

"Creating is an innate part of human nature"

A selection of personal and professional projects

AMAY KATARIA

2023

"The infamously hidden knowledge is called intuition"

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CHAO!

My name is Amay Kataria and I like to create new forms of media interventions that fuse warmth, empathy, and communal interaction with network technologies. In the past 11 years, I have worked as a software engineer at Microsoft, developing communication systems for Skype, as well as an independent new-media artist, developing interactive experiences that tell personal stories by remediating industrial technologies.

For this portfolio, I have carefully curated three projects that demonstrate my unique blend of engineering expertise with creative expression.

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SUPERSYNTHESIS

2022

Personal

24 LED lights, raspberry pi, vinyl, 3x8 relay channels, 3D printed blocks, 100 ft electrical cables, speakers, custom software



ABOUT

Supersynthesis is an interactive audio-visual installation that utilizes the medium of light and sound to craft a communal experience.

ROLE

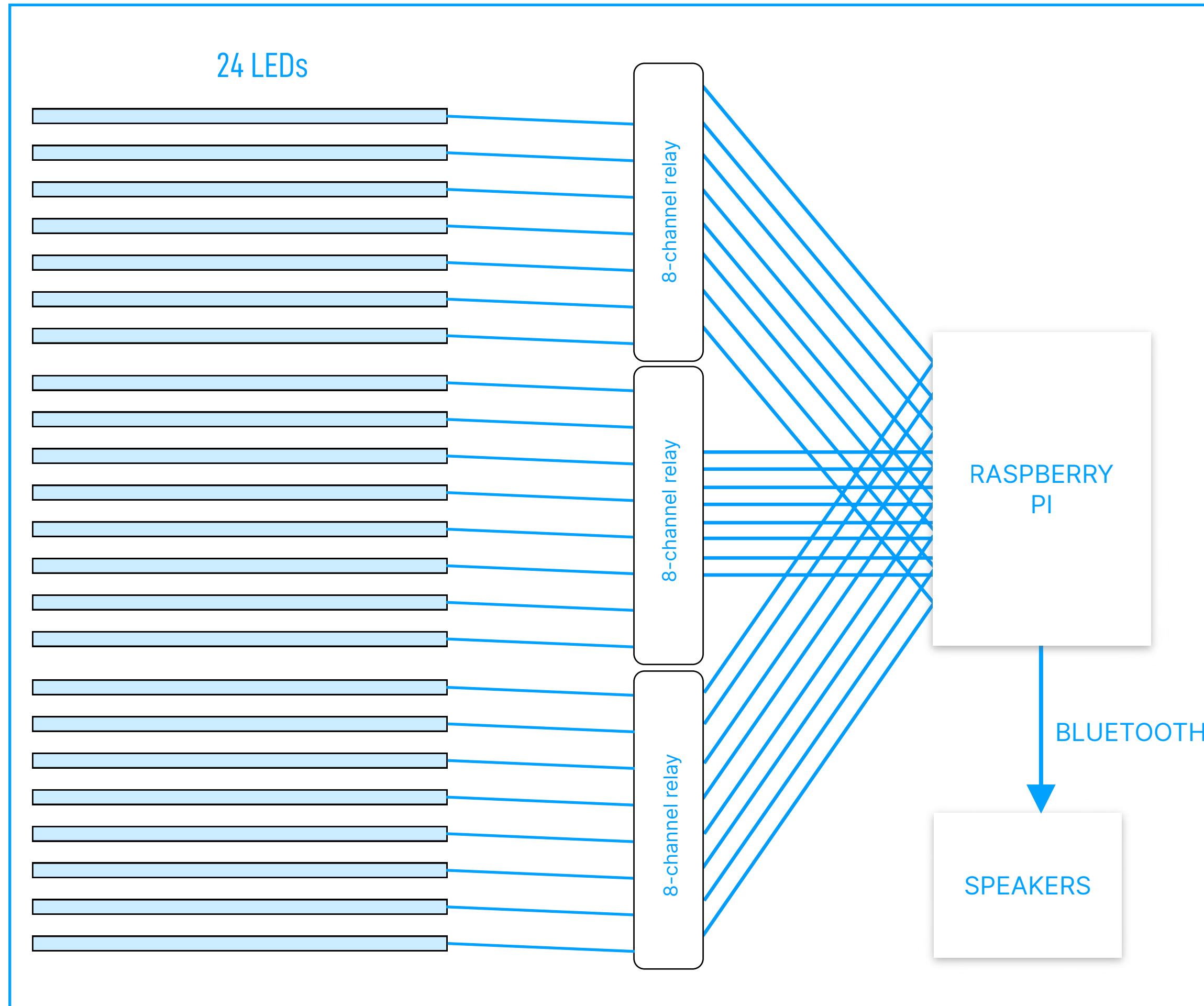
concept, parametric architecture, fabrication, web design, frontend, backend, hardware, engineering

KEYWORDS

#waves #sound #light #publicart #performance #instrument
#reactjs #p5js #python #socketio #nodejs #heroku #puredata
#raspberrypi

COMMUNAL COMPUTING

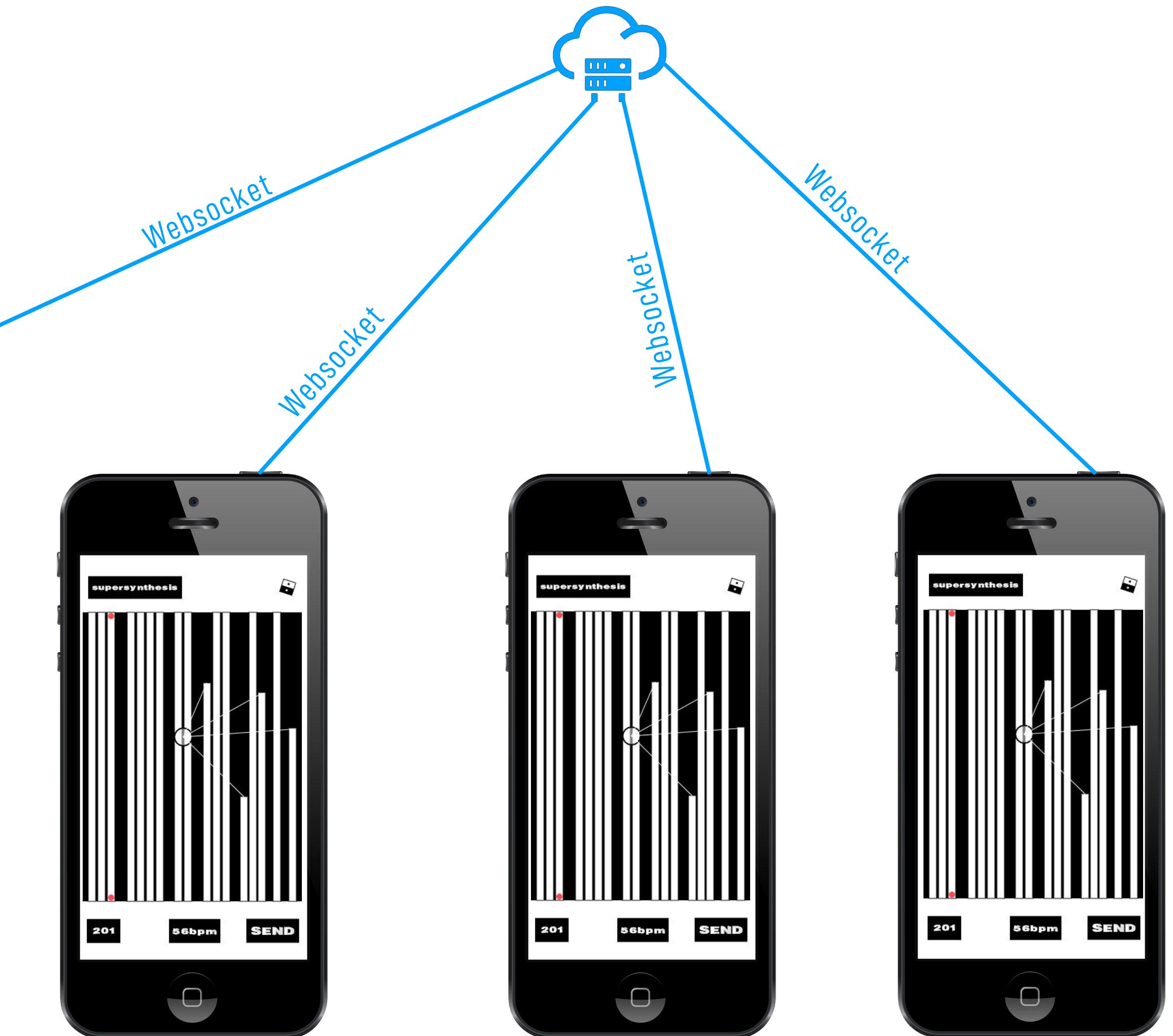
The network architecture runs a master sequencer in the cloud that coordinates communication between multiple clients that connect with it.



