



**Ananth Nayak.**  
Product Design Portfolio

# Me.



## Hello

I am Ananth Nayak, graduate student pursuing my Master's in Design at University of California, Berkeley. I believe a lot of problems can be solved using simple designs that are human-centered and inclusive. I like to question the status quo to try and come up with new solutions and ideas. Design, for me, is not all about the looks and the feels. It's about how the end product works and the impact it has on the real world.

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[Ananth Nayak](#)

## Education

### Masters of Design (MDes)

University of California - Berkeley, CA, US  
2022 - Present

### B.Tech in Mechanical Engineering

Manipal Institute of Technology, KA, India  
2018 - 2022

## Experience

### Jacobs Institute of Design Innovation

CA, US  
Aug 2022 - Present

### Philips Innovation Center

MH, India  
Feb 2022 - July 2022

### Laboratory of Intelligent Manufacturing, Design and Automation (LIMDA)

AB, Canada  
Jun 2021 - Dec 2021

### Blackfrog Technologies

KA, India  
Apr 2021 - Jul 2021

## Digital Skills



SolidWorks



Fusion-360



Premiere Pro



Blender



Photoshop



Keyshot



Adobe XD



Figma



Ansys



Catia



Procreate



Raspberry Pi



Siemens NX



Arduino



Illustrator

## Analog Skills

Research

Prototyping

DFMA

Sketching

Visualization

Material selection

GD&T drawing

Manufacturing

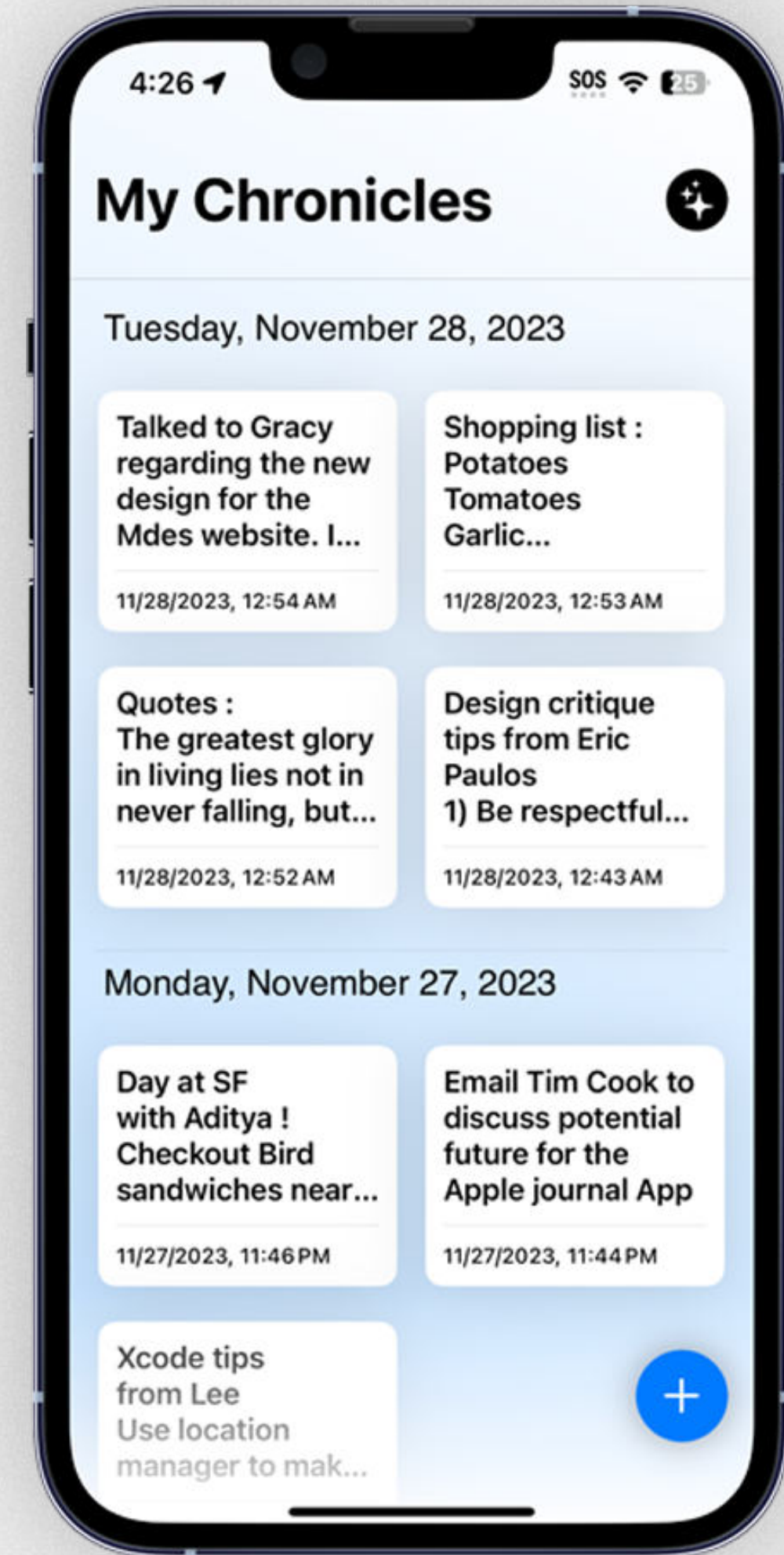
Concept Building

01

# “Chronicle”

Exploring Novel Approaches to Capture & Retrieve Everyday Life Events

Chronicle



Jin Yuato  
What was the name of that google guy who came to talk for TDF ?

Helena  
What was that book Eric asked me to read during desk critique?

Tong  
What did Phyllis ask me to get from the grocery store ?

What's the wifi password ?

Alana  
What is Ken's second name ?

Who is speaking at Design Field notes next Thursday ?

David  
Who is Gierad Laput ?

Yoon  
Who is speaking at Design Field notes next Thursday ?

