

beth anne

Process Book

BETH ANNE KAUFMAN

User Interface | UI/UX Design | *Spring 2025*

RESEARCH

Beth Anne Kaufman | User Interface | UI/UX Design | *Spring 2025*

PROJECT BRIEF

Overview

Every problem presents opportunities for various but unique design solutions. Screen-based user interfaces are everywhere from our mobile devices and computers to treadmills and so many other devices. The list of applications continues to grow. Students will use their familiarity of using these interfaces in the design of a new one.

Fridge Interface

Thermostat

Movie player interface

Augmented Reality Interface

Virtual Reality Interface

Mobile App for hardware

Game for console or PC

3D printer Interface

Wearable App

ATM

Gas Station Pump

Vending Machine

Automobile Dashboard

IoT device

Objectives

Research and conceptualize HCD and usability. Students will provide research and exploration into how they are putting the user at the center of their design approach and stressing usability as a primary objective.

- Consider audience-appropriate usability solutions.
- How are you putting the user at the center, diagram/map this interactive structure.
- Consider the Laws of Simplicity. (Maeda)

Research and conceptualize the psychology of your design. Within the framework of the project, students are to define how they are considering and using the 7 fundamental Principles of Interaction for the user.

- Consider screen-based and non-screen/physical affordances and signifiers.
- Consider the constraints you will utilize in your design to enhance the user experience.
- Consider feedback and how it will be an integral part of your design decisions. Indicate how this feedback will be refined to avoid white noise syndrome.
- Consider the conceptual model and how it will be similar and/or different from the system model.

INTERFACE IDEATION

Washer & Dryer

- Interface that can detect materials and heavy or light load to determine how much water, temp, detergent will work with each load. (Accessible with phone)

Vending Machine

- Interface that works like a self checkout screen, choose the items, then pay, then get items, can also have a camera to scan bills if they are having trouble going through the feeder

Smart Coat

- Interface that can answer phone calls, track health monitor, and warm the user or charge devices

Alarm Clock

- Motion censored for when you get up to show details of your day or tasks

Augmented Reality

- Interface that will show chores, tasks, and reminders when showing the object (fridge = grocery list appears)

Hanging Seat Screen

- Allows audience members to view close up shots in a theater environment

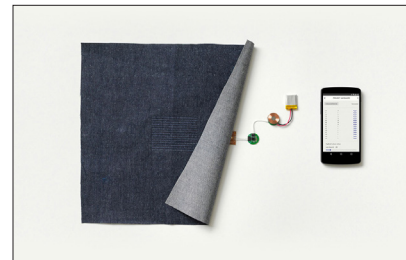
* blue box indicates decided app

COMPETITIVE RESEARCH - LEVI'S & GOOGLE

Levi's x Jacquard by Google

The Levi's® Commuter Trucker Jacket with Jacquard™ by Google has touch and gesture interactivity woven into the sleeve. When paired with your phone, a simple brush or tap on the sleeve lets you stay connected to your music, navigation and friends without stopping to reach for your pocket. Key features include:

- Navigation: Get upcoming turn reminders or the ETA to your destination all while keeping your eyes on the road ahead.
- Communication: Hear who incoming texts are from, have texts read to you, and send calls to voicemail to listen to later.
- Music: Play, pause, or skip songs without slowing down to grab your phone.
- Designed with 4-way stretch and articulated shoulders for increased mobility.
- Lower back hem for added coverage, 3M™ reflectivity for visibility, secure zip pockets, and washable.
- Jacquard Threads woven into the sleeve create an interactive surface that responds to gestures. The jacket is synced to the person's device through the Jacquard snap tag.



COMPETITIVE RESEARCH - AIQ SMART CLOTHING

BioMan+

The Bioman+ is a base upper body garment solution for a wide range of smart clothing solutions. It consists of conductive fiber based textile electrodes for the acquisition of the electric activity of human body as well as conductive thread to carry the electric signals to the processing & transmission module that is snapped onto the garment.

Bioman+ has been validated with most of the industry leading heart rate & ECG module vendors and continues to be the first choice Smart Clothing partner for new module vendors entering this rapidly growing segment.



COMPETITIVE RESEARCH - VOLLEYBAK

Full Metal Jacket

Hailed by WIRED as “the virus-killing coat of the future,” and winner of TIME Best Inventions, every Full Metal Jacket is built from 11 kilometres of copper.

Copper is one of the most advanced materials in the solar system. Its ability to conduct heat and power while killing bacteria and viruses make it a potential first building block for the future of clothing.

The copper strands in every jacket are measured by lasers to keep them soft and malleable. The jacket is engineered with an advanced waterproof and breathable membrane that can open and close to respond to different weather conditions. It comes with giant pockets, a fleece-lined neck, and it’s also cured for 6 days.



FABRIC RESEARCH

The Levi's Commuter x Jacquard Jacket is the first jacquard fabric made with **conductive yarn**. This means that while you're wearing it, it can automatically detect whether or not your smartphone is in your pocket or bag, and if it's there, it will connect with your phone. You can control your music, answer calls, and interact with Google Assistant while never taking your phone out of your pocket.

- 3M Scotchlite reflective material on the sleeves and back for increased visibility at night.
- Waterproof membrane that will keep you dry in any weather condition.
- The classic Levi's 5-pocket style means carrying everything from keys to credit cards to snacks while still looking good.
- Jacquard Threads woven into the sleeve create an interactive surface that responds to gestures. The jacket is synced to the person's device through the Jacquard snap tag.

Bioman+ consists of **conductive fiber based textile electrodes** for the acquisition of the electric activity of human body as well as **conductive thread** to carry the electric signals to the processing & transmission module that is snapped onto the garment.

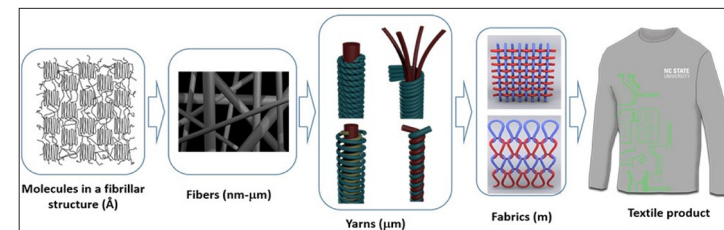
- **Textile electrodes** are essentially fabrics with conductive elements, such as **conductive yarns** or **printed conductive inks**, woven or integrated into them.
- These electrodes can be used to measure bioelectrical signals like ECG, EEG, and EMG, or to deliver electrical stimulation for therapeutic purposes.
- **Conductive yarns**, like **silver-plated polyamide (Ag/PA)** or other conductive materials, are knitted or embroidered into the fabric.
- **Conductive inks** can be printed onto the fabric to create conductive patterns.
- **Textile electrodes** can also be made by coating the fabric with a mixture of **silver nanowire and polyvinyl alcohol (PVA)** and crosslinking the conductive layer with **glutaraldehyde (GA)**.



Conductive Yarn



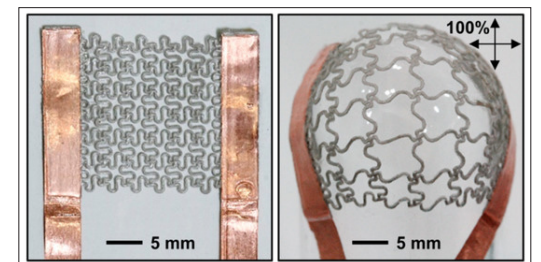
Printed conductive ink supplying heat to jacket



conductive fiber based textile electrodes



Silver-plated polyamide conductive fabric by 3L Tex

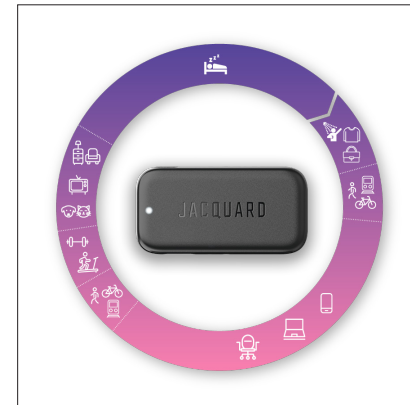


Silver-Nanowire-Based Elastic Conductors

CHIP RESEARCH

The Jacquard Tag is the brain and power behind the Jacquard ecosystem. This tiny device connects to your phone using **Bluetooth** and includes a **rechargeable battery, a motion sensor, I/O contact pads, and an on-board microprocessor** to read and process inputs. A dead-front indicator LED is visible when needed and invisible when not.

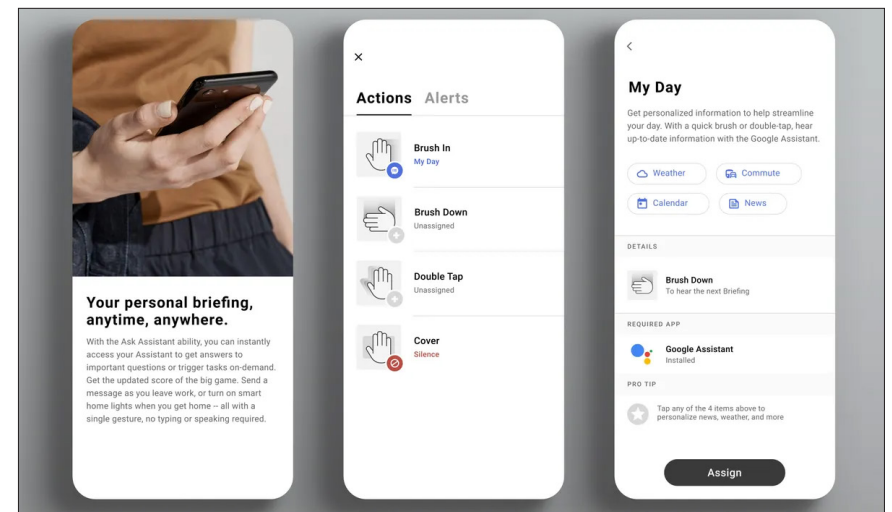
- I/O contact pads: also known as bond pads, are small, conductive surface areas on integrated circuits (ICs) or printed circuit boards (PCBs) that facilitate electrical connections.
- They allow for the transmission of both input signals (data or control signals) into the IC and output signals (data or control signals) from the IC to the outside world.



Jacquard Tag



Jacquard Tag



Google's Jacquard App

WEARABLE VEST BRAND NAME IDEAS

- FusionFit
- Tech Thread
- Synthetica
- Voltique (volt and boutique)
- Techture (tech and texture)
- Techne (techn = tech in greek)
- Dyna (greek root for power)
- Syncfit
- Dresscode
- Volt
- Future Form
- Emersion
- TechSeams

* blue box indicates decided app name

CREATIVE BRIEF

Client

Techne is an American named brand that seeks to make everyday as accessible as possible with health and entertainment through smart clothing.