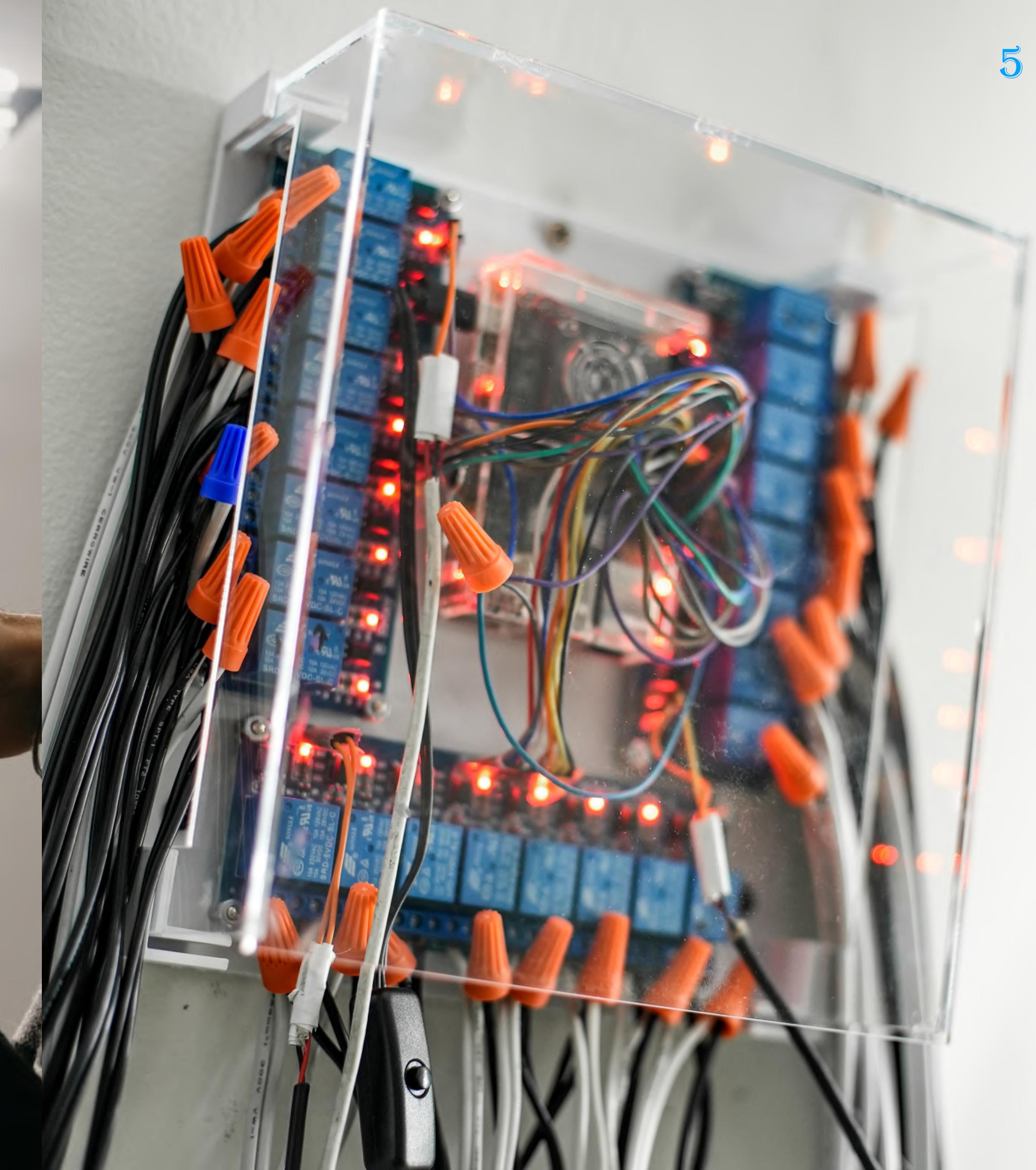
PHYSICAL INSTALLATION

SEQUENCER IN THE CLOUD

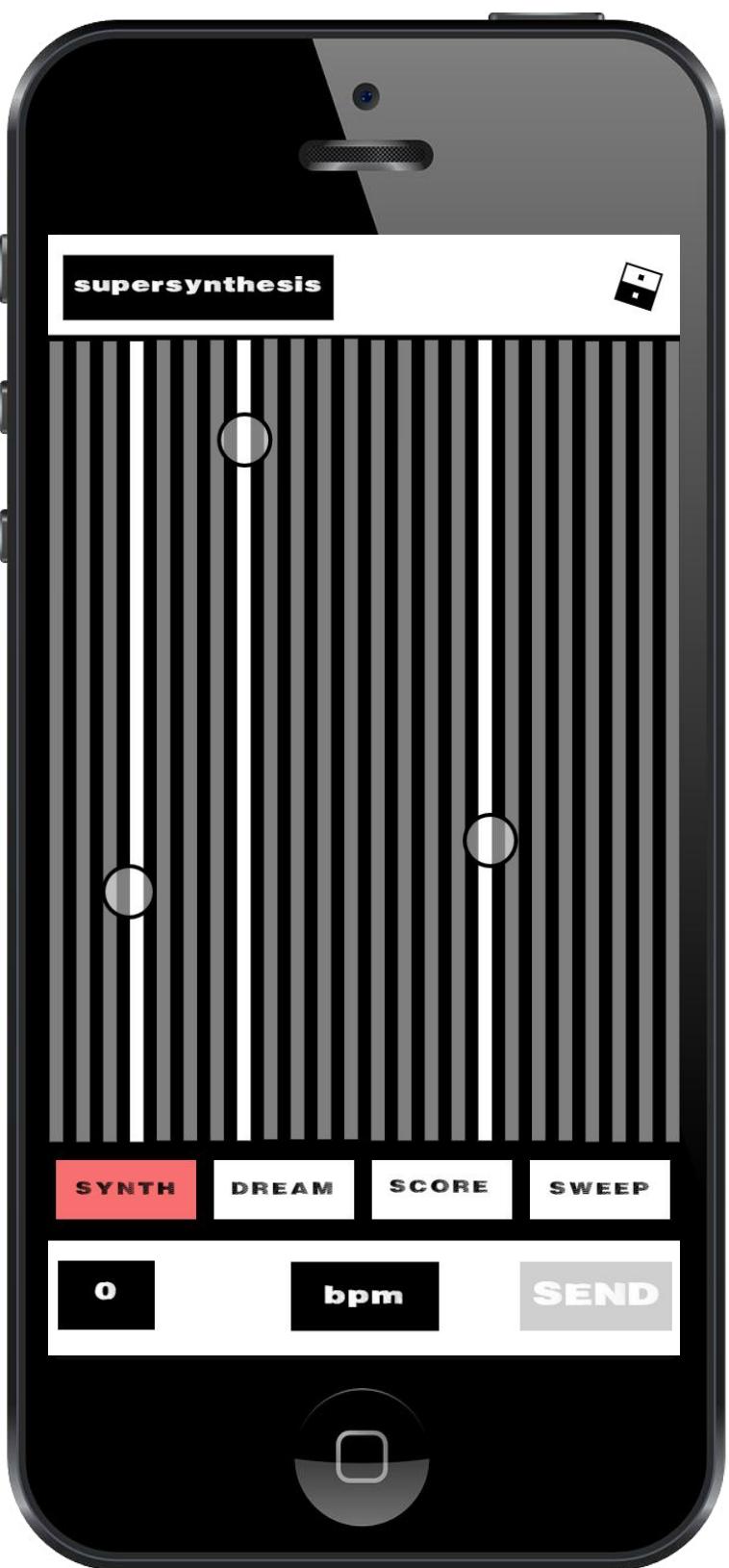
Database stores user generated templates