Zach  
When is the Thesis journal due ?

Justin  
What's the name of that TV show John asked me to watch?

What task did Sabrina ask me to do 2 days ago ?

Clover  
What was the conversation me and Winny had 4 days ago ?

Gracy  
What's Sam's Address ?

Tomas  
Who is Matt ?

Jahnavi  
What did Justin ask me to do for tomorrow ?

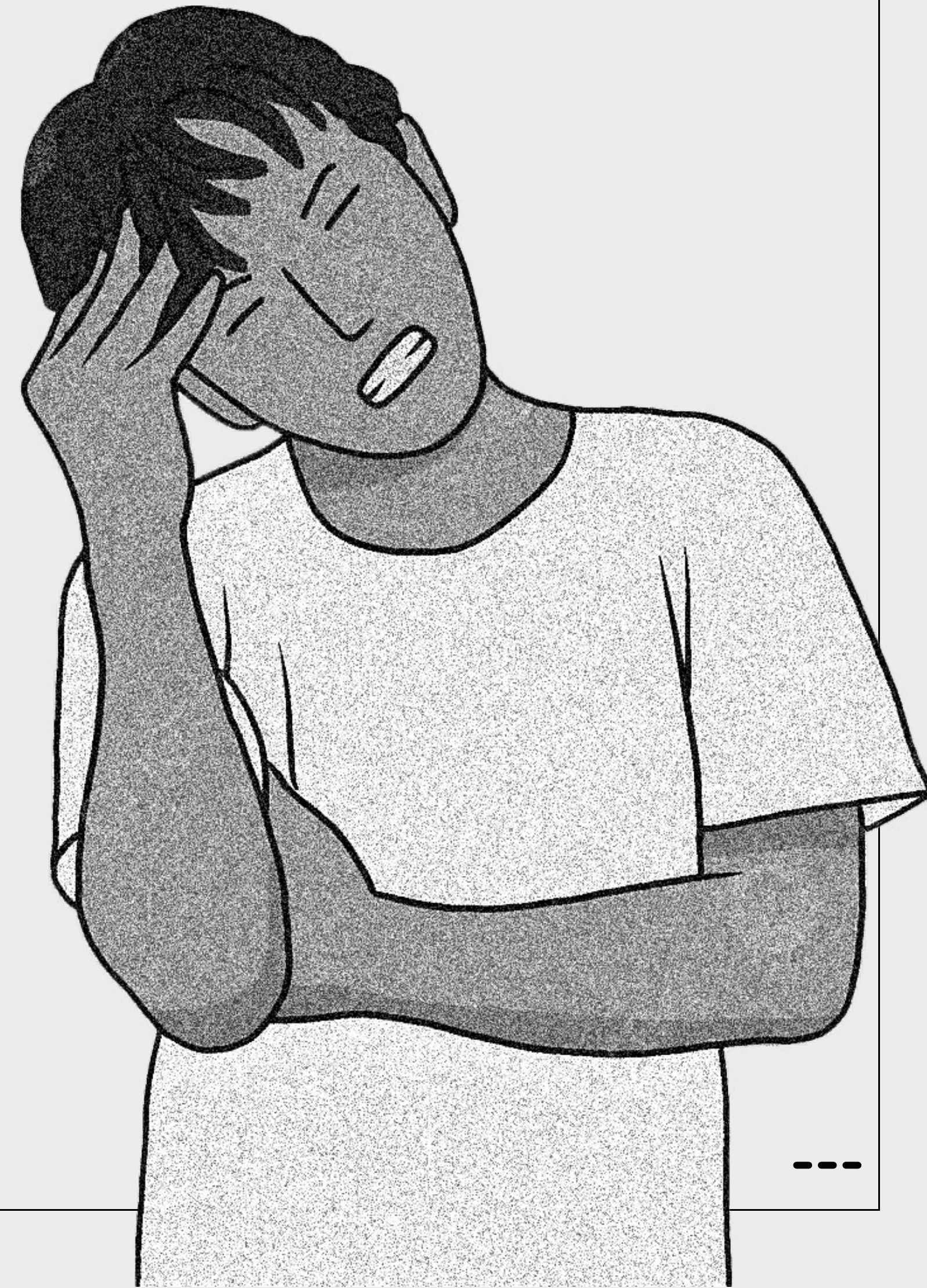
Haesung  
Where can I find information about Milestone 1 ?

Ash  
When was Carmela's birthday ?