Objectives and Priorities

With daily living become more and more online, many people of different backgrounds struggle to follow suit, whether it's age, finances, or health issues. Techne seeks to make every single day as accessible as possible for every single person.

Target Audience

The intended audience for this app will focus on the 5-80+ year old demographic. Health, location, and fashion play a part everyday for this age range.

Situational Analysis

Despite the world becoming almost all technology and online, many people cannot afford or do not live mostly online.

Call to Action

An everyday wearable utilized through a simple app that allows the user to very briefly check the status of their wearable, and customize commands easily before going about their day.

Competitors

Levi's & Google

AIQ Smart Clothing

Volleybak

Deliverables

Designed app interface
Garment and app prototype
Presentation sample for screens and garment functions

Mandatories

Company logo
Brand specific formatting

Metrics of Success

The gauge of success will be determined by the decline of users in competitive apps and wearables, users that convert over to Techne will show success in compiling features from competitive apps in just one.

App Store Description

Techne is a simple friend for accessing and viewing the status of your own Techne wearable. Key features include:

- Quick glance screen to see all information of your current wearable.
- Info on chip charge and battery life.
- Customize commands to make your Techne wearable uniquely yours.
- Register wearables with ease with the code input.

PERSONA / USER RESEARCH



User 1 - Amara

Age

- 22

Occupation

- Undergrad student
- Part-time job

Goals / Intentions

- Easily answer calls for internships.
- listen to music when on the go, and when doing class work.
- Stay warm while traveling to and from class.

Pain points

- Trying to be hands free at school while juggling internships and part-time job.
- Carries too much in her backpack, causing her bag to break and back to hurt.



User 2 - Arthur

Age

- 84

Occupation

- Retired

Goals / Intentions

- Track health, ekg, and heart rate levels.
- Answer family calls with ease to stay connected.

Pain points

- Suffering health complications.
- Trouble getting out of the house to see family and loved ones.

PERSONA / USER RESEARCH



User 3 - Jennifer

Age

- 45

Occupation

- Mother
- CEO

Goals / Intentions

- Stay hands free and mobile while taking phone calls and voicemails.
- Keep track of daughter's location and health.

Pain points

- Consistently busy with a full-time job.
- Away from family more than intended.



User 4 - Naomi

Age

- 7

Occupation

- Student

Goals / Intentions

- A fun stylish wearable to customize the color for fun.
- Stay warm during the cold months waiting at the bus stop.

Pain points

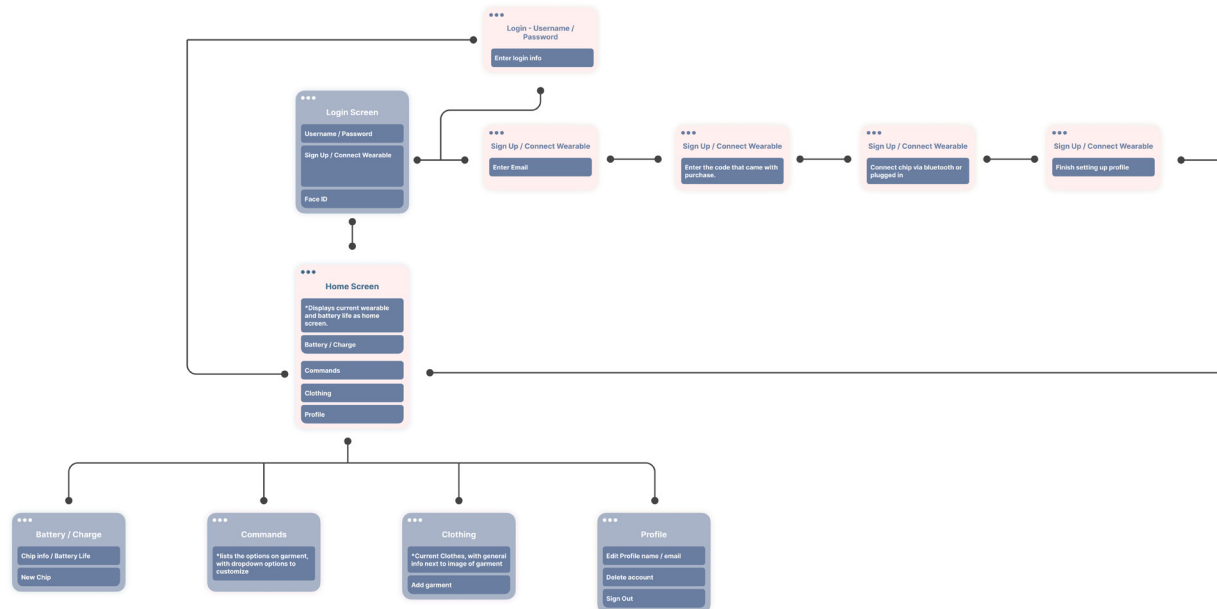
- Deals with temperature fluctuations throughout the school year, also affecting health and allergies.

FIGMA SITEMAP

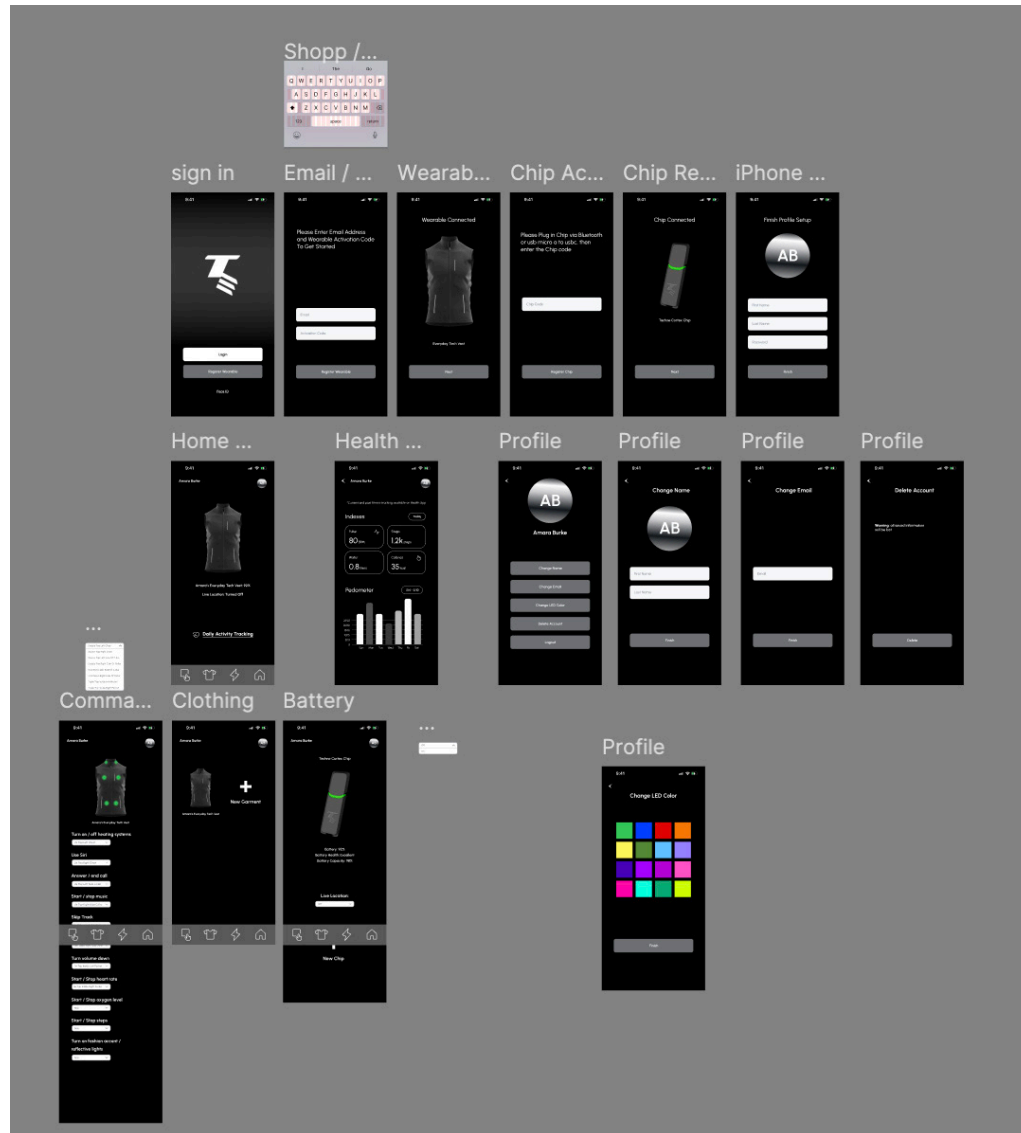
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Wearable Vest App Sitemap