<https://supersynthesis.art>

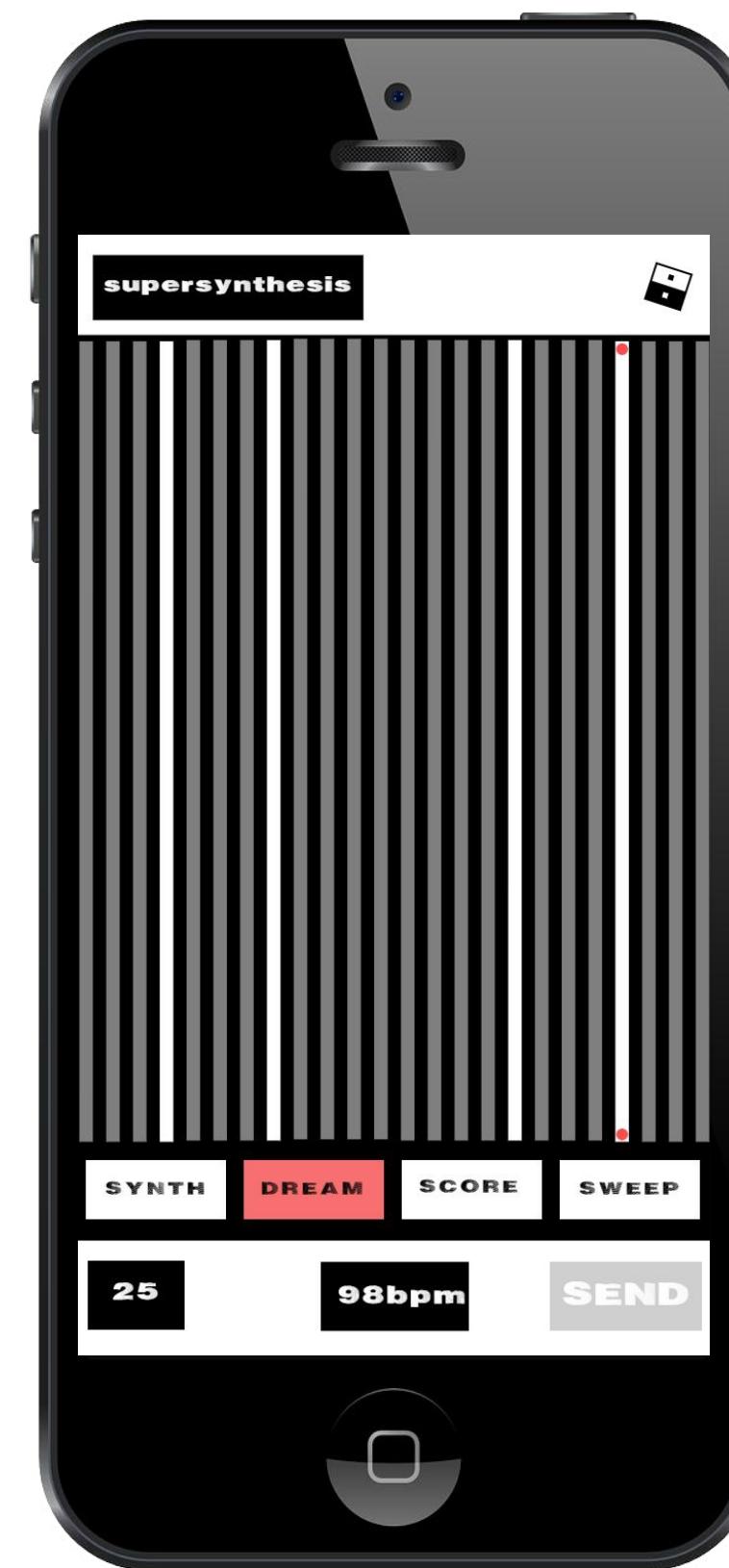


USER INTERACTION MODES



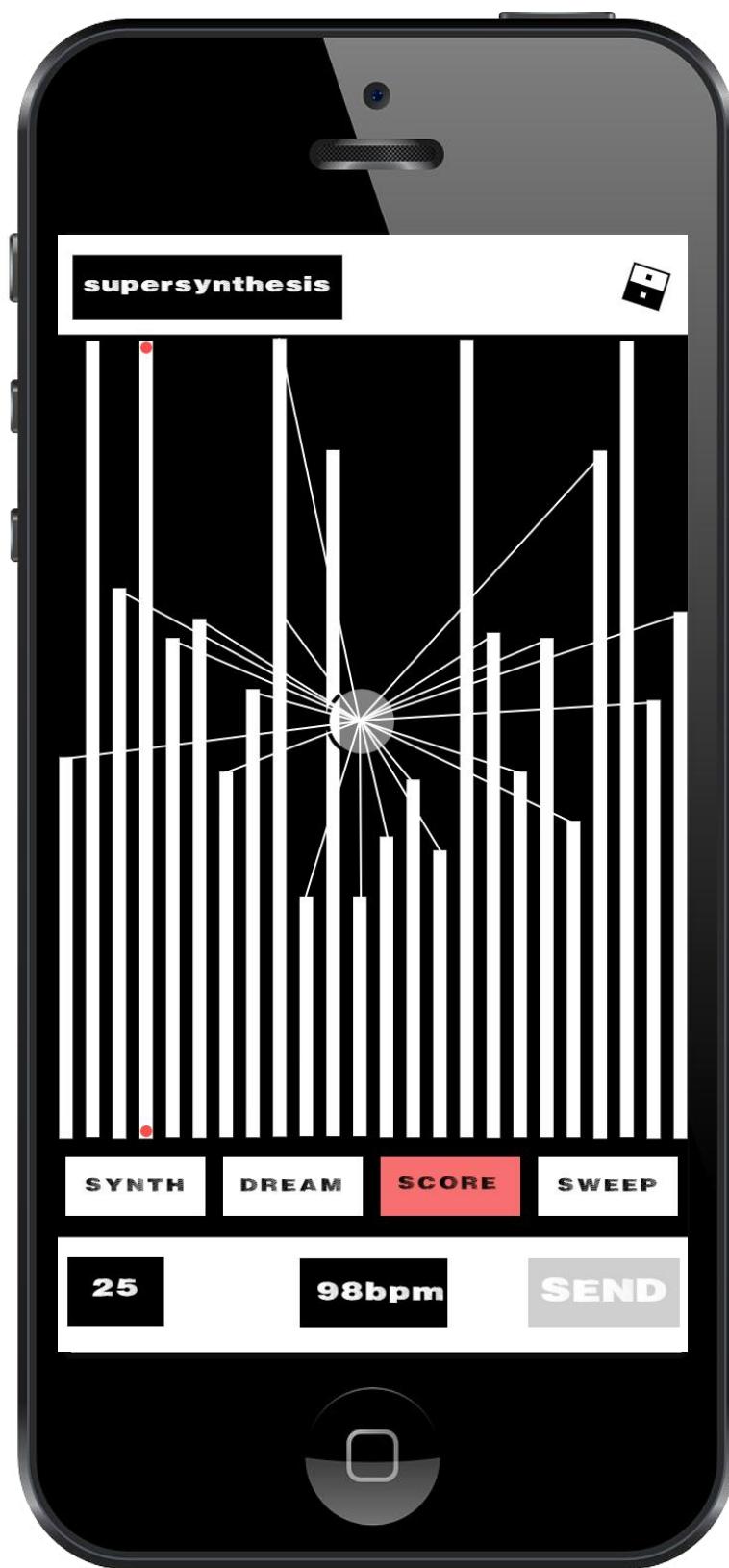
SYNTH

Multitouch interaction like a synthesizer, with multiple clients



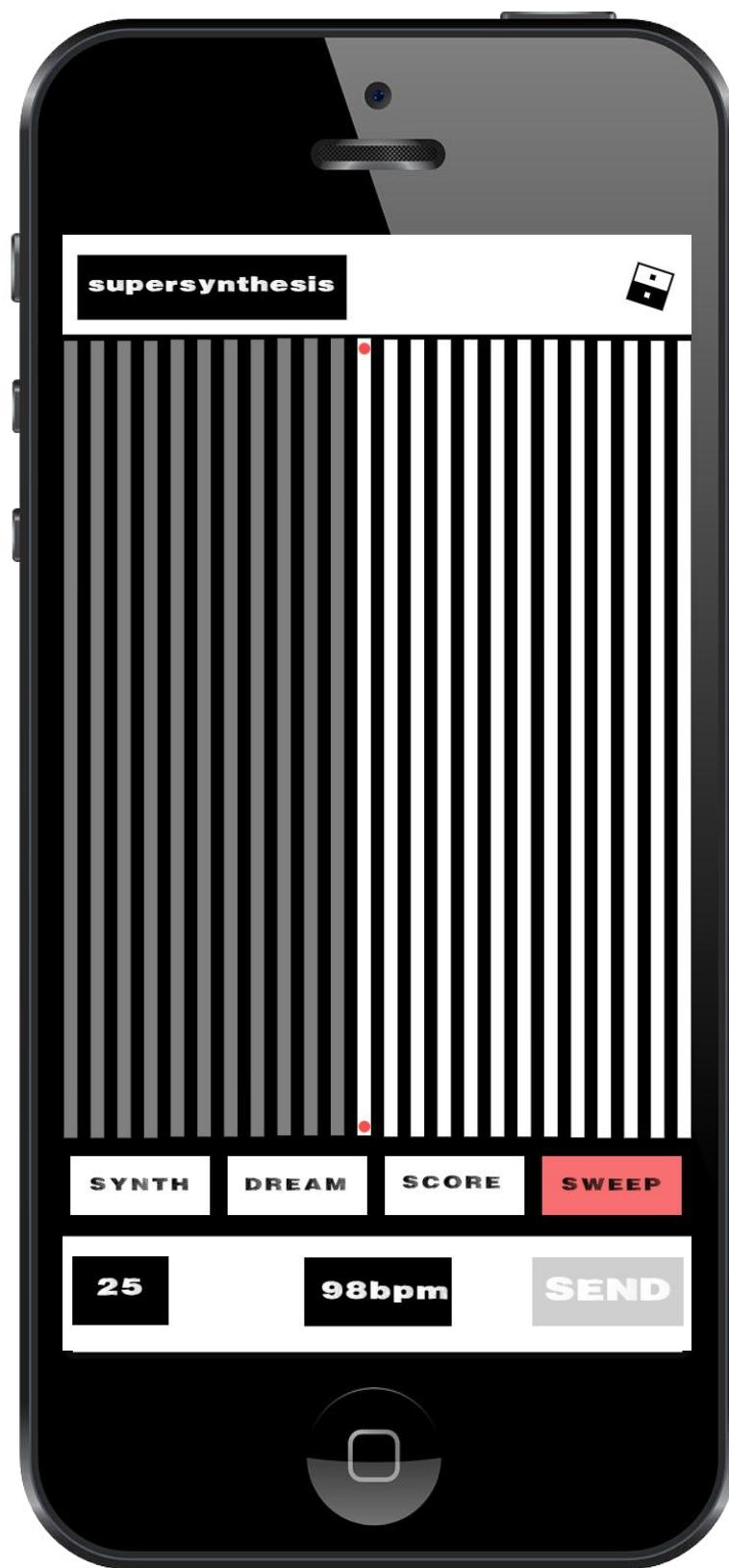
DREAM

Randomly sequence previous scores created by others, stored in the database



SCORE