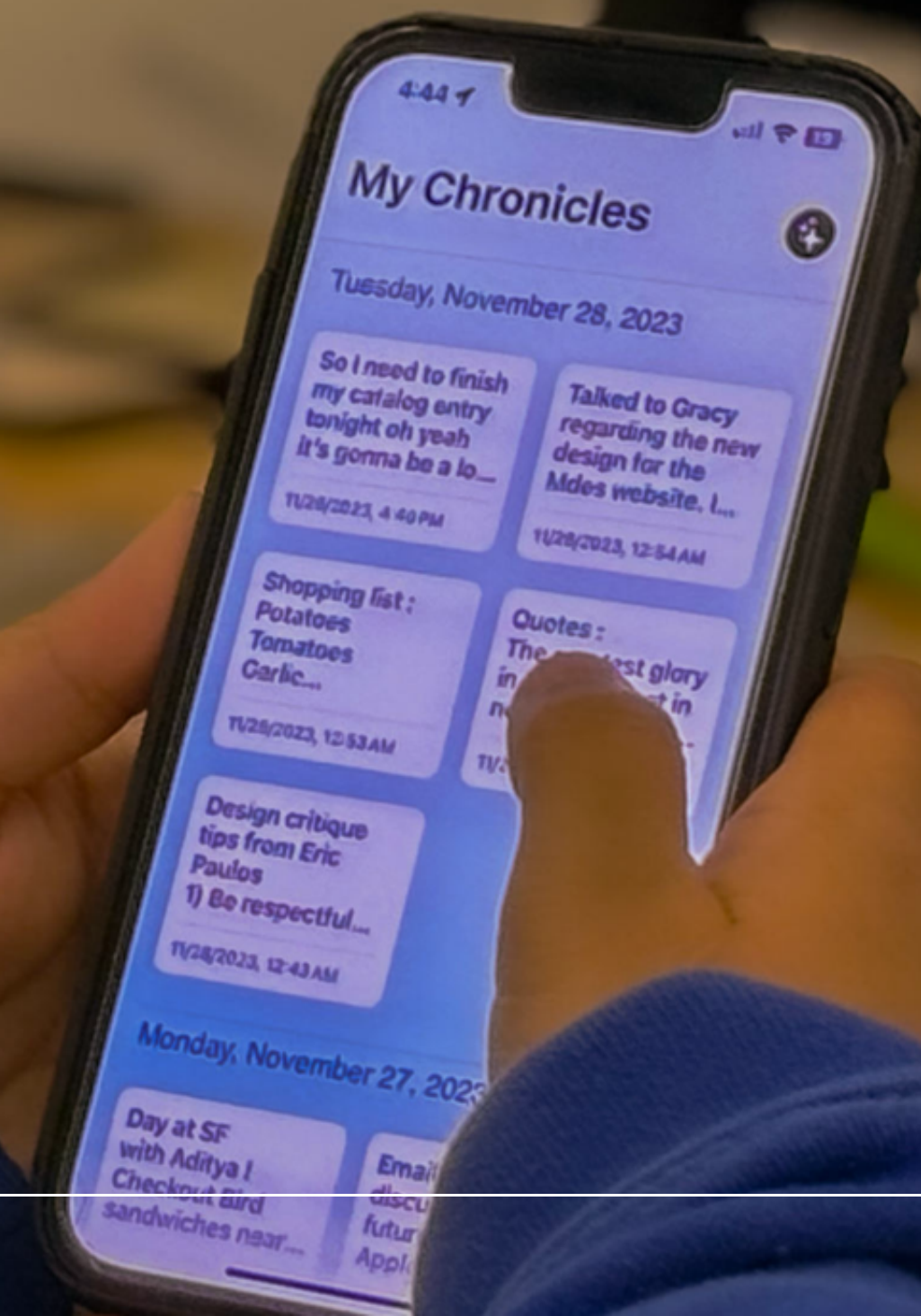
# How can we tackle digital dementia ?

- How can we intuitively extract information of our past in the future ?
- How can we change the way in which life events are captured and stored ?
- How can we reduce short term memory loss ?




Chronicle is a pioneering app designed to combat "digital dementia" by serving as a personal memory assistant. It seamlessly captures and organizes everyday memories and experiences through a user-friendly mobile application, synchronized with an Apple Watch. Users can effortlessly log audio recordings of conversations, meetings, or personal musings with a simple tap on their watch or phone, facilitating hands-free operation. The app also allows for note-taking and photo uploads, enriching the contextual recall of events.