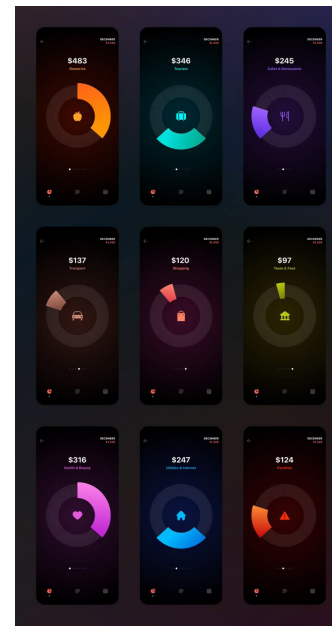
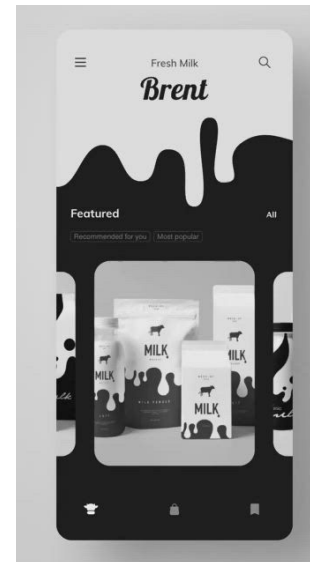
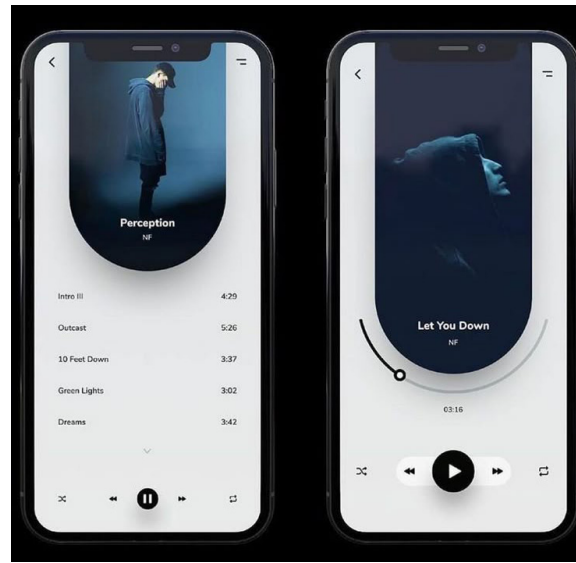
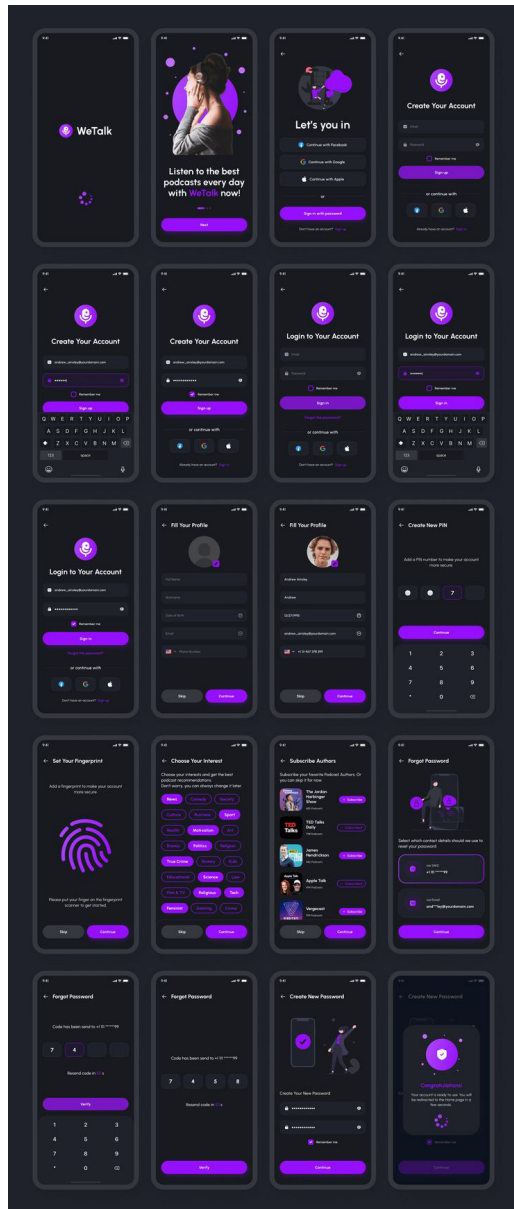
FIGMA WIREFRAME - APP



Dev Link: <https://www.figma.com/design/khNhKJsebhASIOgaPzQlpC/Techne-Ap-p?node-id=0-1&m=dev&t=20WY65e0HzX9xiSz-1>

Prototype Link: <https://www.figma.com/prototype/khNhKJsebhASIOgaPzQlpC/Techne-Ap-p?node-id=0-1&t=yaV3dSzfMh3YXuTf-1>

MOODBOARD - LAYOUTS



App layout inspiration, looking at dark colors, simple shapes and minimal design.

MOODBOARD - COLORS

Metallic Silver

HEX: ASBAC RGB: 165, 171, 172 CMYK: 4%, 1%, 0%, 33%

Dim Gray

HEX: 656A69 RGB: 101, 106, 105 CMYK: 5%, 0%, 1%, 58%

Outer Space

HEX: 445253 RGB: 68, 82, 83 CMYK: 18%, 1%, 0%, 68%

Arsenic

HEX: 3C4341 RGB: 60, 67, 65 CMYK: 11%, 0%, 3%, 74%

Dark Charcoal

HEX: 2F3237 RGB: 47, 50, 55 CMYK: 15%, 9%, 0%, 78%

Turquoise Color Palettes

#222831 #283b48 #00a6c0 #d1b77e

#222831 #283b48 #00a6c0 #d1b77e

#283b48 #00a6c0 #d1b77e #222831

Colorful Colorful Colorful Colorful

Shades of gray

Color palette Dark mode

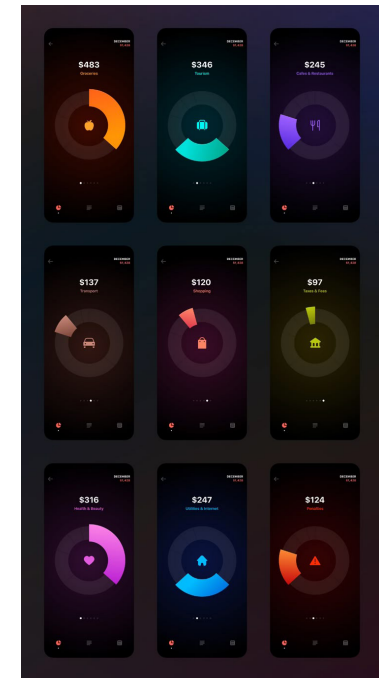
Black & White

black-100 black-90 black-80 black-70 black-60

white-100 white-90 white-80 white-70 white-60

Text colors

header description reverse



COLOR PALETTE

CHARLESTON GREEN #2A2829 R:42 G:40 B:41 C:0 M:5 Y:3 K:84

DARK SKY BLUE #97B4DE R:181 G:180 B:232 C:32 M:19 Y:0 K:13

BLUE #283A99 R:38 G:58 B:153 C:75 M:62 Y:0 K:40

ALABASTER #F0EBE5 R:240 G:235 B:229 C:0 M:2 Y:5 K:6

PASTEL GRAY #DCD0BE R:220 G:208 B:190 C:0 M:6 Y:14 K:14

Aa Ff Xx

Regular Medium Semi Bold

Primary Colors

Rich Brick Dark Green Bangladesh Green Mountain Meadow Caribbean Green Anti-Flash White

Secondary Colors

Fine Basil Forest Frog Mint

Stone Pistachio

Dark gray scale color palettes with pops of bright colors.

MOODBOARD - COLOR CONTRAST CHECKER

Contrast Checker
[Home](#) > [Resources](#) > Contrast Checker

Foreground
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Color Picker: [Color Picker]
Alpha: 1
Lightness: [Lightness Slider]

Background
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[permalink](#)

Contrast Checker
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MOODBOARD - COLOR CONTRAST CHECKER

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MOODBOARD - COLOR CONTRAST CHECKER

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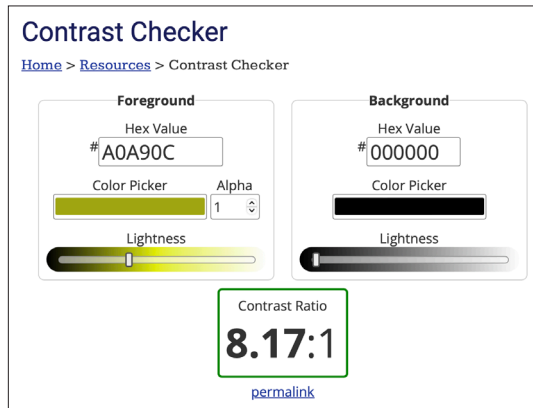
MOODBOARD - COLOR CONTRAST CHECKER

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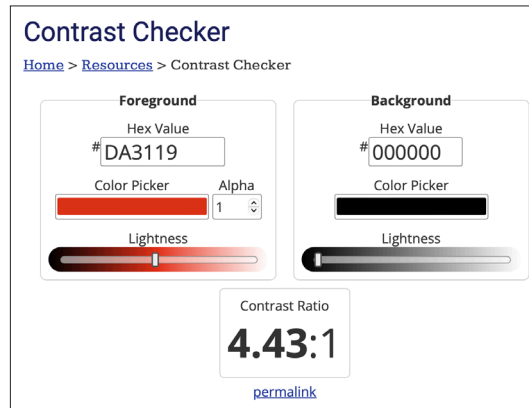


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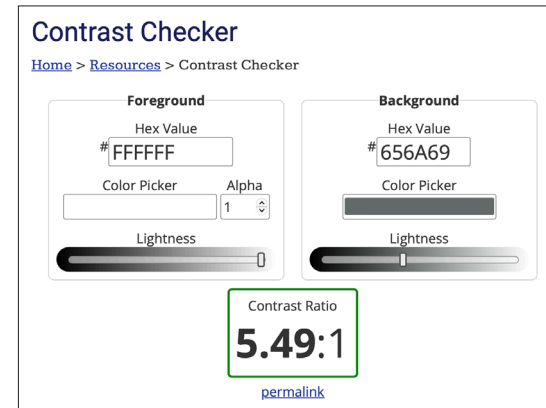


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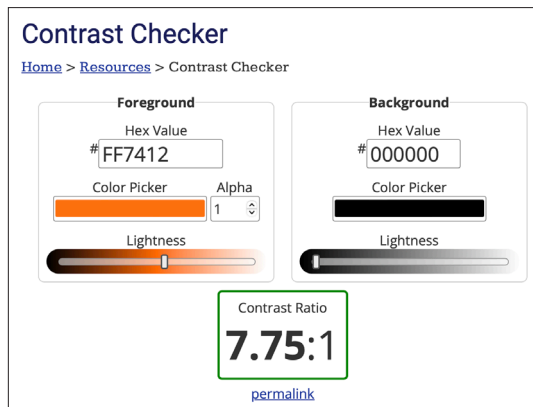


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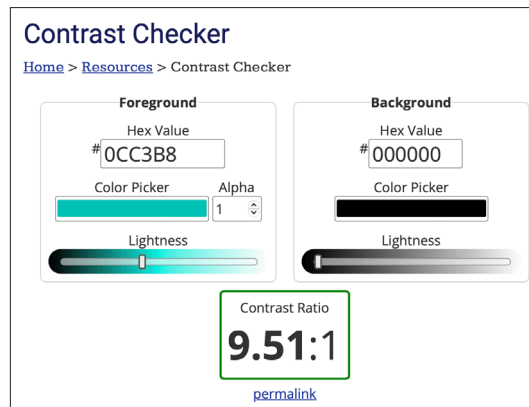


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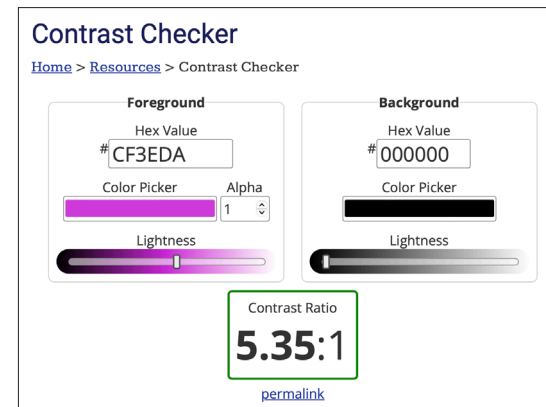