Create a new custom score and store it in the database



SWEEP

Run hardcoded scores sequenced randomly between each other



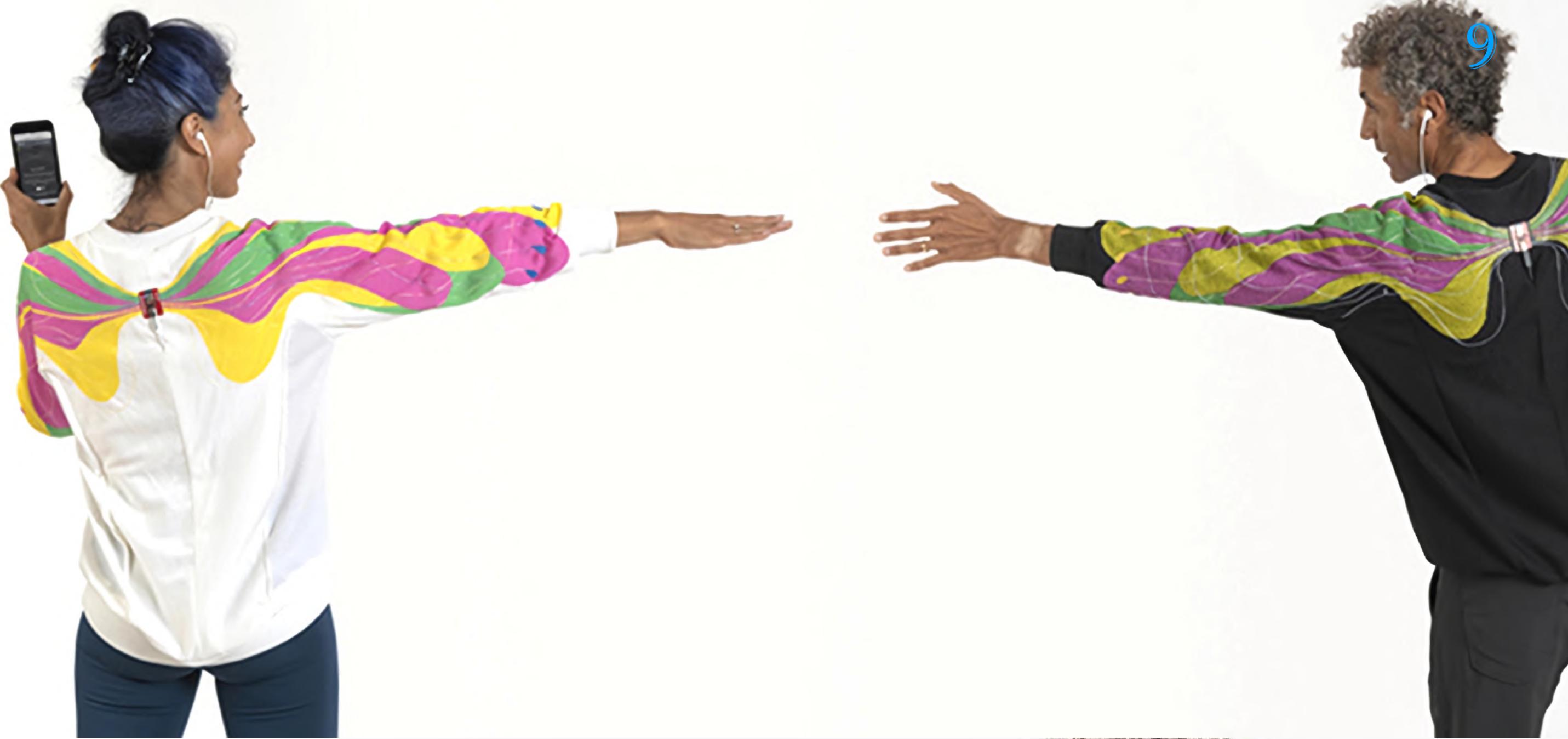


EMBROIDERED TOUCH

2021

client: Anke Loh (Fashion Technologist)

custom bonded garment, heat sensitive thread, touch sensors, arduino, custom software



ABOUT

