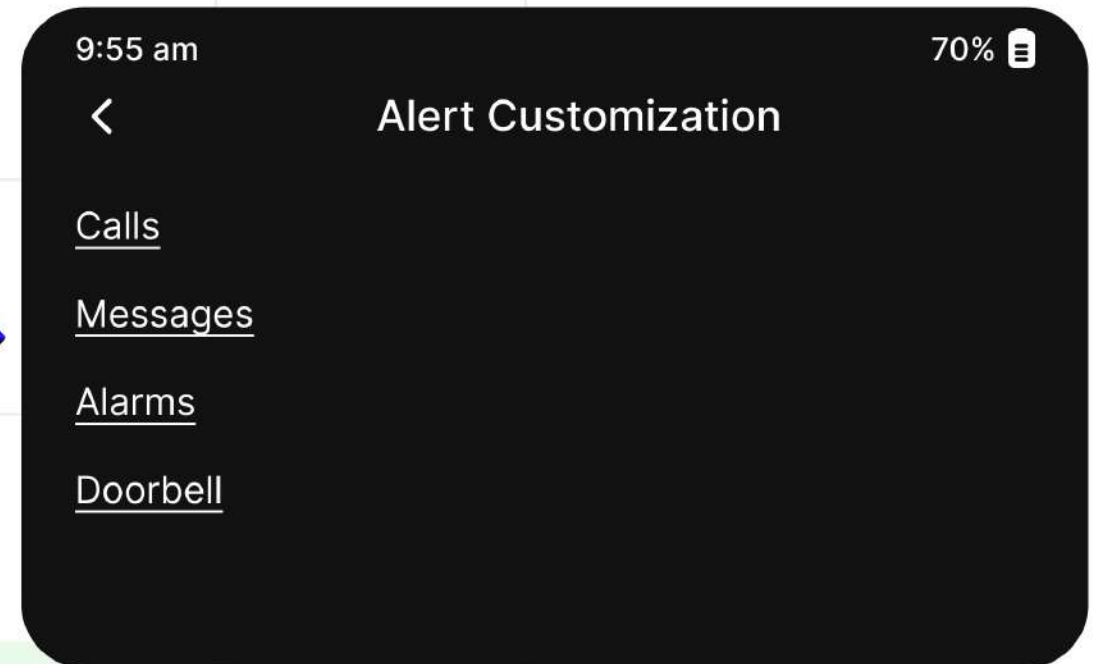
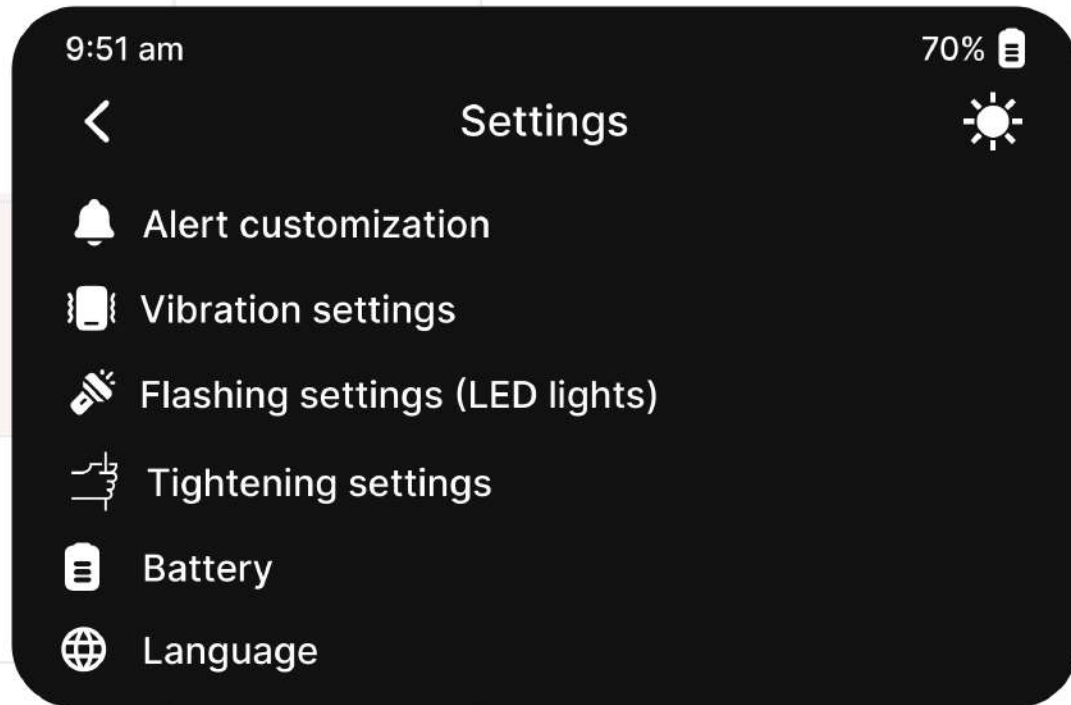
Emergency Contacts

Lenora can call or text her emergency contacts instantly. Calls include a live-transcribe feature, while texts allow quick, straightforward messaging.