## Chronicle



**[RAG]  
Retrieval  
Augmented  
Generation**

 Enhanced  
Text to Speech  
Speech to Text

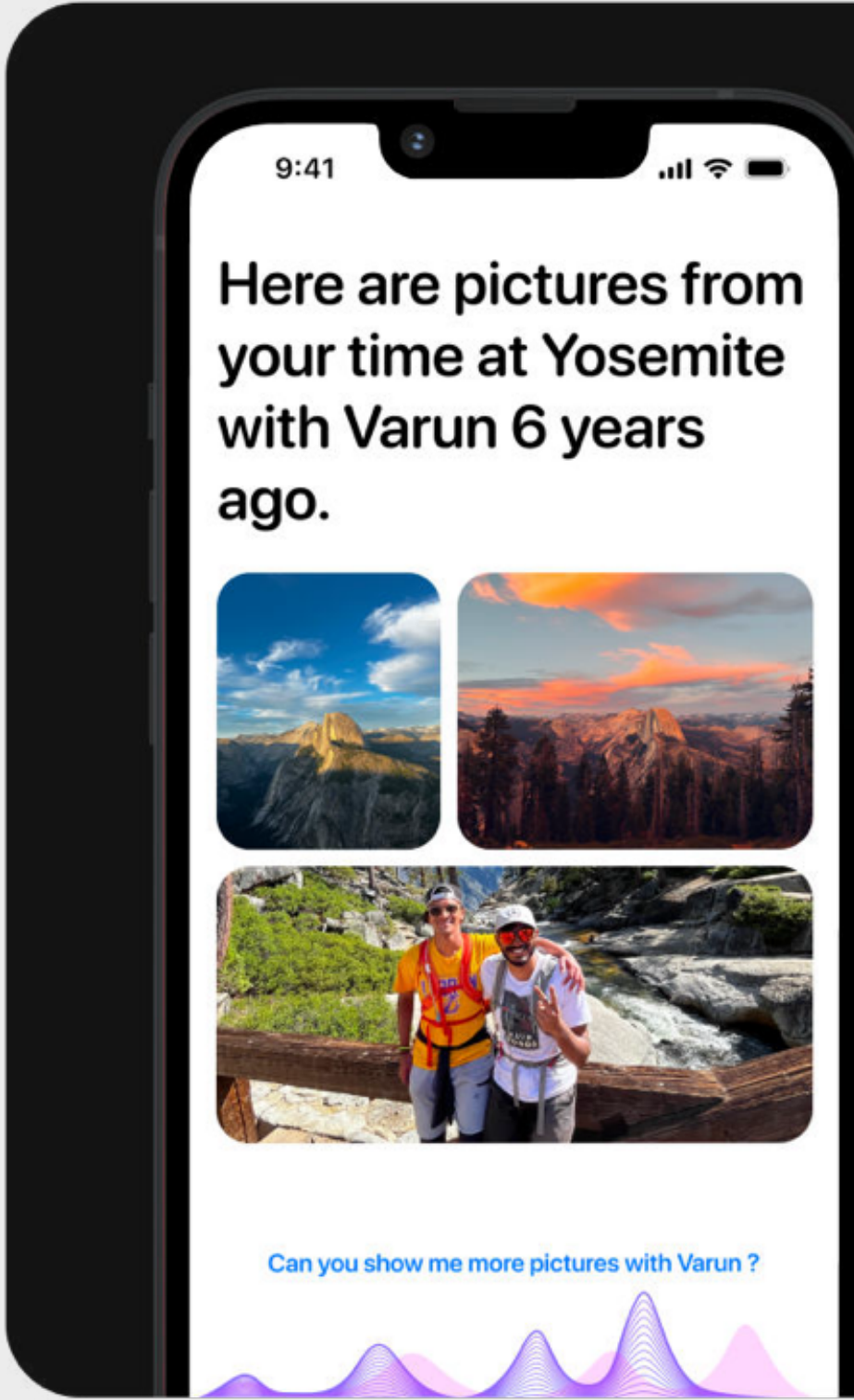
**LLM**

 Intuitive  
Logging

**Text  
Images  
Docs  
Voice**

  
Secure  
Enclave

Up to  
**1.5X**  
faster than Alexa  
\*Yet to be confirmed



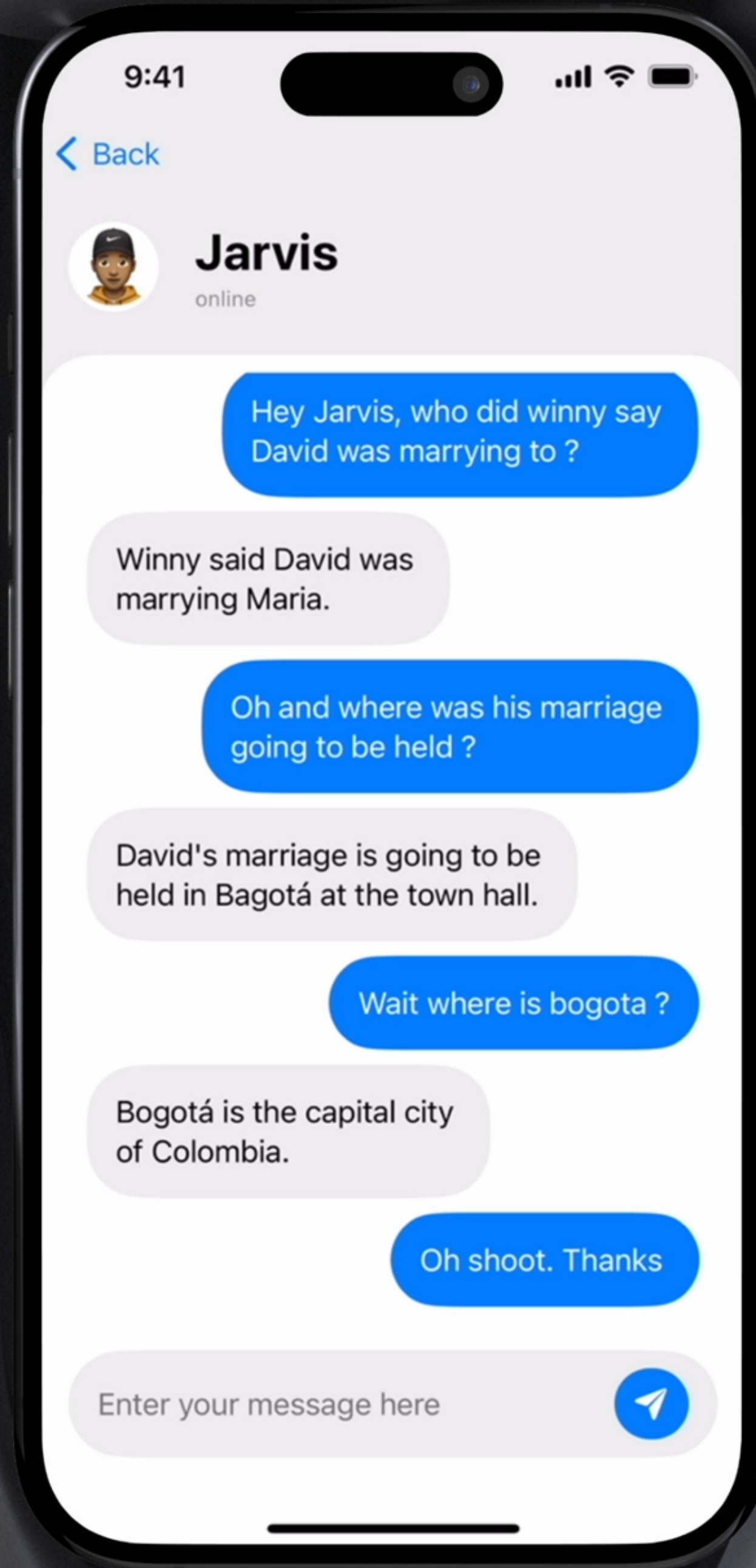
**Alter  
Ego**

**10X** More  
relevant  
than  
Google  
\*Yet to be confirmed

**Voice Log**  


 **Lang Chain**







02

# Sofar



SOFAR

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02

Brainstorm

# “How might we create remote physical presence?”

We collectively brainstormed 100 ideas to explore a range of ways to accomplish our goal of creating remote physical presence. We then grouped our ideas into categories and voted on three favorite ideas to develop into concept prototypes.