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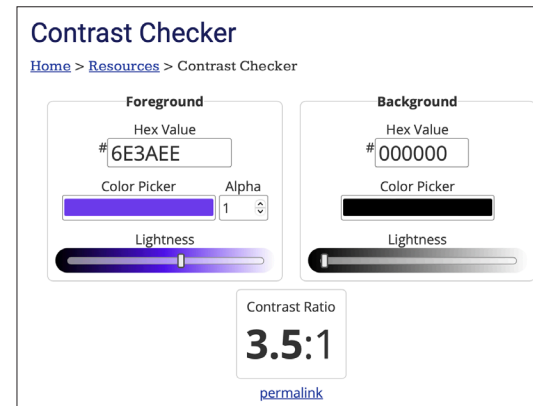
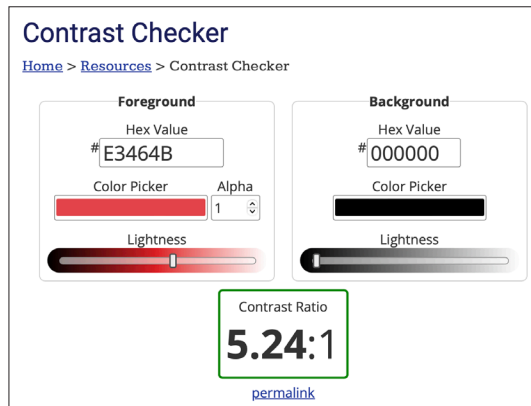
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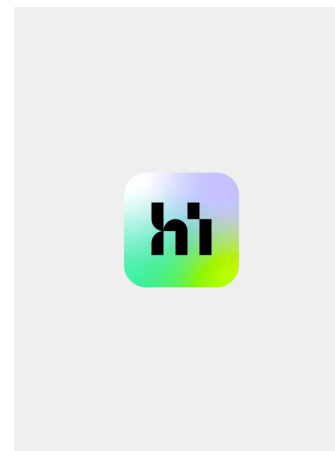
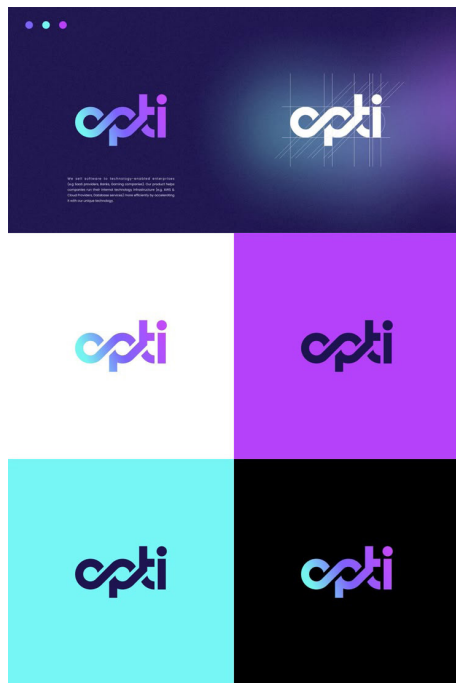
Contrast Ratio: **5.35:1**
[permalink](#)



MOODBOARD - COLOR CONTRAST CHECKER



MOODBOARD - LOGO & TYPEFACE INSPIRATION

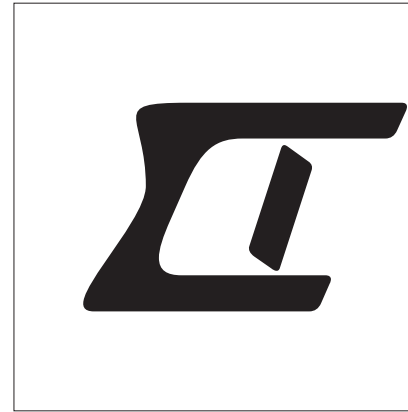
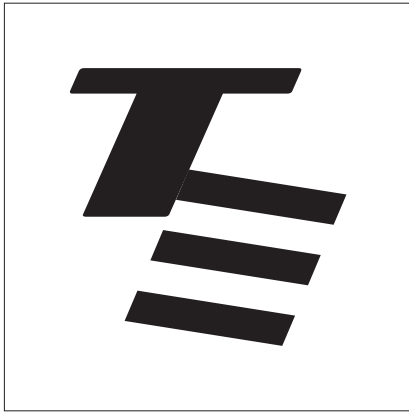


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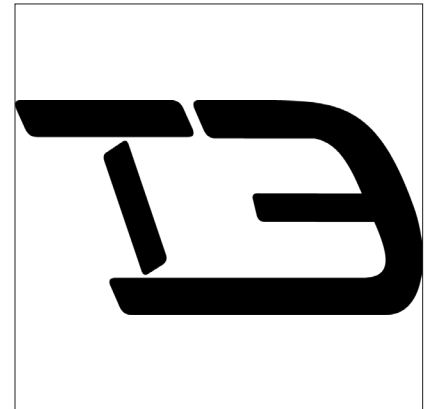
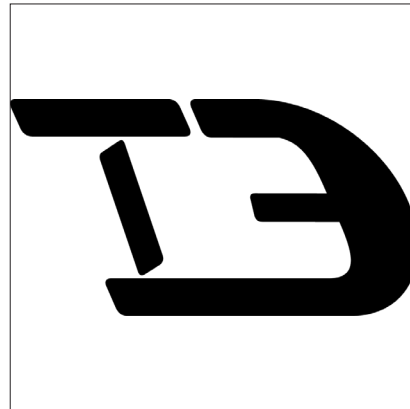
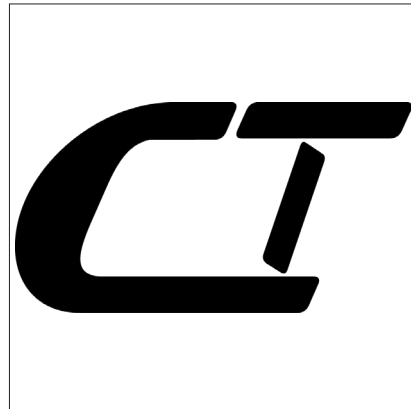
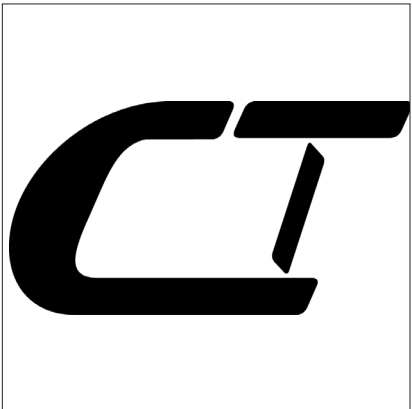
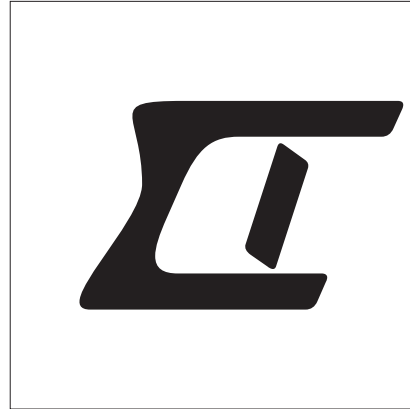
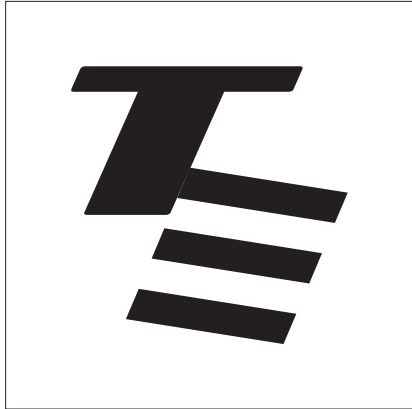
TECHNE
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Simple, sharp typefaces that feel almost futuristic.

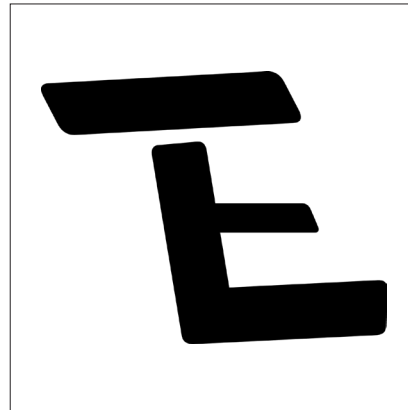
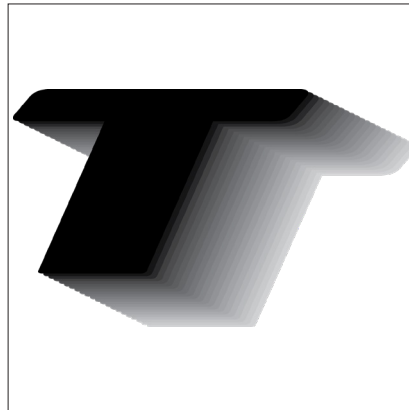
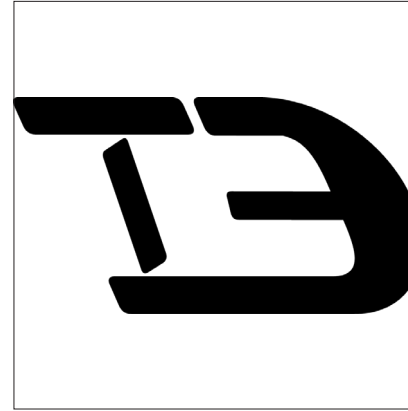
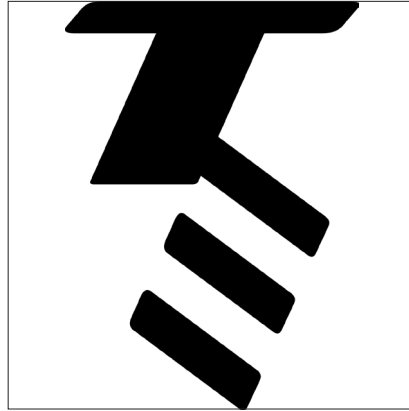
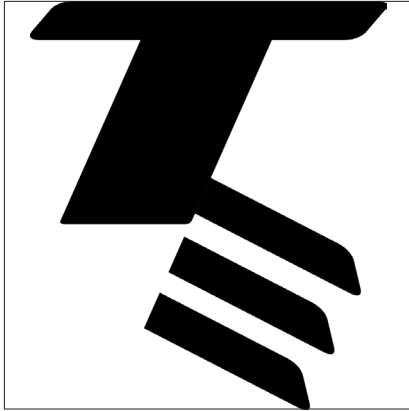
LOGO DRAFTS