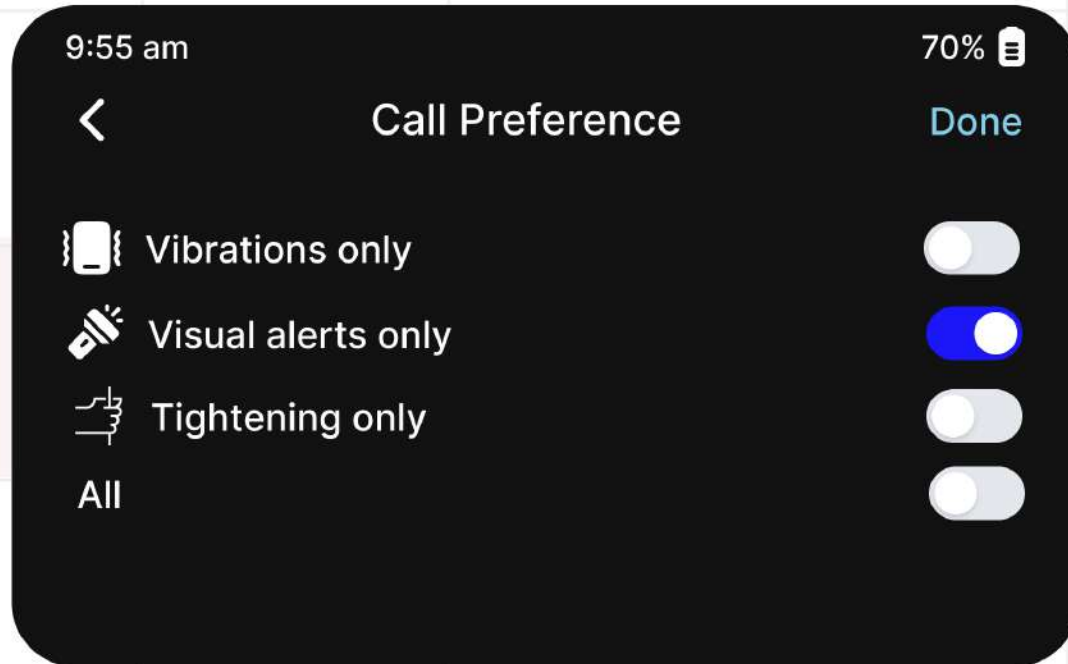
Settings

Lenora can customize her VibeGlow experience, adjusting alert preferences, vibration patterns, and options to suit her needs

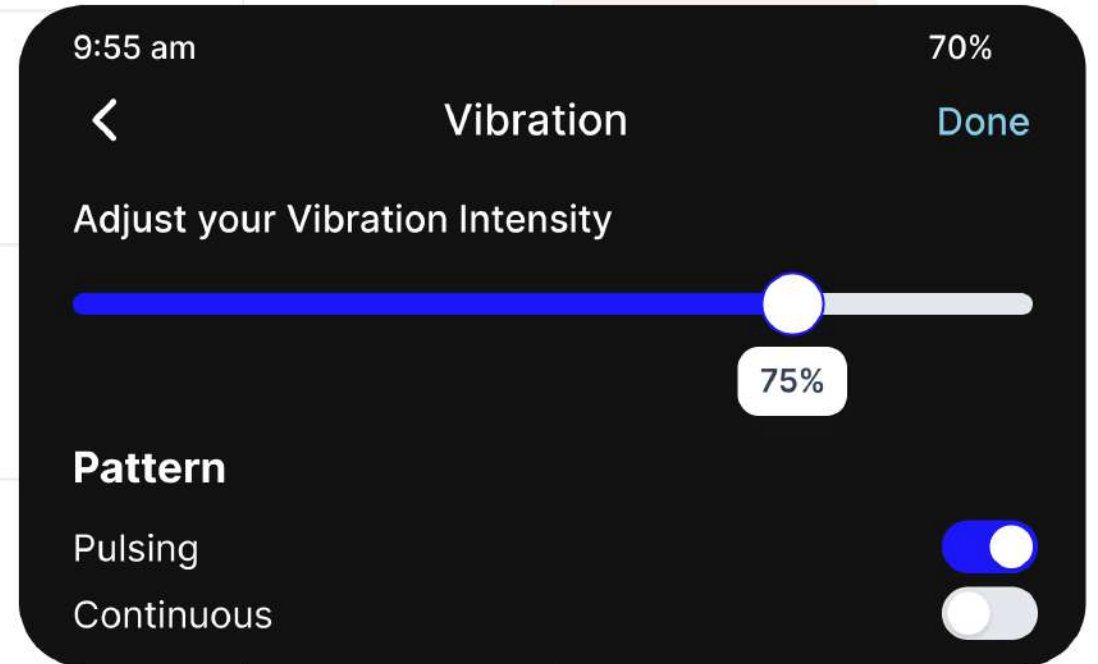


Tailor alerts for calls, messages, alarms, and doorbell notifications, so Lenora can prioritize what's most important and never miss a critical update.

Settings

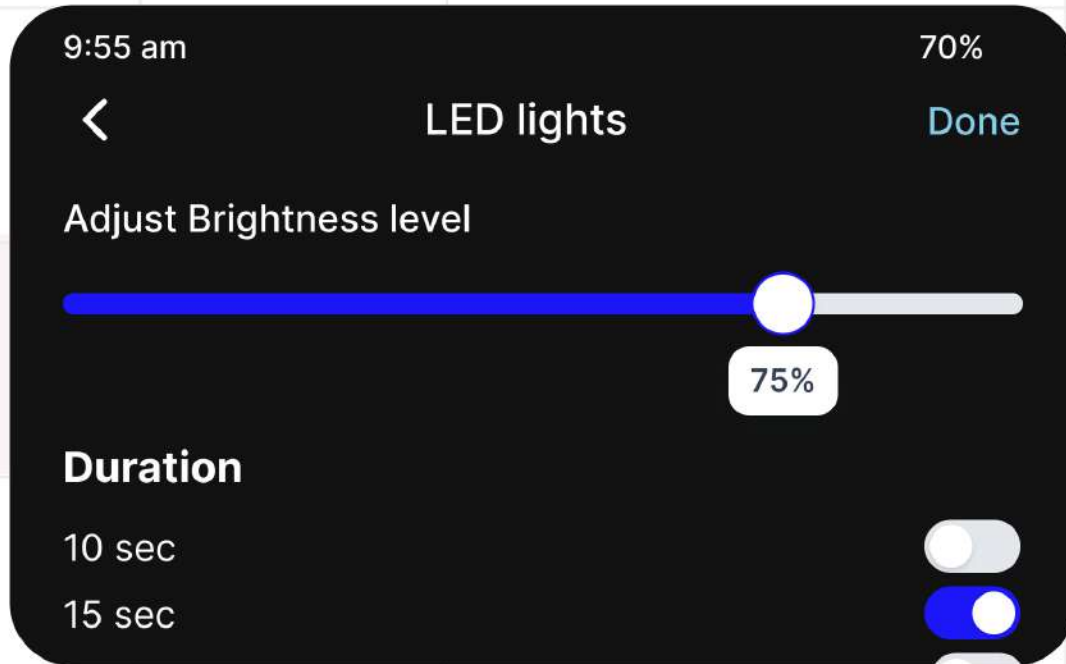


Lenora can customize call alerts to suit her needs, choosing from vibration only, band tightening, LED lights, or all three for maximum visibility