02

Prototype

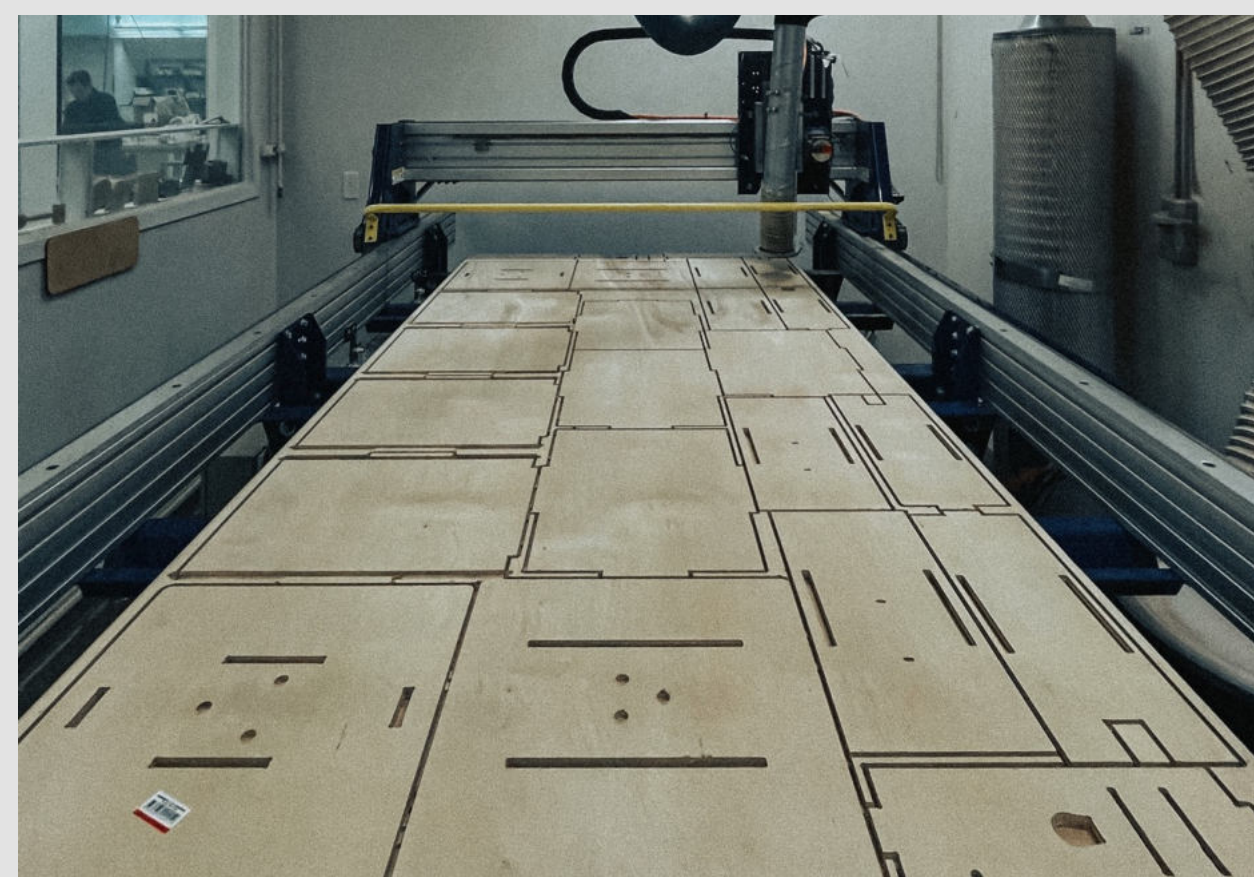
We then prototyped several approaches for conveying remote presence via interactive sofa. we created a matrix to plan how two identical sofas in each partners' living space might move: When one partner sits on the sofa, the other partner's sofa platform will rise in the identical location, and vice versa. We imagined this interaction would make it feel like the user was sitting next to their partner