LOGO REVISIONS



LOGO REVISIONS



APP COLOR EXPLORATIONS

Palette 1



Palette 2



Palette 3



Palette 4



TYPOGRAPHY EXPLORATIONS

HOTEL REGULAR

AABBCCDDEEFFGGHHIIJJKKLLMMNNOO
PPQQRRSSTTUUVVWWXXYYZZ
1234567890&

RIFT BOLD ITALIC

AABBCCDDEEFFGGHHIIJJKKLLMMNNOO
PPQQRRSSTTUUVVWWXXYYZZ
1234567890&

ELEMENTAL END ITALIC

AABBCCDDEEFFGGHHIIJJ<KLL
MMNNOO>PPQQRRSSTTUUVVW
WXXYYZZ
1234567890&

MEGAVOLT REGULAR

AABBCCDDEEFFGG
HHIIJJ<KLLMMNNOO
PPQQRRSSTTUUVV
WXXYYZZ
1234567890&

SOFA CHROME ITALIC

AABBCCDDEEFFGG
HHIIJJKKLLMMNNOO
PPQQRRSSTTUUVV
WXXYYZZ
1234567890&

* blue box indicates typefaces used in final

TYPOGRAPHY EXPLORATIONS

Oswald Light

AaBbCcDdEeFfGgHhIiJjKkLlMmNnOo
PpQqRrSsTtUuVvWwXxYyZz
1234567890&

Lexend Regular

AaBbCcDdEeFfGgHhIiJjKkLlMmNnOo
PpQqRrSsTtUuVvWwXxYyZz
1234567890&

Nunito Regular

AaBbCcDdEeFfGgHhIiJjKkLlMmNnOo
PpQqRrSsTtUuVvWwXxYyZz
1234567890&

Manrope Regular

AaBbCcDdEeFfGgHhIiJjKkLlMmNnOo
PpQqRrSsTtUuVvWwXxYyZz
1234567890&

Urbanist Regular

AaBbCcDdEeFfGgHhIiJjKkLlMmNnOo
PpQqRrSsTtUuVvWwXxYyZz
1234567890&

Michroma Regular

AaBbCcDdEeFfGgHhIiJjKkLl
MmNnOoPpQqRrSsTtUuVv