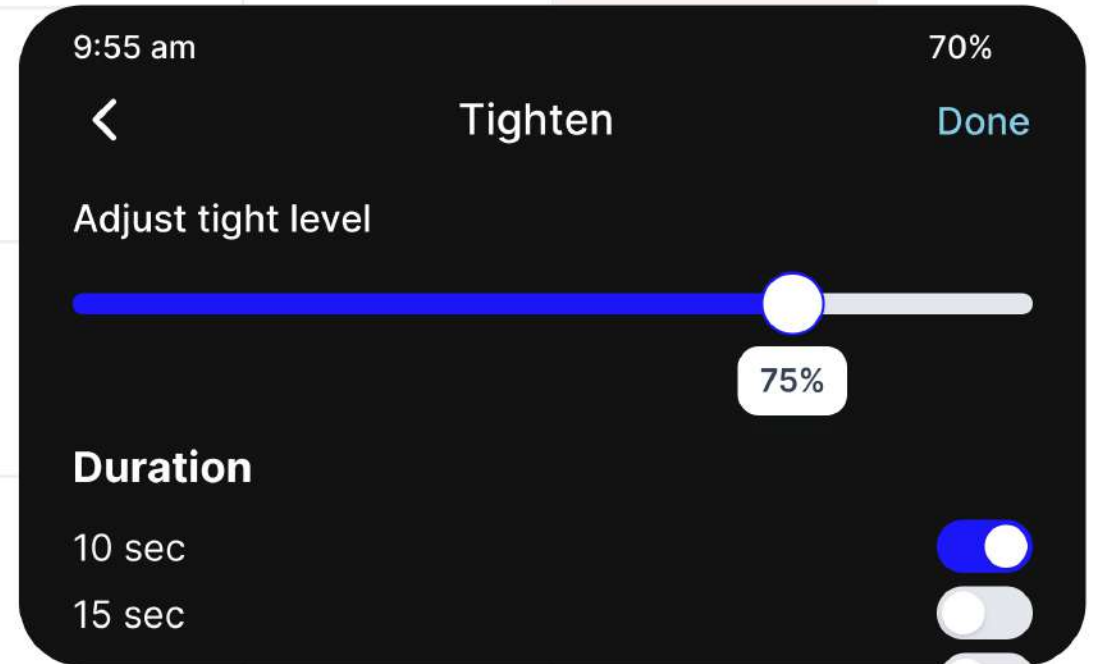


Lenora can adjust vibration patterns and intensity for her notifications.