Embroidered Touch is a hardware-software engineering commission to create a communication system between textiles bonded with cutting edge sensor technology.

ROLE

arduino software, bluetooth communication, frontend, backend, software architecture

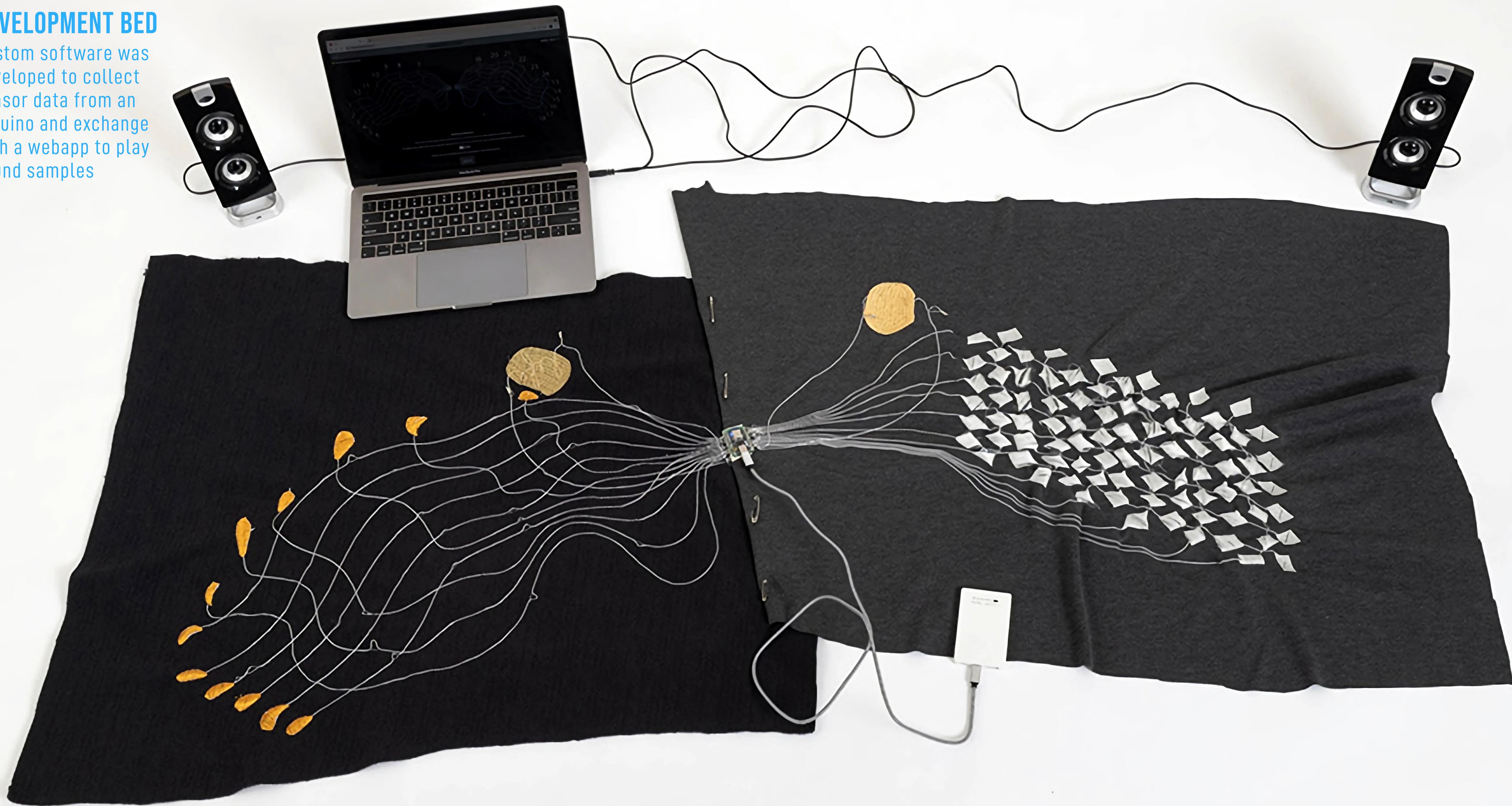
KEYWORDS

#fashion #touch #communication #connection #iot #fullstack
#reactjs #nodejs #heroku #arduino #bluetooth #sensors #sound