WwXxYyZz
1234567890&

* blue box indicates typefaces used in final

TYPOGRAPHY EXPLORATIONS

Urbanist Black

AaBbCcDdEeFfGgHhIiJjKkLlMmNnOo
PpQqRrSsTtUuVvWwXxYyZz
1234567890&

Urbanist Semibold

AaBbCcDdEeFfGgHhIiJjKkLlMmNnOo
PpQqRrSsTtUuVvWwXxYyZz
1234567890&

Urbanist Bold

AaBbCcDdEeFfGgHhIiJjKkLlMmNnOo
PpQqRrSsTtUuVvWwXxYyZz
1234567890&

Urbanist Medium

AaBbCcDdEeFfGgHhIiJjKkLlMmNnOo
PpQqRrSsTtUuVvWwXxYyZz
1234567890&

Helvetica Neue Regular

AaBbCcDdEeFfGgHhIiJjKkLlMmNnOo
PpQqRrSsTtUuVvWwXxYyZz
1234567890&

Helvetica Neue Medium

AaBbCcDdEeFfGgHhIiJjKkLl
MmNnOoPpQqRrSsTtUuVvWwXxYyZz
1234567890&

* blue box indicates typefaces used in final

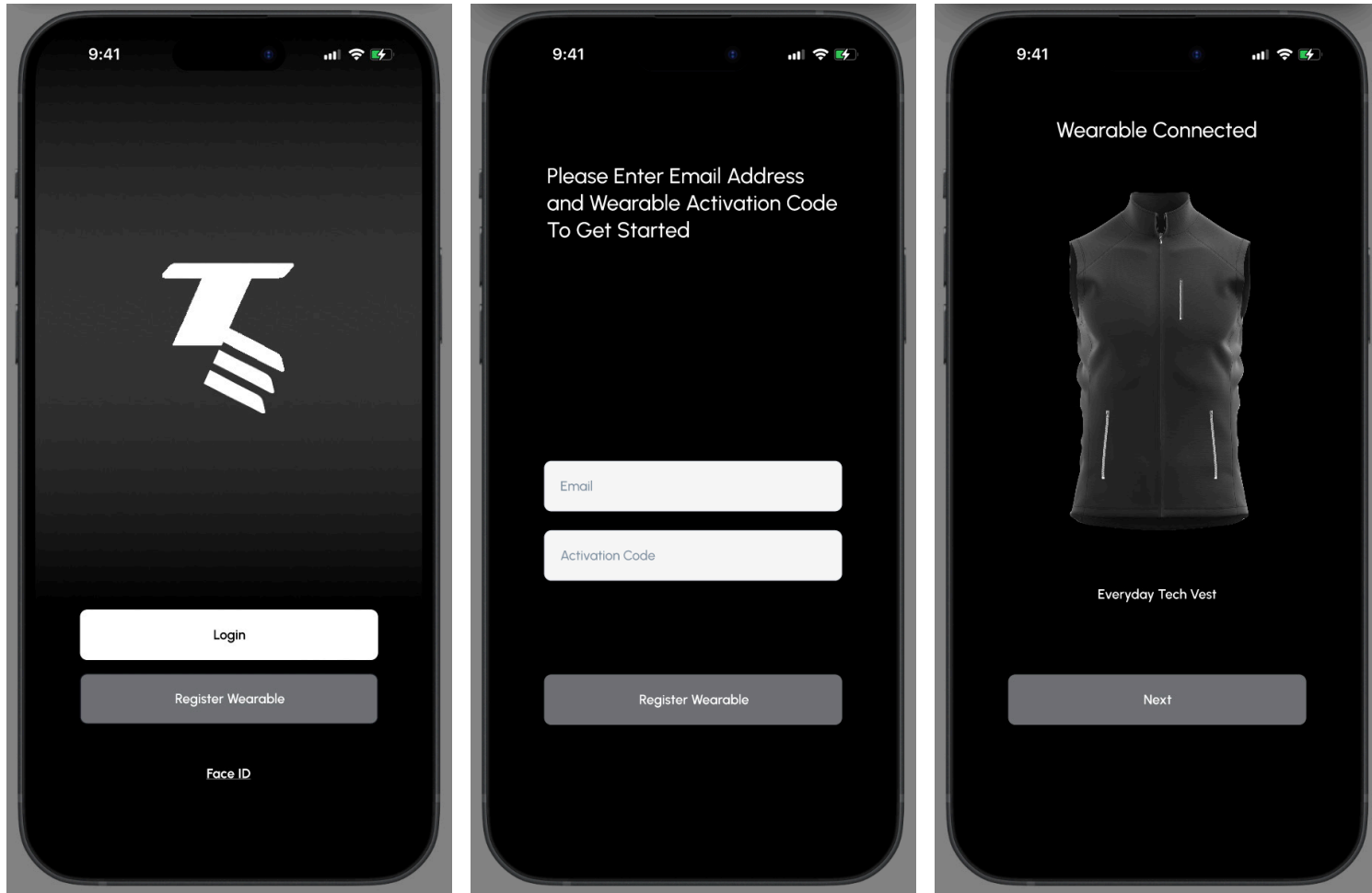
FINAL COMPOSITIONS

Beth Anne Kaufman | User Interface | UI/UX Design | *Spring 2025*

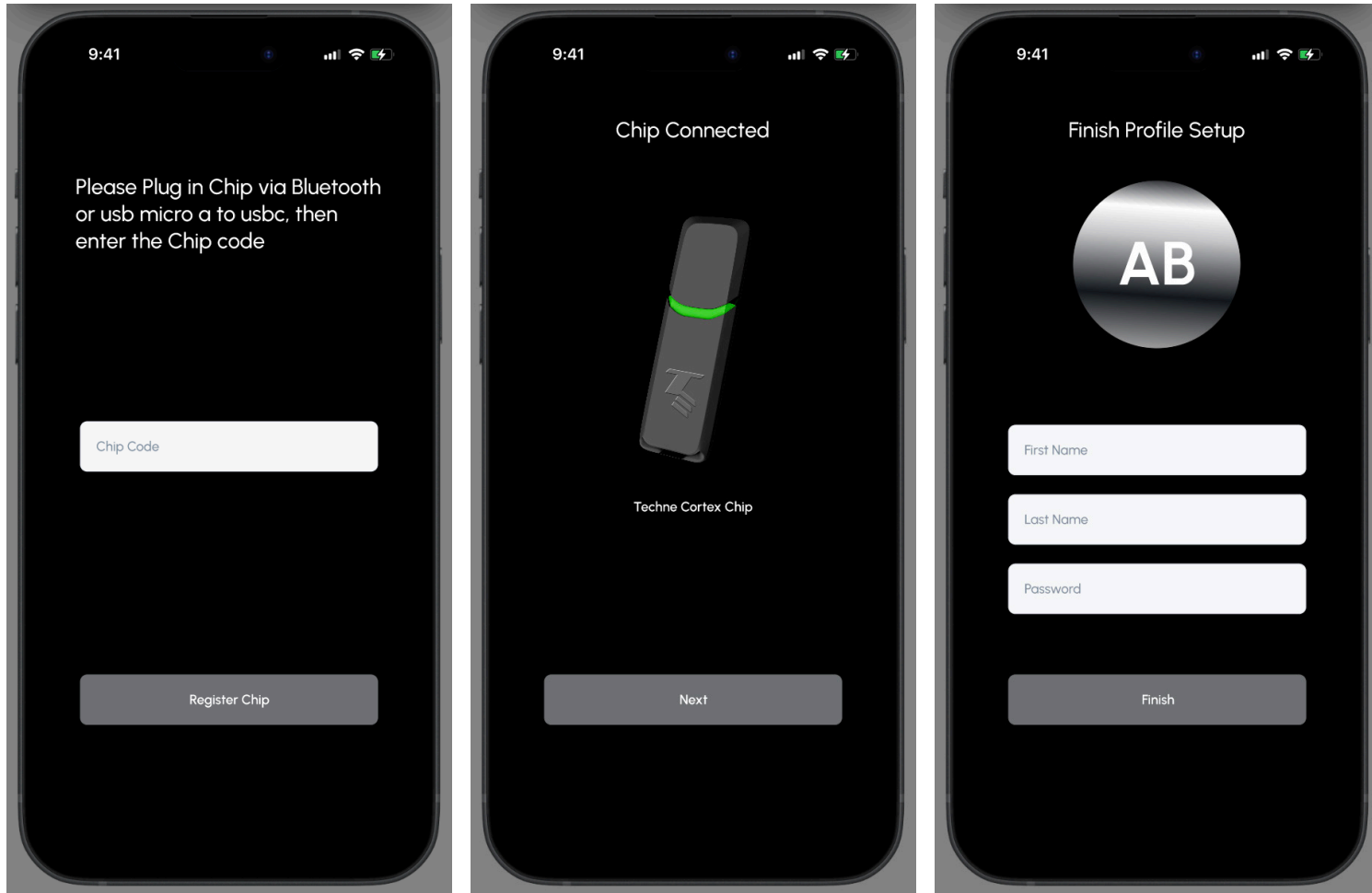
FINAL APP LOGO



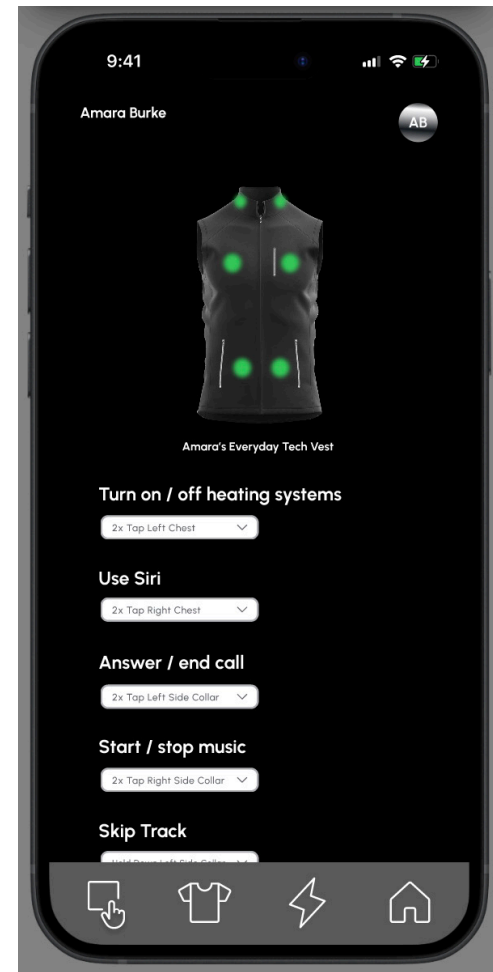
FINAL SCREENS



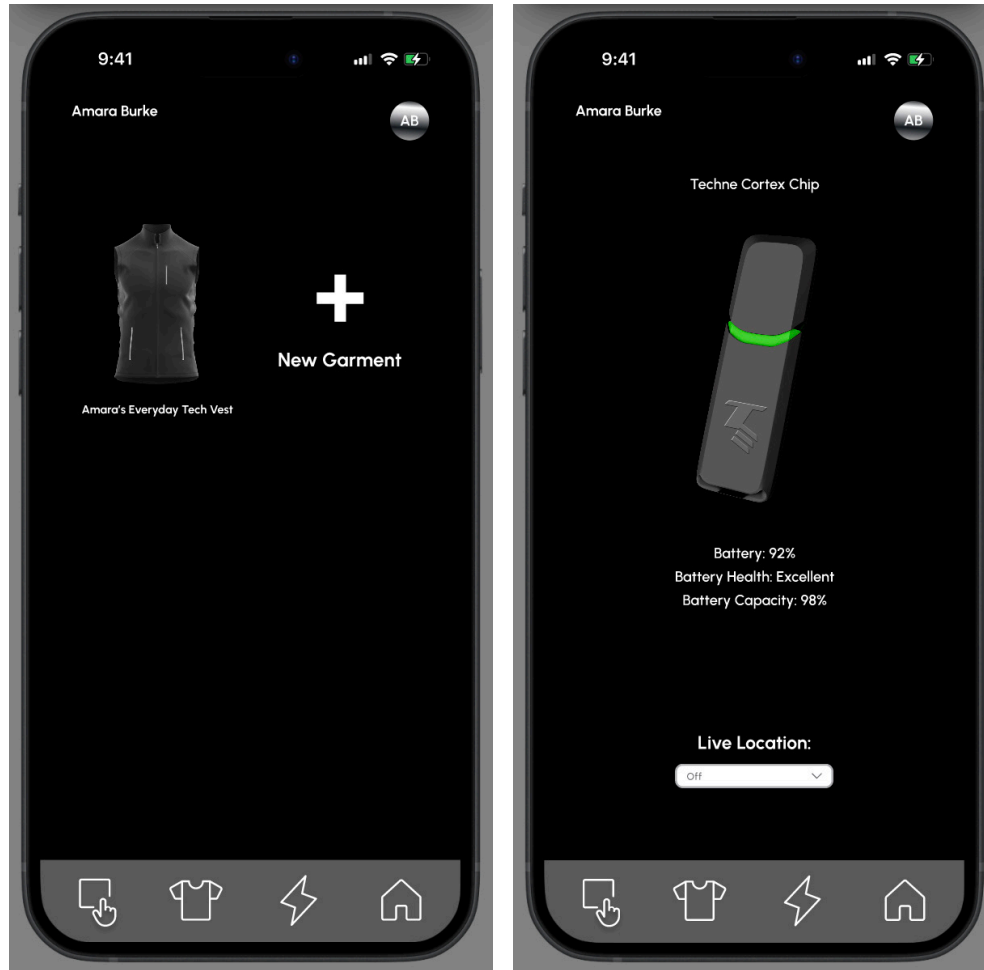
FINAL SCREENS



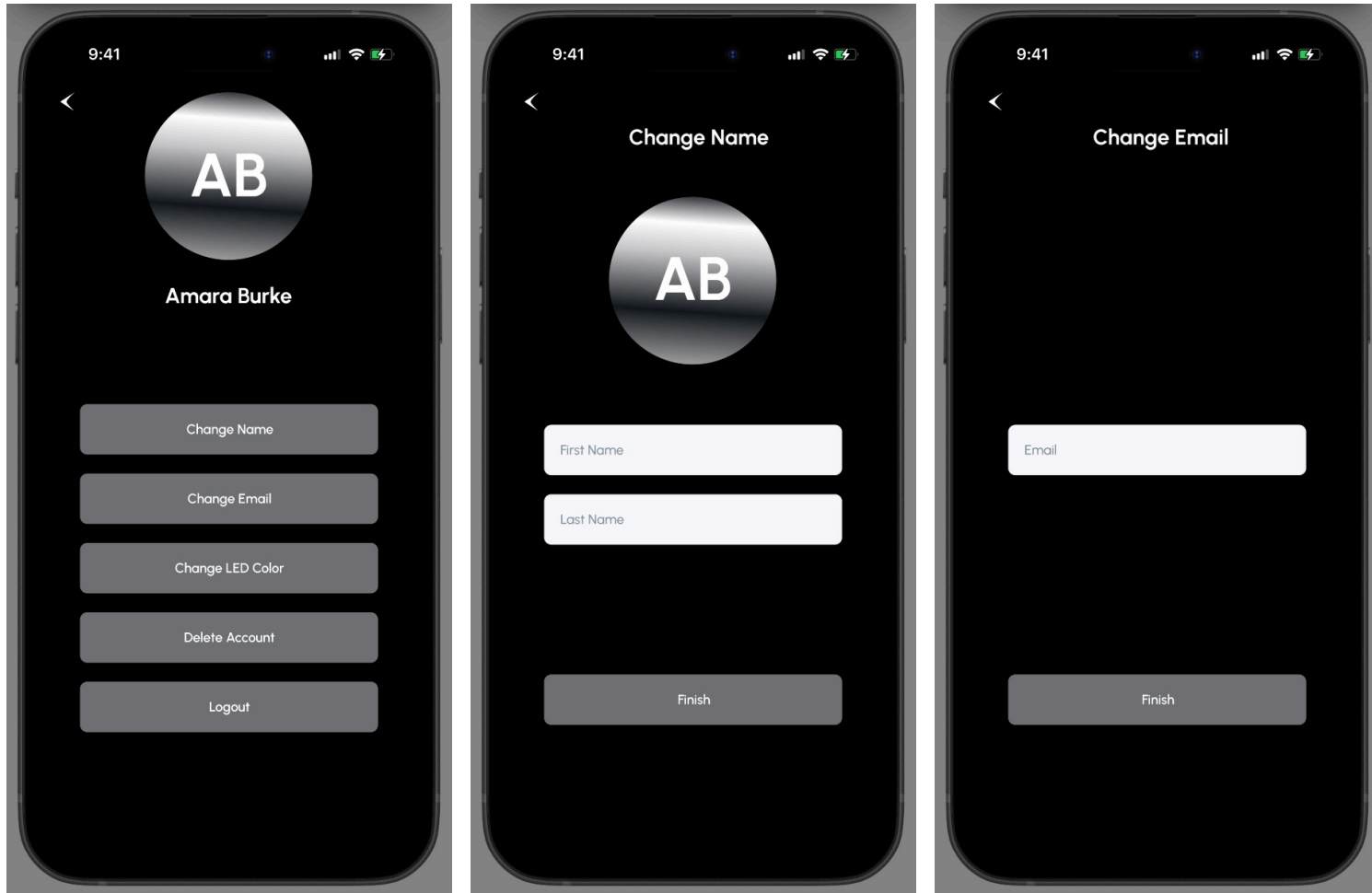
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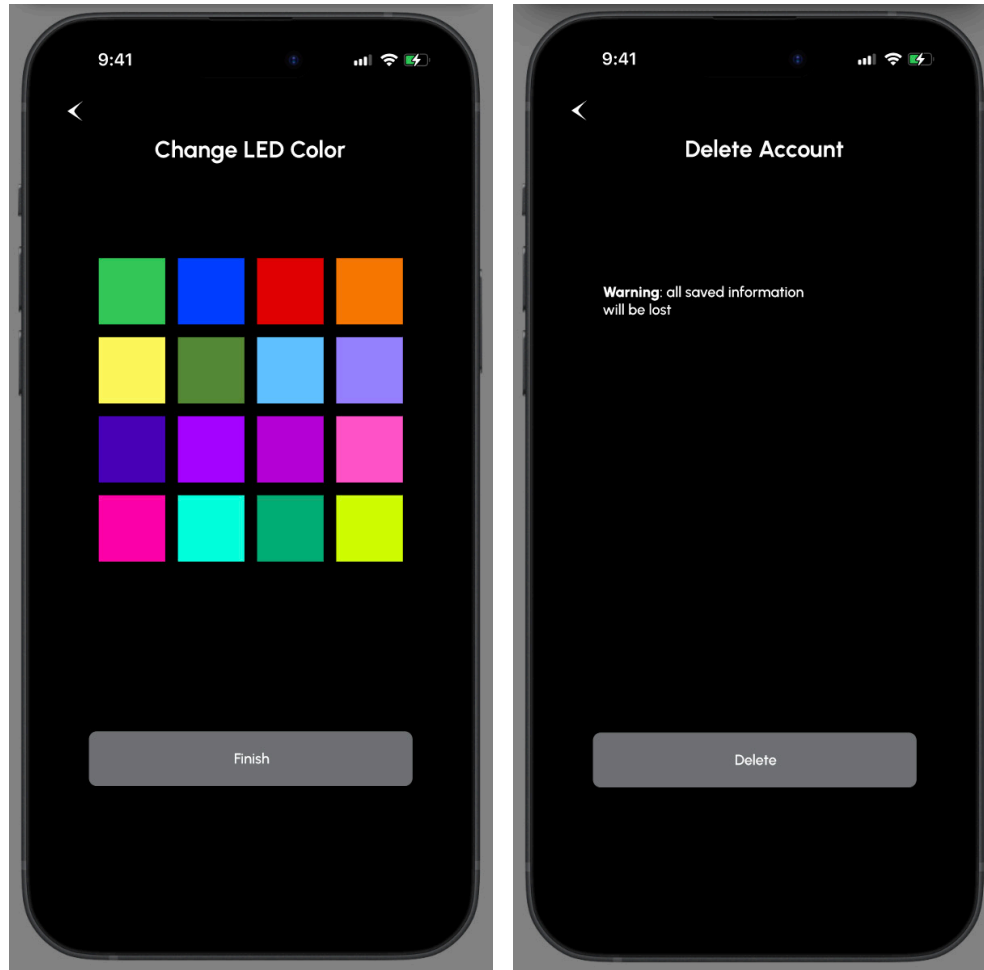
FINAL SCREENS