Settings

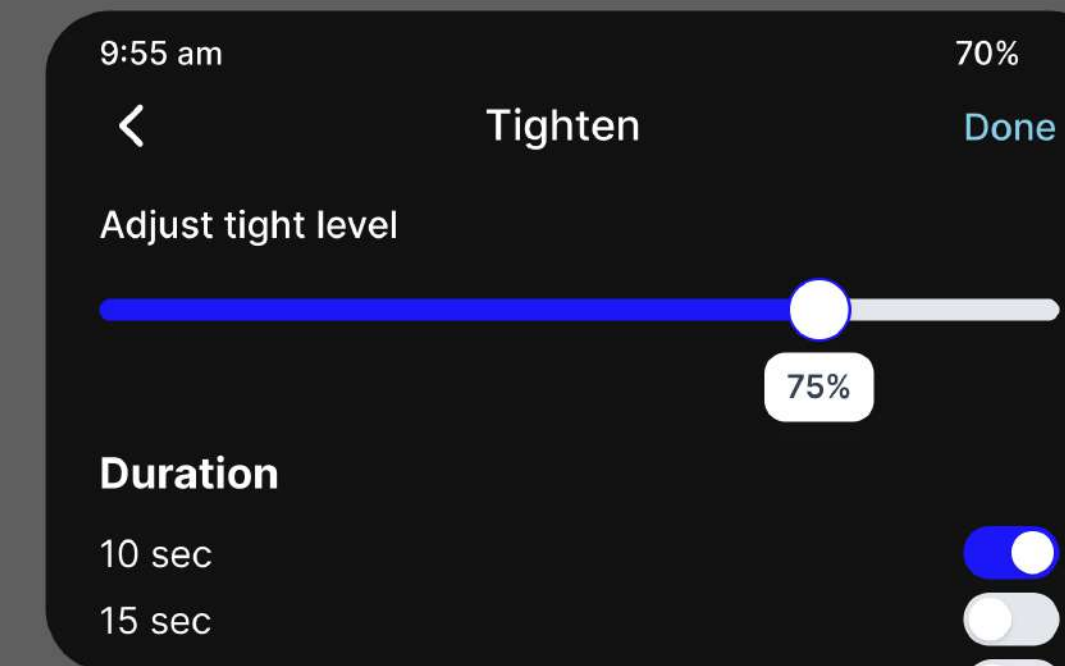
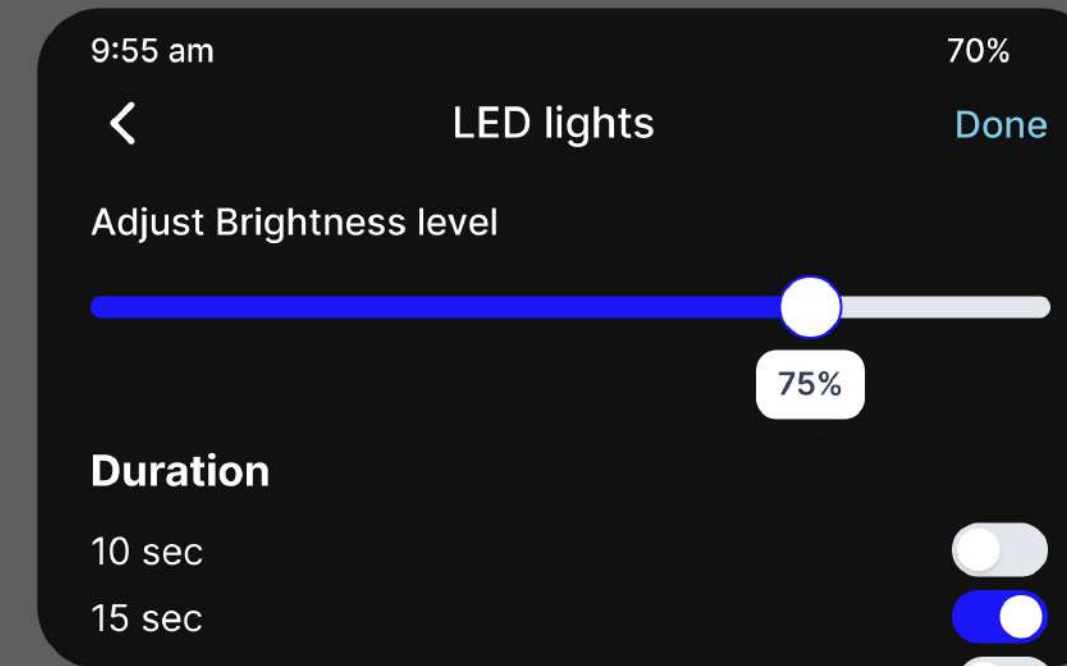
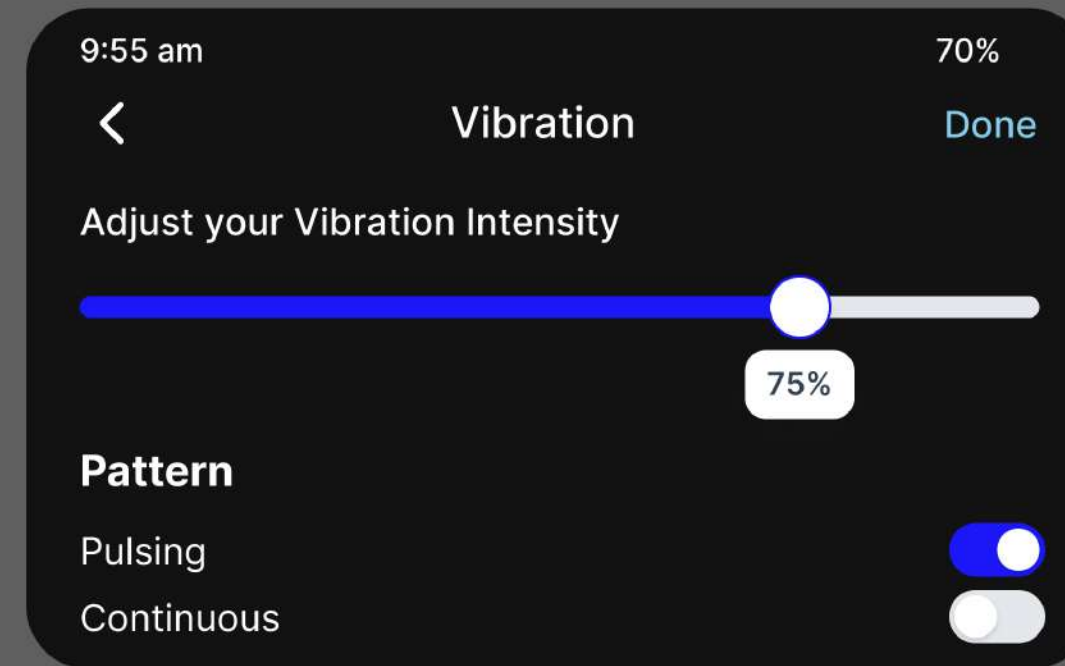
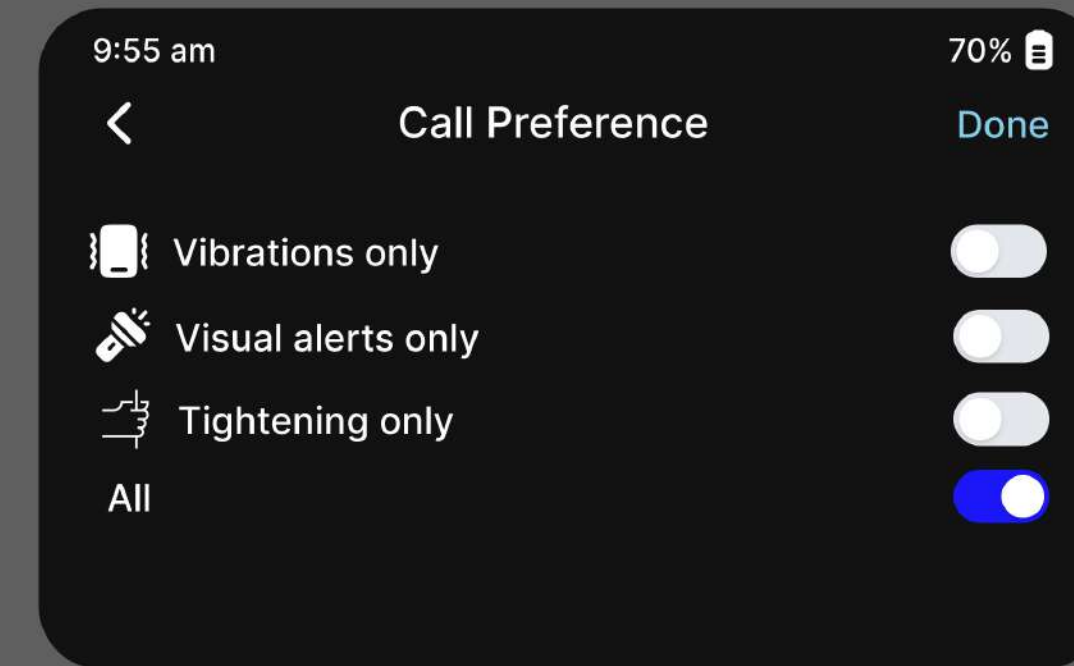