SOFAR

02

Manufacture



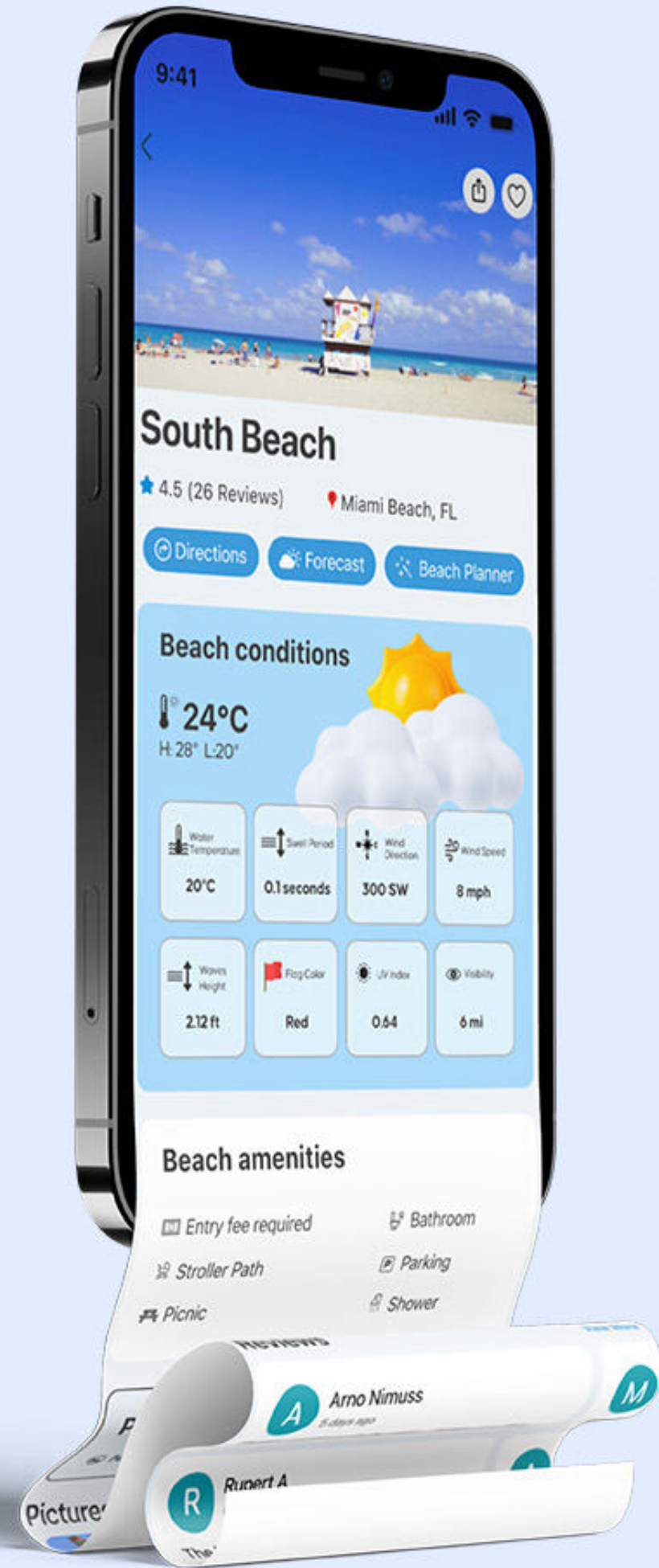
SOFAR

We cut, primed, sanded and painted the plywood to create 8 modular seats that combine to form one set of sofa. Each seat was made of 2 parts that would slide over each other. Once the sofa platforms were assembled, we installed the linear actuators, batteries, and stepper motor driver to make it move.

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03



# One App Everything **Beaches**

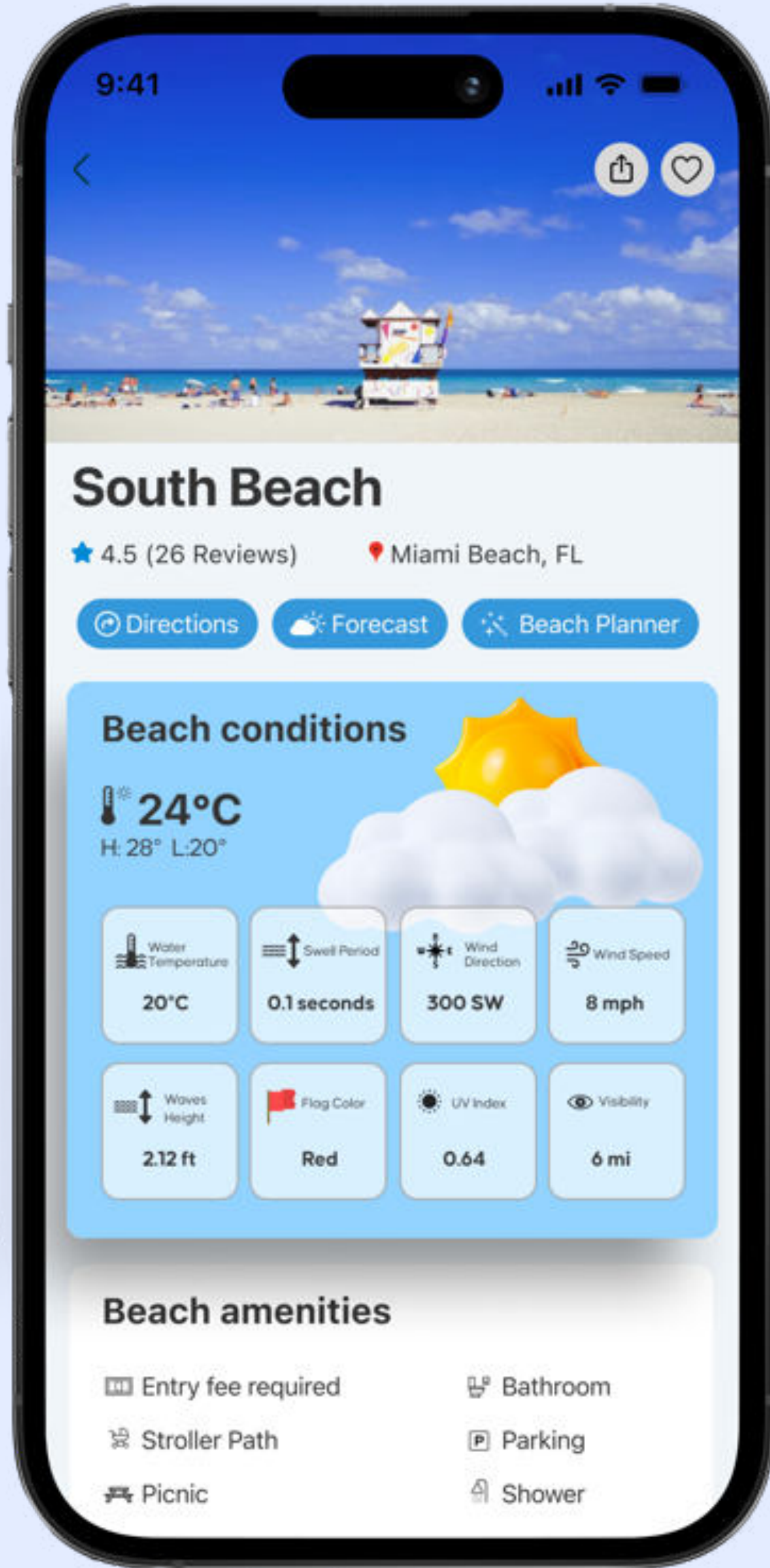


 [Beaches.app](https://beaches.app)