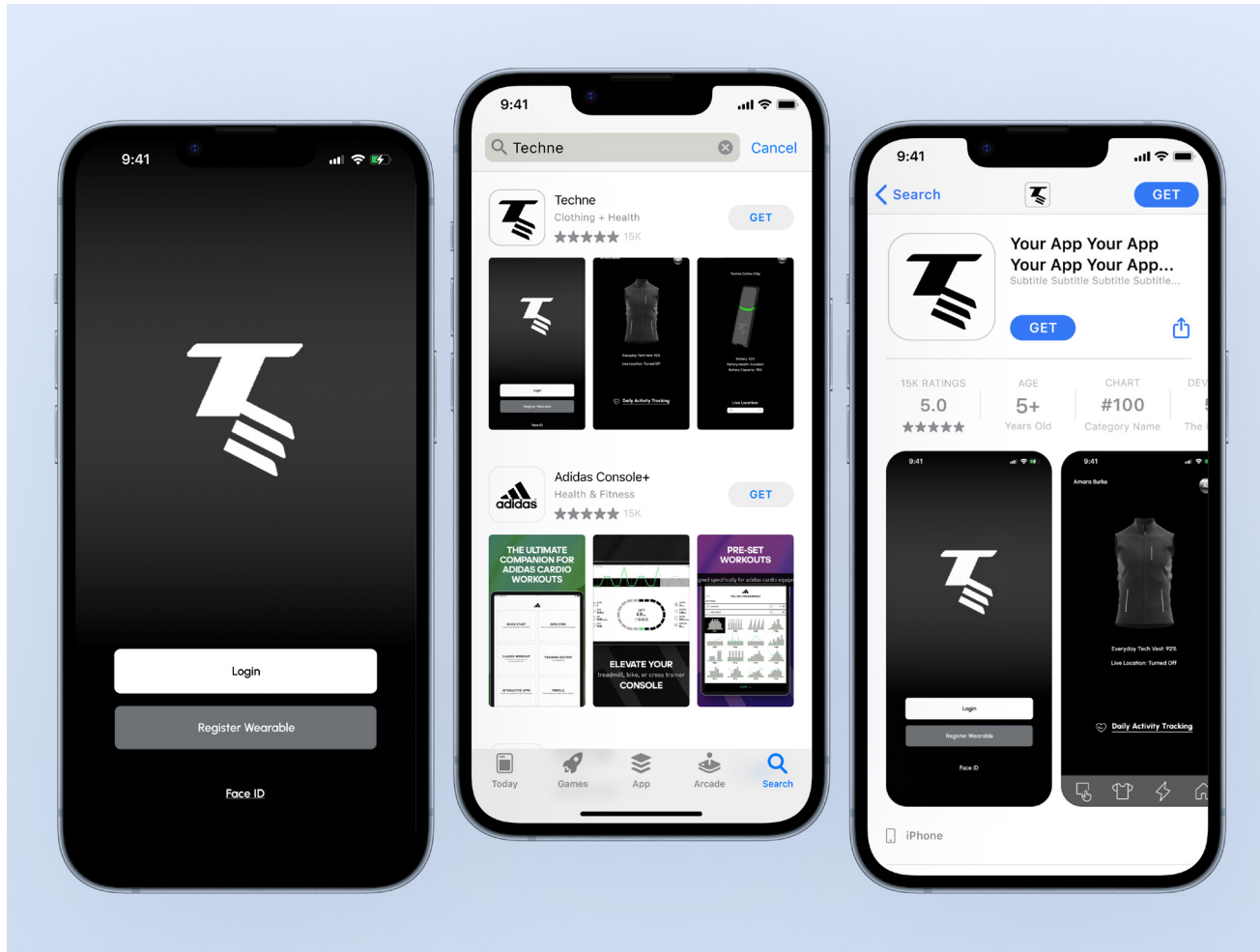
FINAL SCREENS



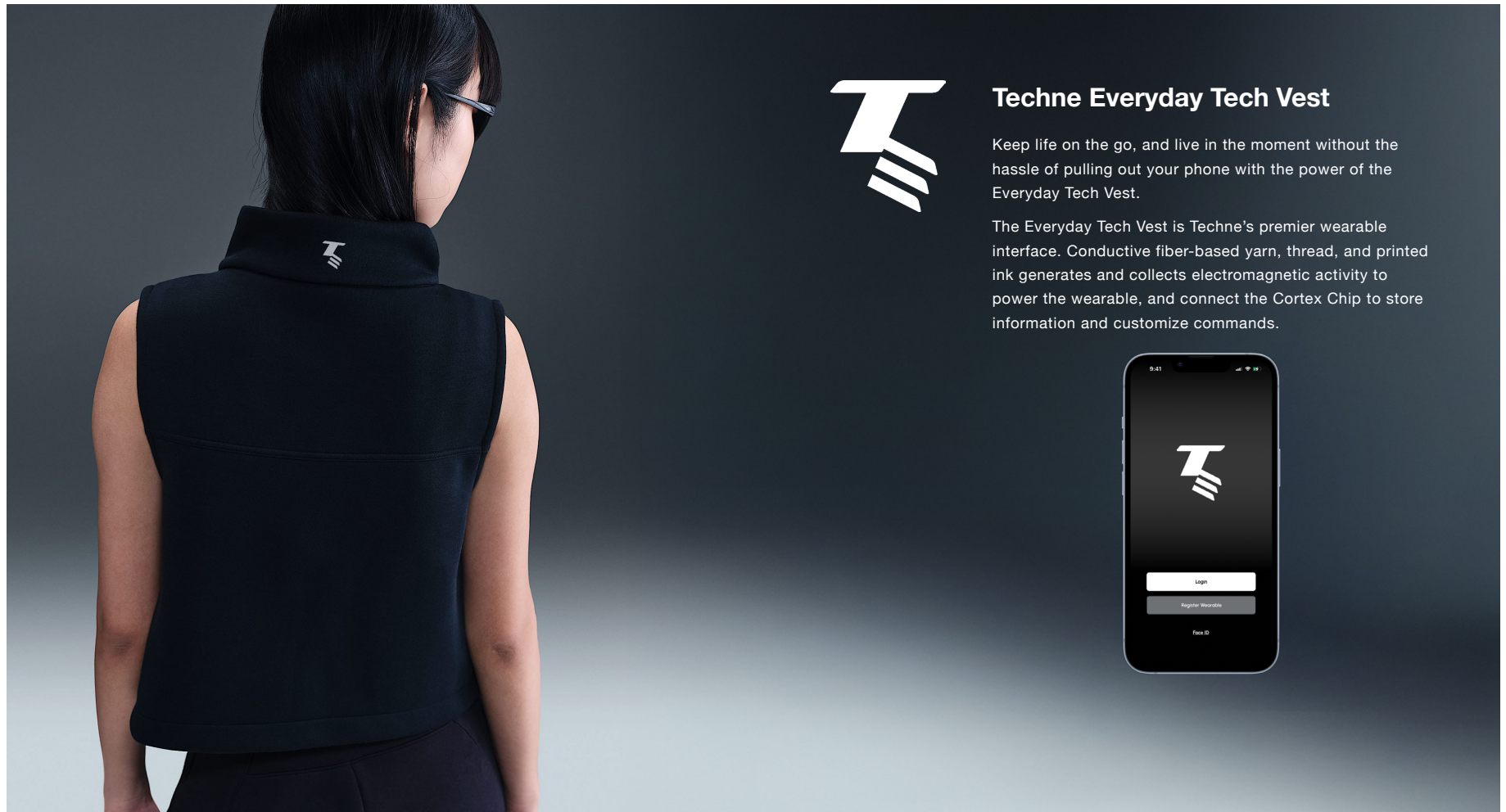
FINAL SCREENS



FINAL SCREENS



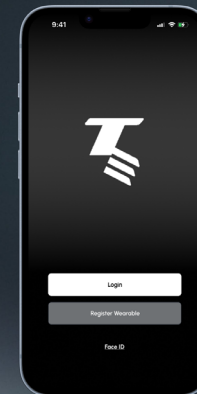
FINAL DESCRIPTION



Techne Everyday Tech Vest

Keep life on the go, and live in the moment without the hassle of pulling out your phone with the power of the Everyday Tech Vest.

The Everyday Tech Vest is Techne's premier wearable interface. Conductive fiber-based yarn, thread, and printed ink generates and collects electromagnetic activity to power the wearable, and connect the Cortex Chip to store information and customize commands.