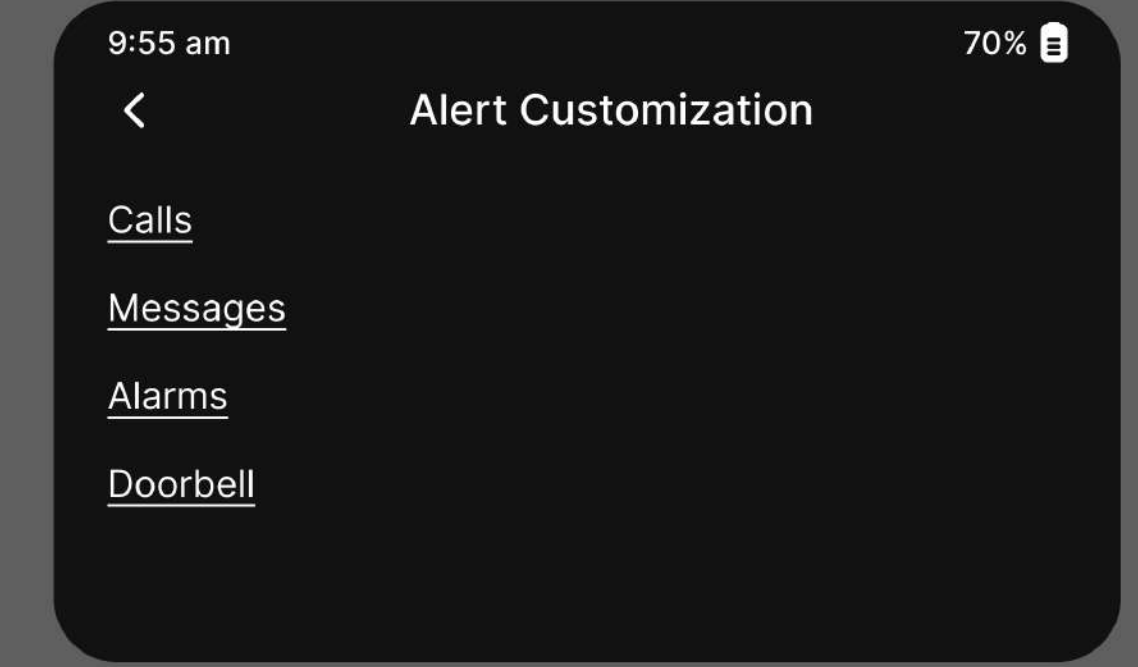
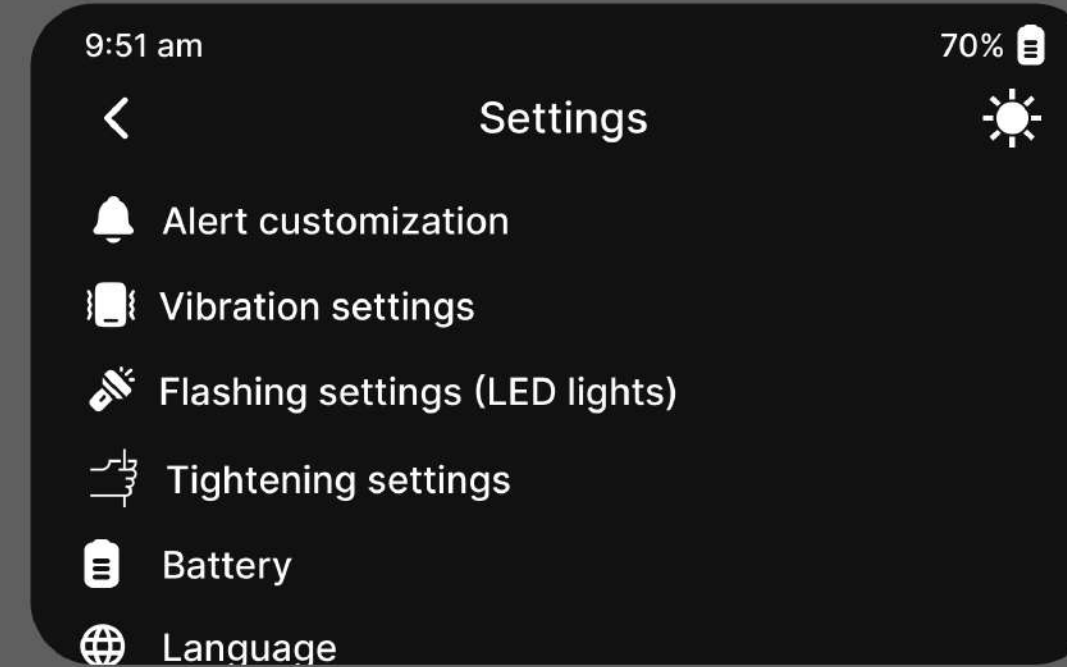
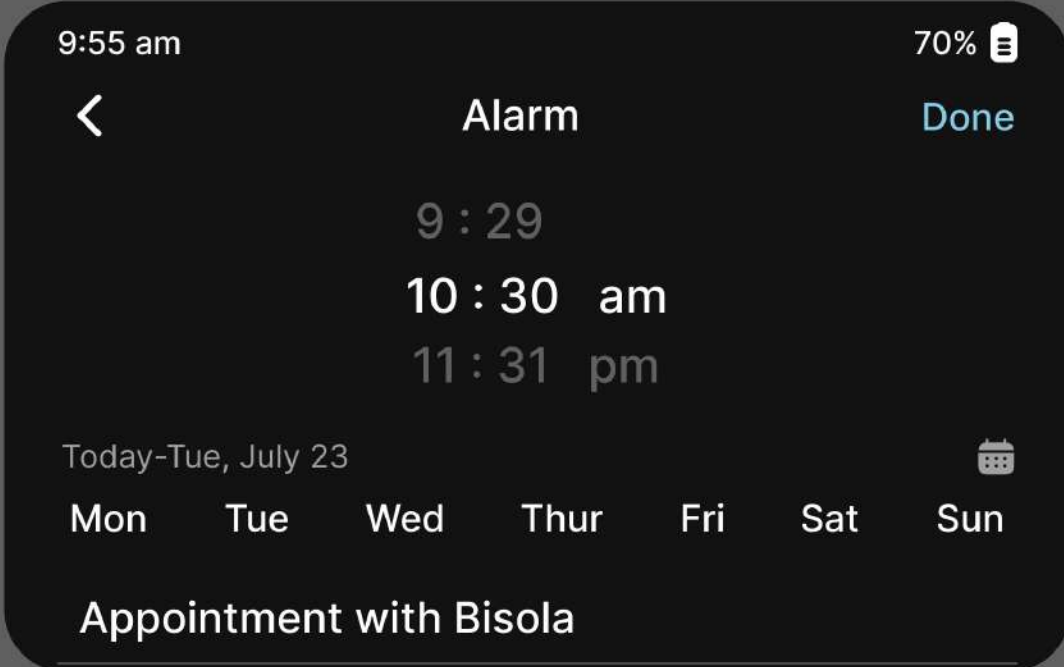
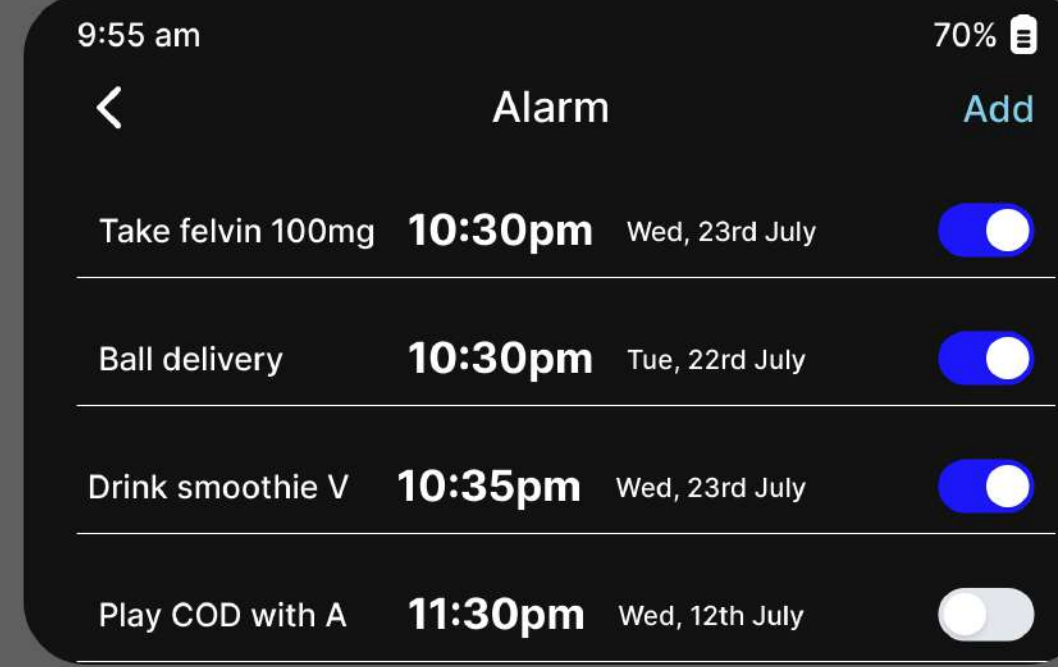