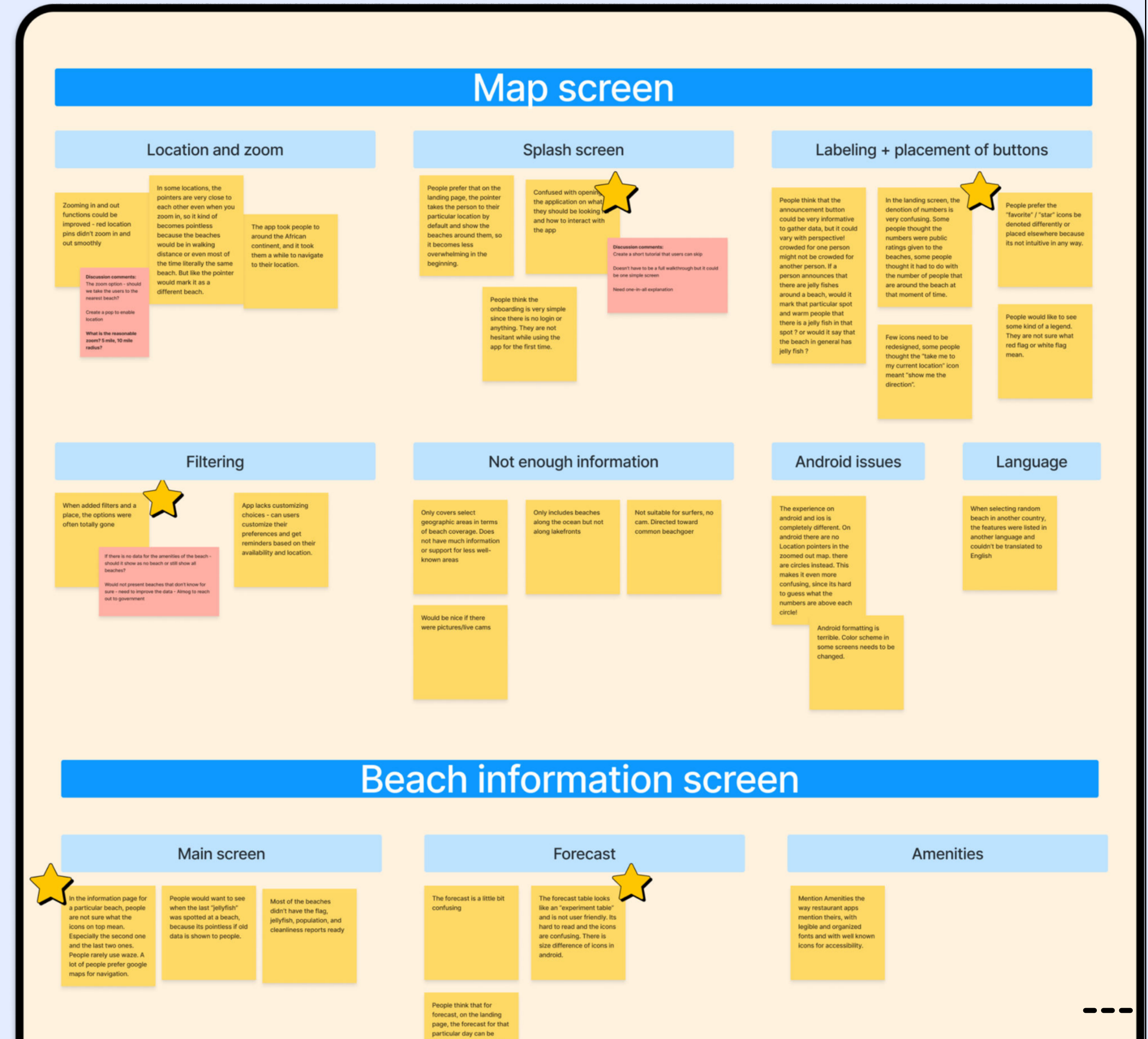
Overhauled a 5-year-old UI, implementing a cohesive design system to replace the fragmented previous one, and modernized the brand in line with current trends.

Transformed the app's Hebrew foundation to English through code adjustments. Designed and developed a review and rating feature incorporating google places API.

Refined the product experience by restructuring the excessive user data into a logical, user-friendly hierarchy.

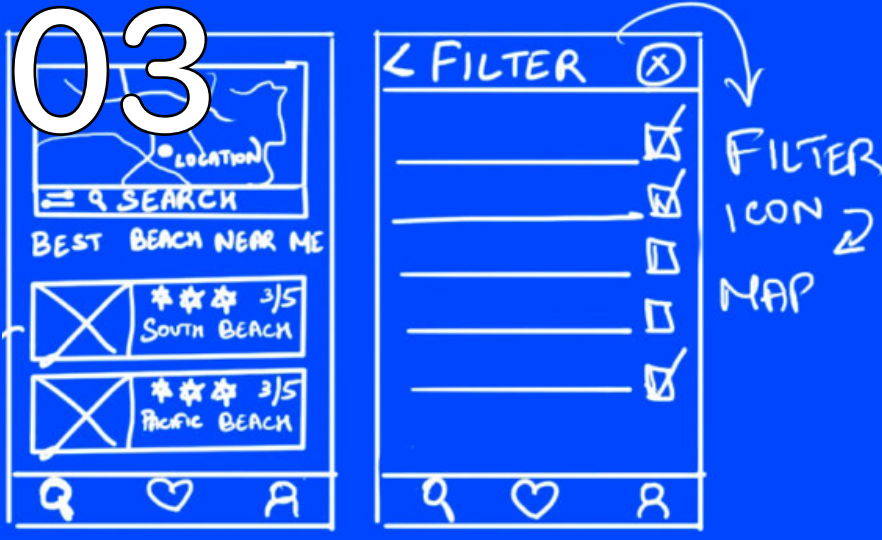


In a quest to unlock valuable insights, I engaged with a diverse array of 10 distinct people that could be categorized within the 2 main personas, spanning travelers, avid surfers, beach enthusiasts, students, and devoted dog owners. I closely observed the way they interacted with the app, asking them questions throughout the interview in order to delve into the intricate fabric of their cognitive journeys. This helped me construct a detailed affinity map to understand user pain points and what features were required to be built out.