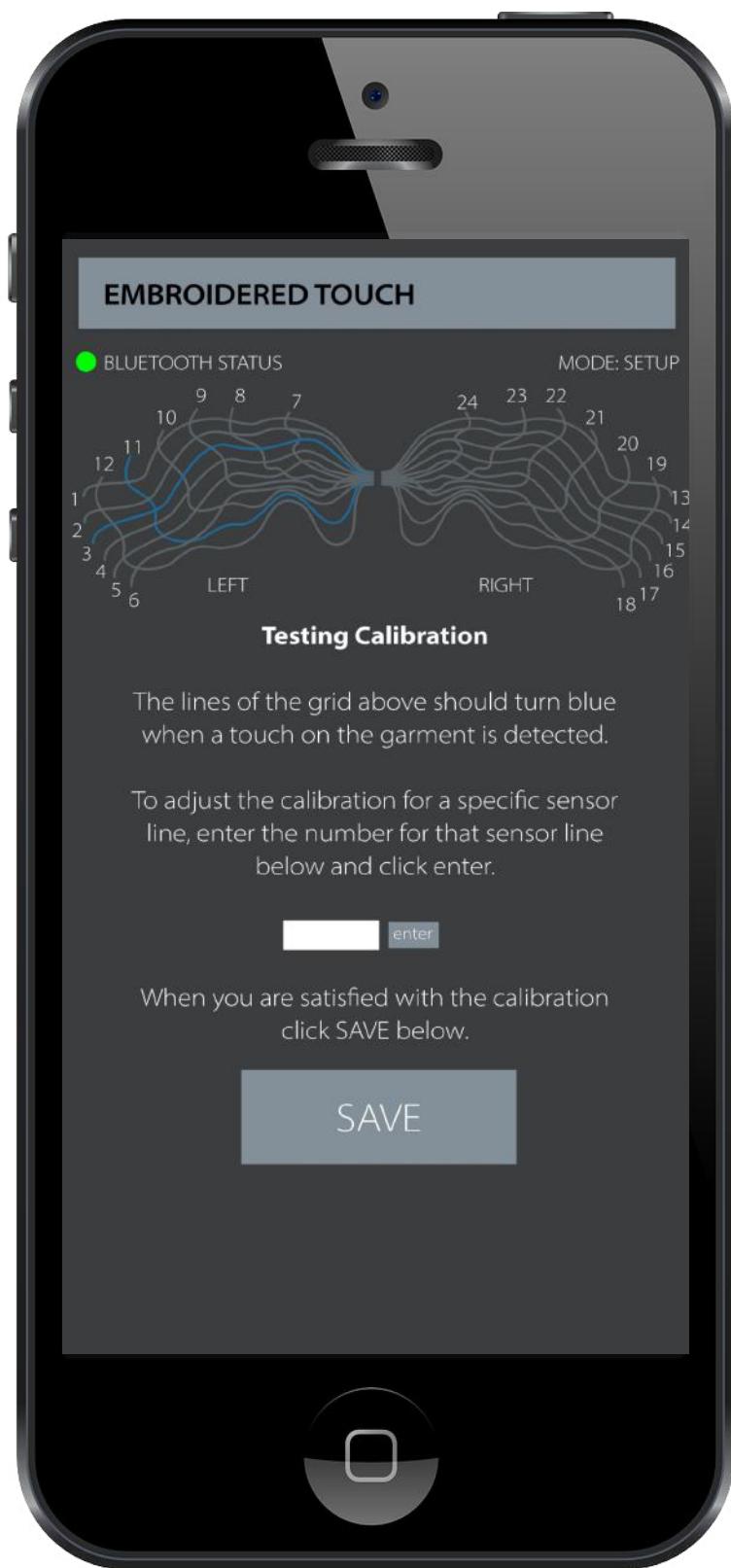


DEVELOPMENT BED

Custom software was developed to collect sensor data from an arduino and exchange with a webapp to play sound samples