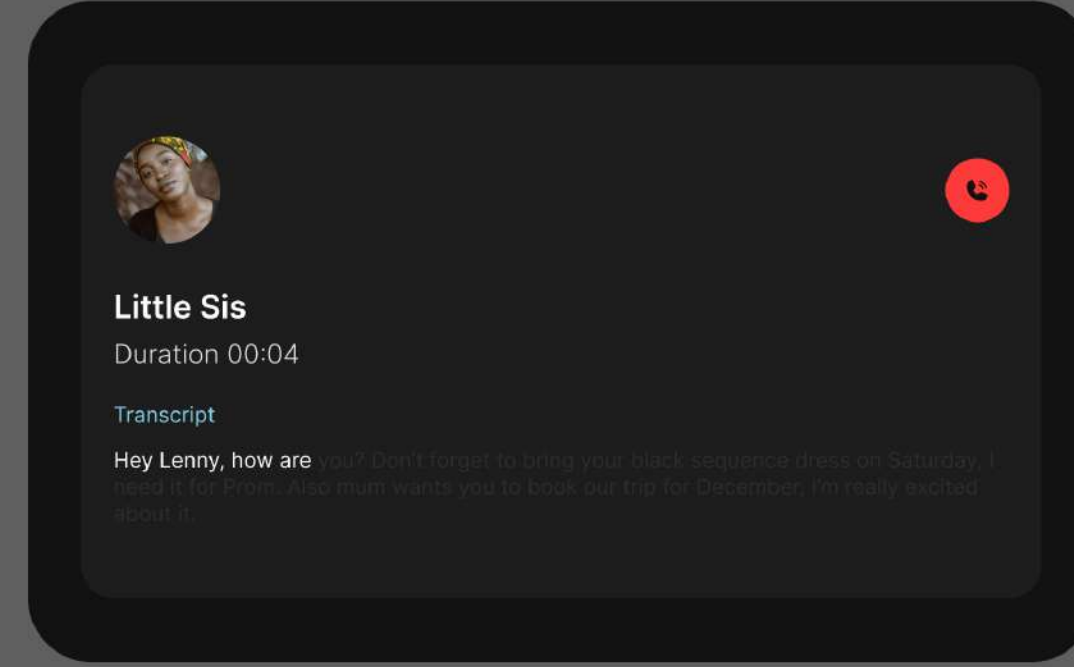
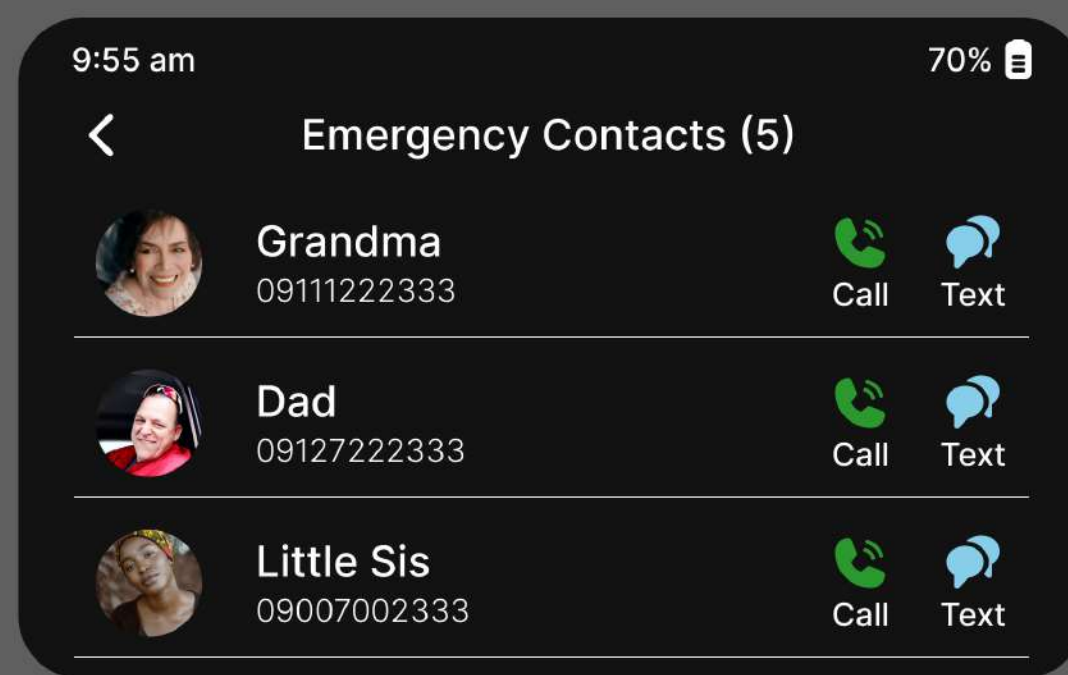
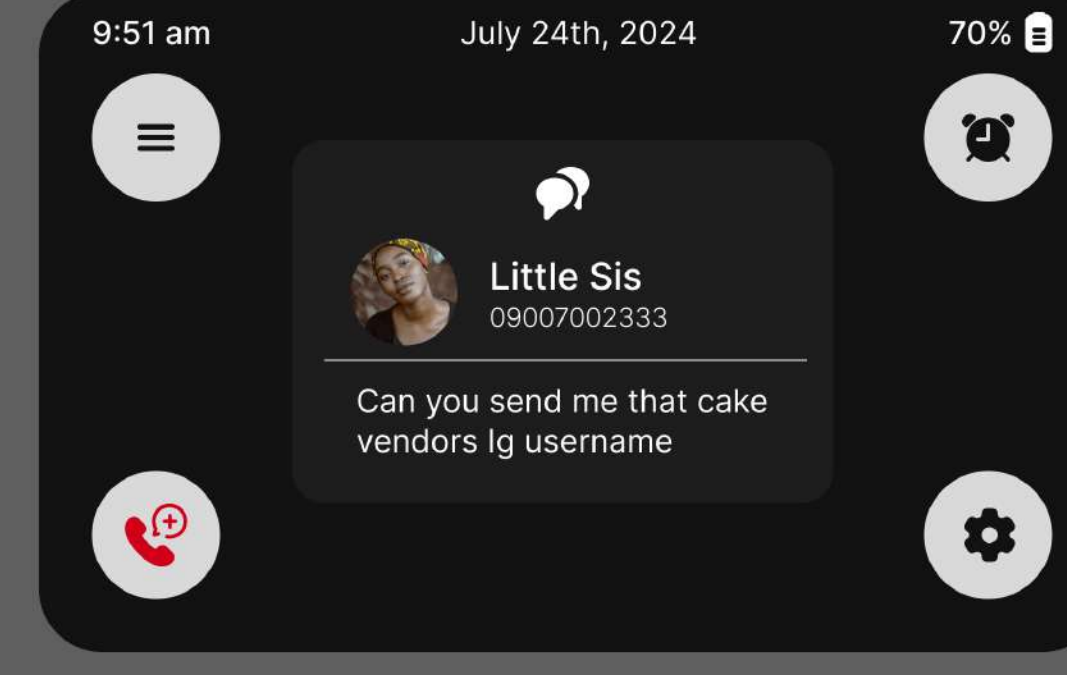