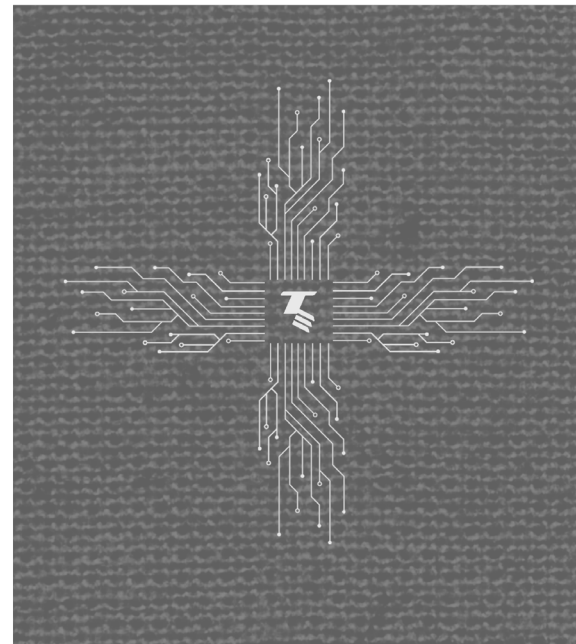
FINAL VESTS



FINAL VESTS



FINAL VESTS



FINAL MOCKUPS



FINAL MOCKUPS

TECHNE

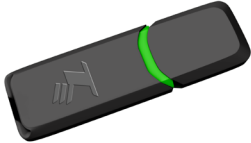
NEW RELEASES SHIRTS VESTS KIDS CHIPS

BLUETOOTH CHIPS

CORTEX CHIP

TOTAL: \$1,500 USD

Add To Cart Buy Now



PRODUCT DETAILS


Product Description:

Use all that goes into your iPhone without pulling it out of your pocket with the power of the Cortex Chip. Through bluetooth connectivity, access Siri, music, and friends and family through your garment thanks to the chip.

Simply connect the chip to your Techné app and phone, and place it in the chip pocket to connect to the printed conductive inks to use your everyday wearable.

Product Features:

- Bluetooth connection to iPhone
- USB-C compatible for charging and connecting information to iPhone.
- Lightweight for everyday wear.
- Green light to show charge level at a glance.
- Small and lightweight to store and wear comfortably all day. (10cm x 3.1cm)



USB-C support for charging and connecting data.

TECHNE

NEW RELEASES SHIRTS VESTS KIDS CHIPS

ADULT VESTS

EVERYDAY TECH VEST

\$1,000 USD
 \$2,500 USD (WITH CORTEX CHIP)
 \$1,800 USD (WITH FASHION LIGHTS)
 \$3,500 USD (WITH FASHION LIGHTS & CORTEX CHIP)


SELECT SIZE (US)

XS S M L XL 2XL

COLOR: BLACK

TOTAL: \$2,500 USD

Add To Cart Buy Now



PRODUCT DETAILS

Product Description:

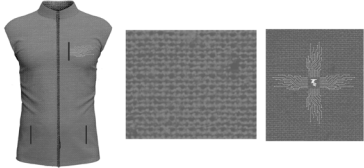
Keep life on the go, and live in the moment without the hassle of pulling out your phone with the power of the Everyday Tech Vest.

The Everyday Tech Vest is Techné's premier wearable interface. The conductive fiber-based yarn and thread generates and collects electromagnetic activity from the wearer that the Cortex Chip will read and gather as information.

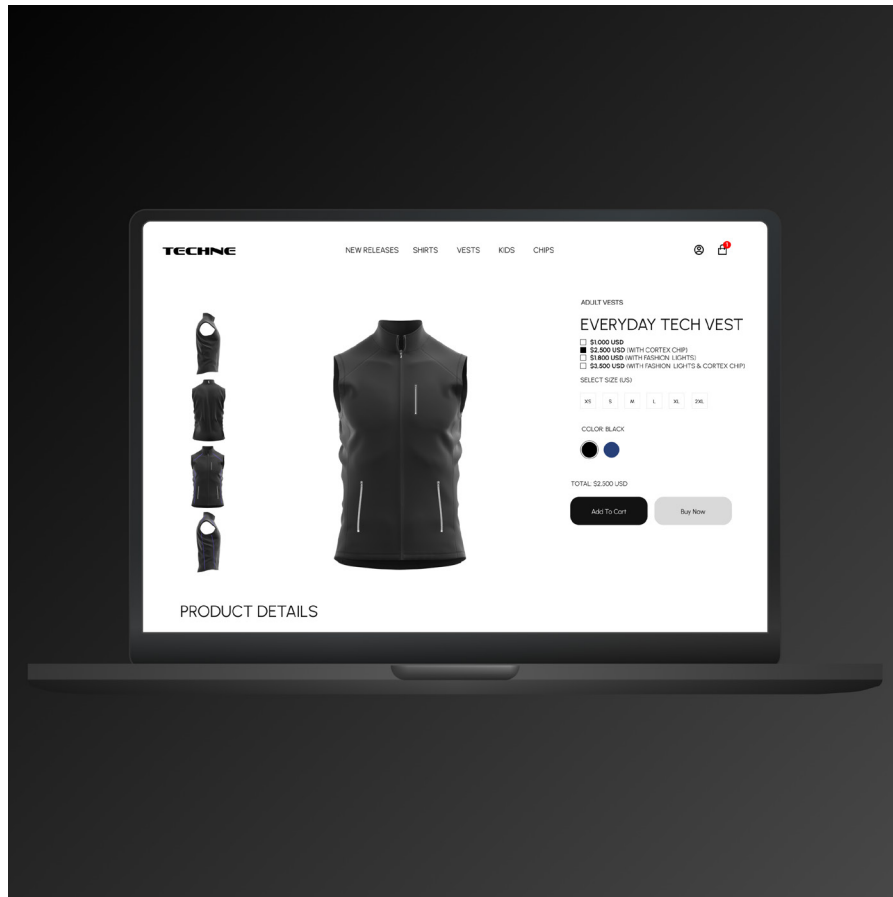
The printed conductive ink on the chest pocket further ensures connectivity to the chip when placed inside the pocket, as well as ink on the inside center of the back for supplying heat and power to the speakers and microphone through the inside lining.

Product Features:

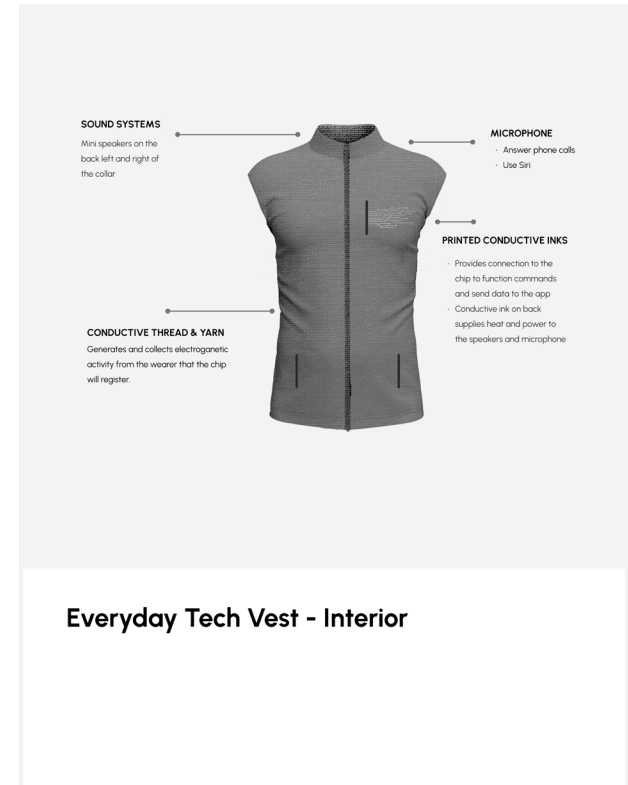
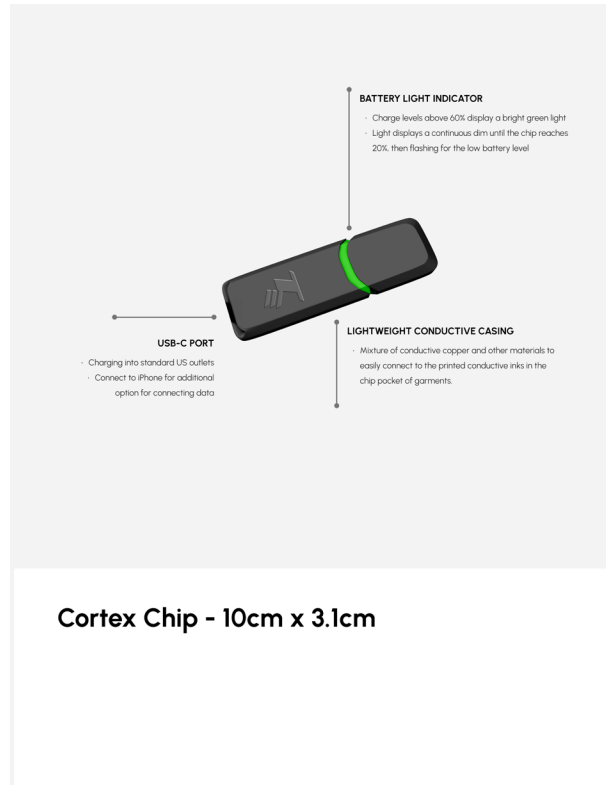
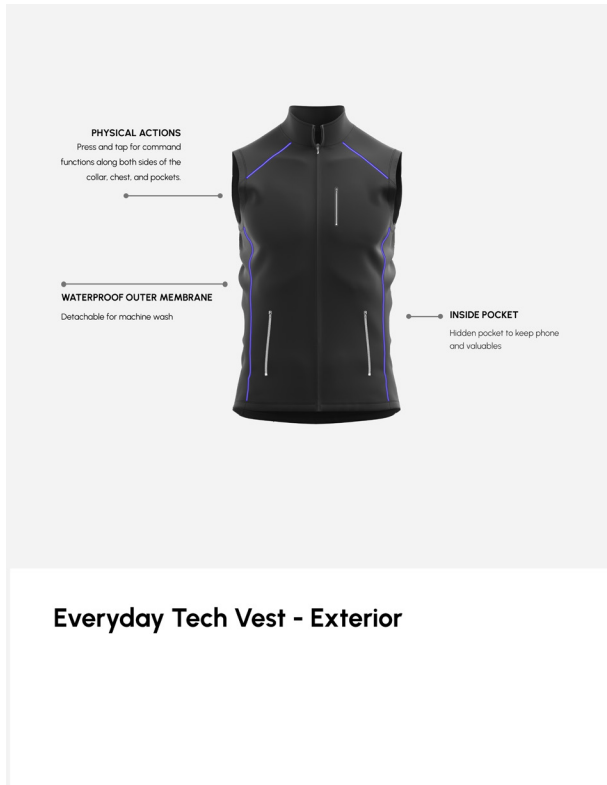
- Detachable lining to machine wash
- Waterproof outer membrane lining
- Hidden inside pocket for phone and valuables
- Customizable touch and press-actions on surface of vest through the phone app
- Customizable led color options for fashion accents.



FINAL MOCKUPS



FINAL MOCKUPS



beth anne

Process Book

BETH ANNE KAUFMAN

User Interface | UI/UX Design | *Spring 2025*