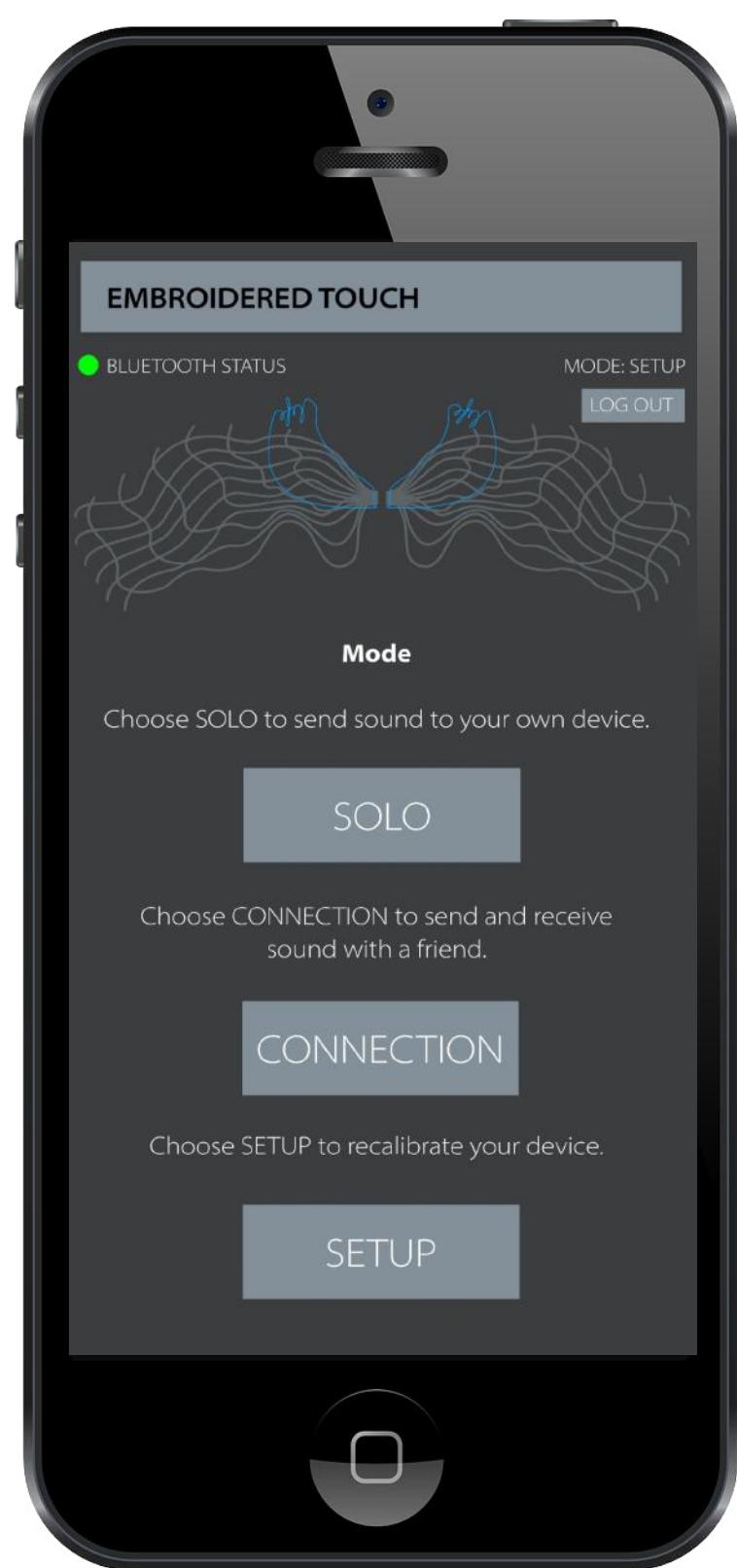


USER INTERACTION



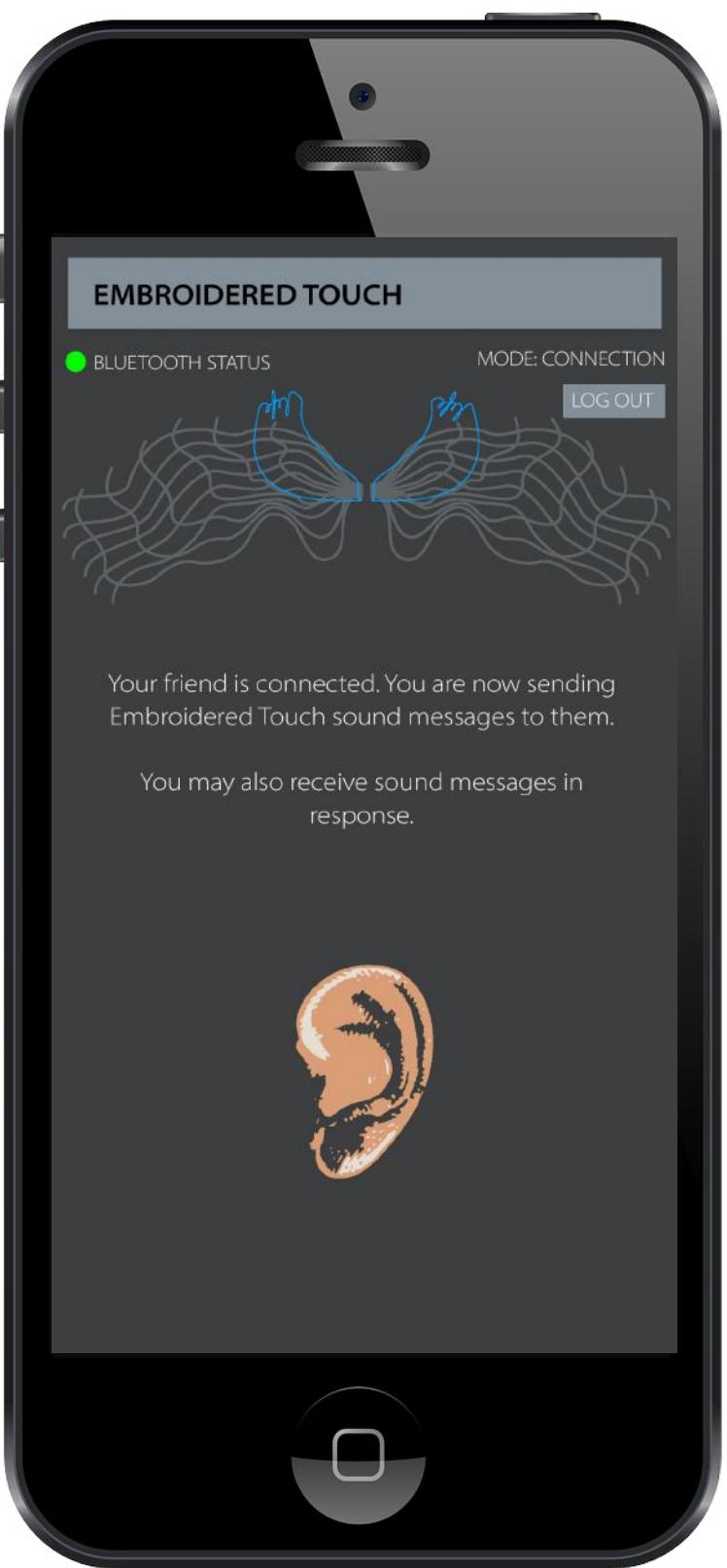
CALIBRATION

Interactively calibrate touch sensors on the garment



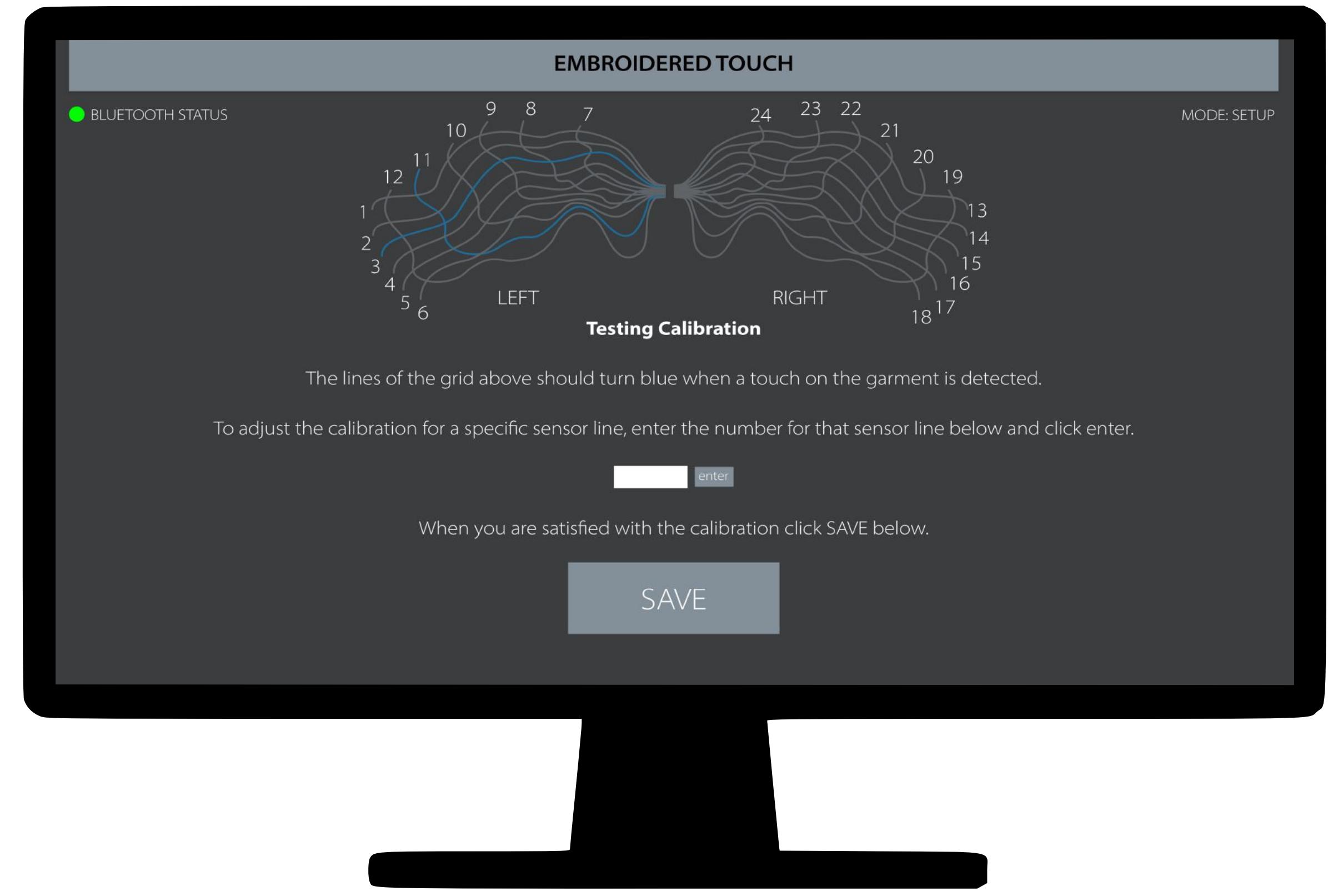
MODES

Modes activate different user experiences



CONNECTION

Connect with another friend and send them sound



CALIBRATION

Responsive experience for multiple devices like desktop, tablet, and mobile





MOMIMSAFE

2020

Personal

raspberry pi, webcam, thermal printer, thermal paper, custom software



<https://momimsafe.live>

ABOUT

Momimsafe.live is an interactive website that ran as an active live-stream of my home studio in Chicago from April to August, 2020, to stay connected with my loved ones during the Coronavirus pandemic.