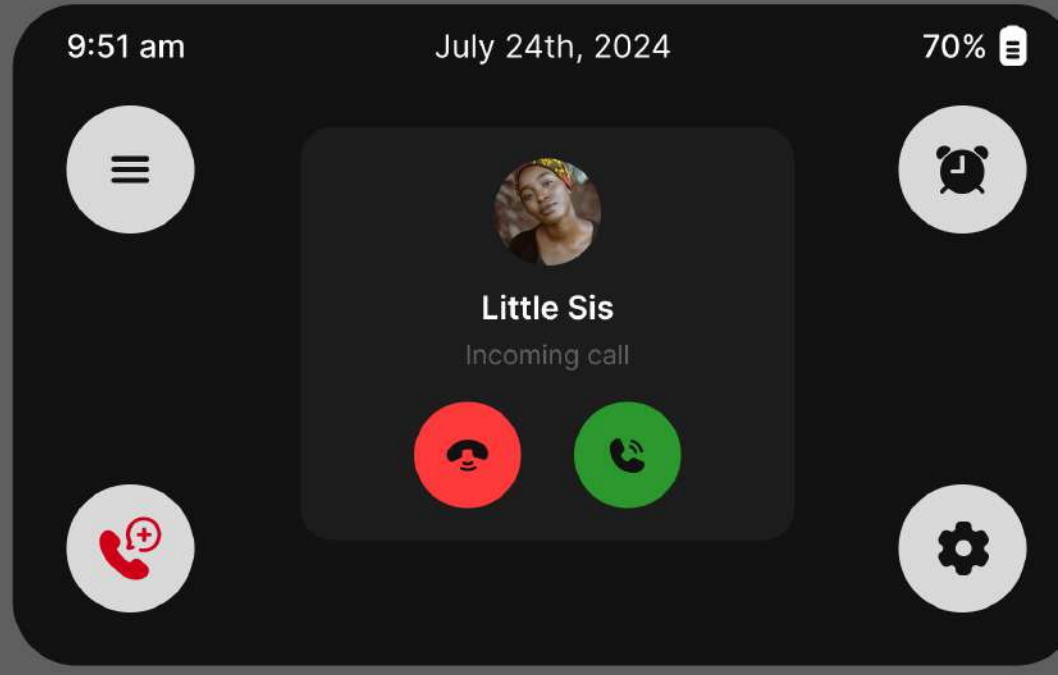
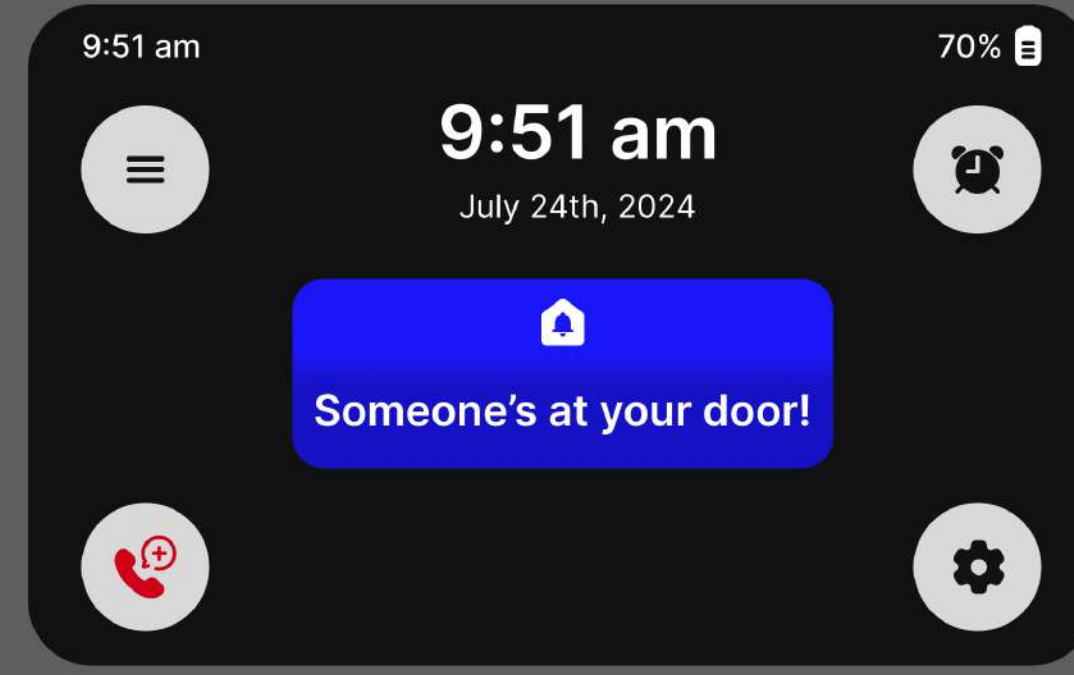
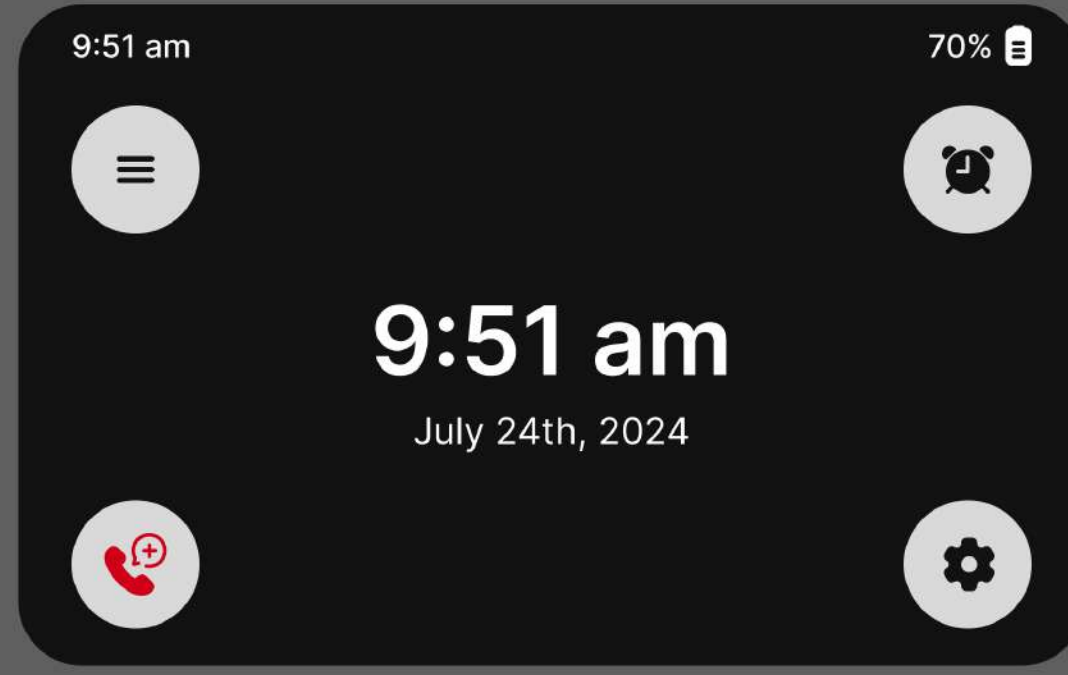


Enable or adjust LED flash alerts for a clear visual cue, perfect for quiet or high-visibility situations.



Set band-tightening preferences for added security during important alerts.

All screens



Light mode