ROLE

concept, web design, frontend, backend, software architecture, hardware hacking, installation

KEYWORDS

#telepresence #intimacy #pandemic #diy #installation
#raspberrypi #fullstack #reactjs #nodejs #heroku #interactive

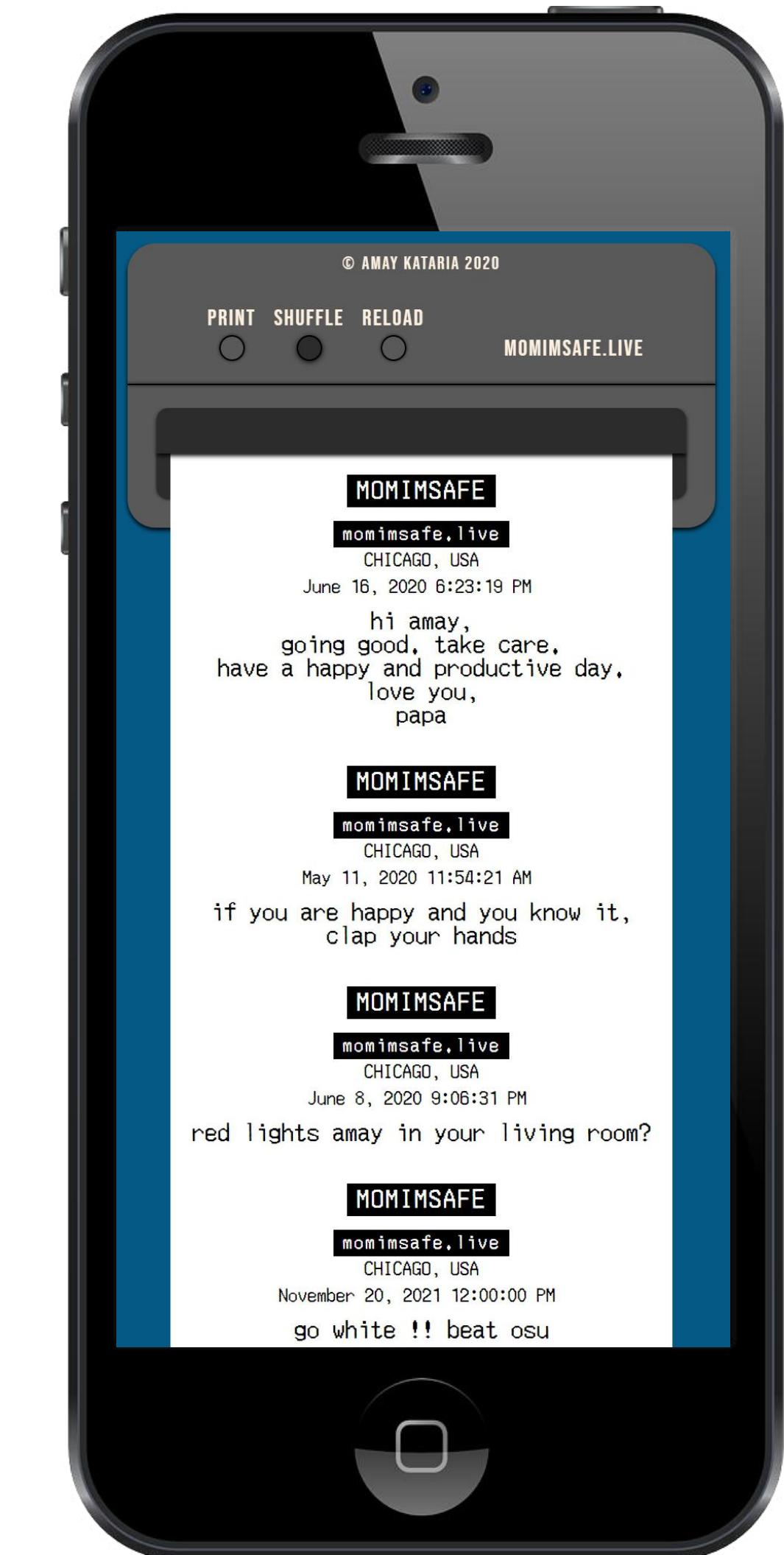
PHYSICAL PRINTER

A thermal printer was hacked and setup in my studio to anonymously collect messages in real-time sent from the website.



VIRTUAL PRINTER

Over 2000 messages have been received till now. A virtual printer lets one interact with all of these messages.



<https://momimsafe.live/#/printer>

and sage day.
lots of love
papa

16

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
May 19, 2020 10:21:56 AM

my son is my baby
today, tomorrow and
always.

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
May 19, 2020 3:34:57 PM

upar dekh

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
May 19, 2020 3:52:02 PM

hero! kidhar hai?

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
May 19, 2020 9:40:45 PM

good evening love
papa

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
May 19, 2020 9:55:12 PM

he believed he could,
so he did. every day
you are getting closer
to your goal.mom loves
you.

MOM

<https://momimsafe.live>
CHICAGO, USA
April 25,

good mornin
son. sure
good

April 27,
love the fairy l

ove

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
May 10, 2020 7:34:42 AM

i adore his smile, i
cherish his hugs, i
admire his heart, but
above all, i love that
he is my son. with tons
of love :heart: :heart:
mom

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
May 10, 2020 10:47:05 AM

happy morning amay
let us start a new day.
love
papa

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
May 10, 2020 10:47:58 AM

thanks for ur
acknowledgement.
love

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
May 10, 2020 10:47:58 AM

thanks for your
acknowledgement. love

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
May 10, 2020 2:36:26 PM

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
May 14, 2020 10:09:24 AM

ed morning bro.

happy morning amay,
good luck for the day.
stay safe, stay
healthy.
love you,
papa

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
June 2, 2020 11:30:34 AM

do the harlem shake

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
June 2, 2020 1:34:04 PM

it's happening bro!

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
June 2, 2020 8:41:30 PM

you are amazing,
you are important,
you are special,
you are unique,
you are kind,
you are precious,
you are loved.
good evening.

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
June 3, 2020 10:32:33 AM

a little progress each
day adds up to big

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
April 23, 2020 10:54:17 PM

setup is quite
ting!! love, a

MOMIMSA

<https://momimsafe.live>
CHICAGO, USA
April 24, 2020 1

lots of

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
April 24, 2020 7:15:37 AM

you amay

AFE

<https://momimsafe.live>
USA
7:50:31 PM

wanking

MOMIMSA

<https://momimsafe.live>
CHICAGO, USA
May 7, 2020 9:51:01 PM

hi guj

IMSAFE

<https://momimsafe.live>
CHICAGO, USA
May 10, 2020 3:25:52 PM

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MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
May 15, 2020 5:58:08 PM

hehe
very sweet
<3
rh

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
May 15, 2020 6:33:18 PM

is there any way you
know who's watching?

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
May 15, 2020 6:34:39 PM

gotya thanks! i feel
like a creep

MOMIMSAFE

<https://momimsafe.live>
CHICAGO, USA
May 15, 2020 6:35:55 PM

lol i read it

MOMIMSAFE

CHICAGO, USA

we are
t my mo
so i



LABOUR OF LOVE [2020]

INSTALLATION

Collected messages were stored in a virtual database and used as raw material to materialize into art exhibitions.



ANTIDOTE (2020)





GET IN TOUCH

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T H E
E N D