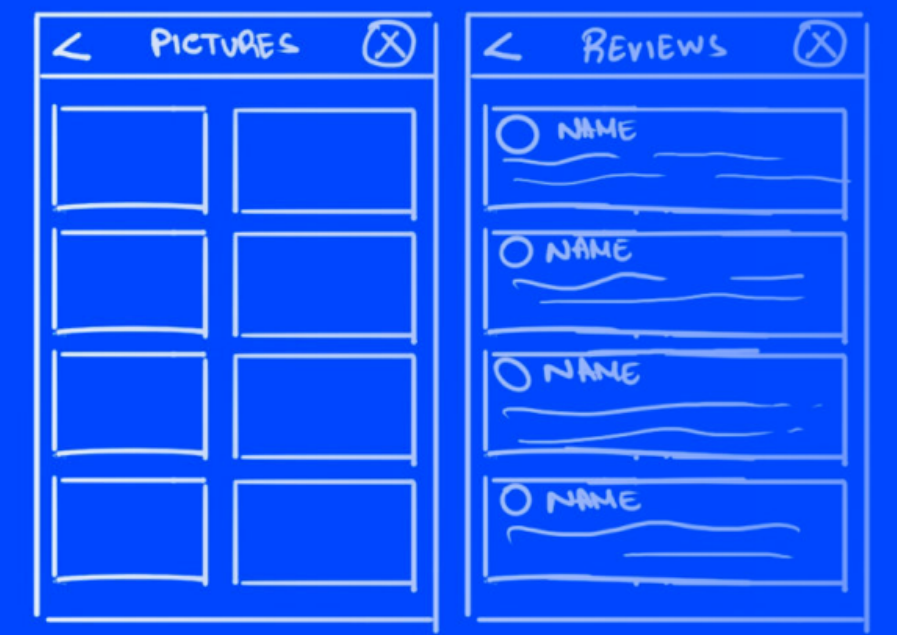
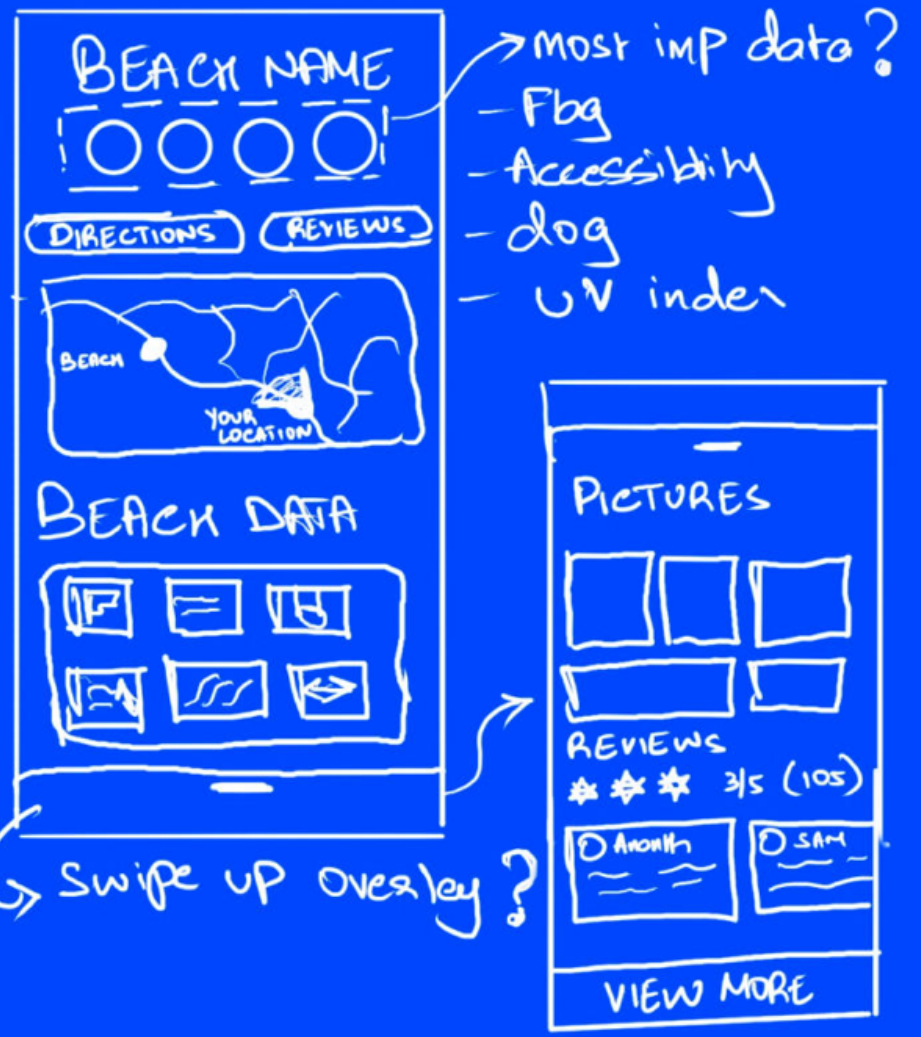
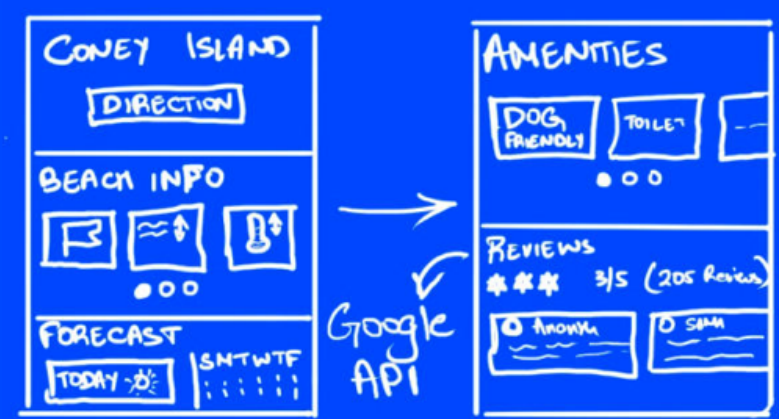




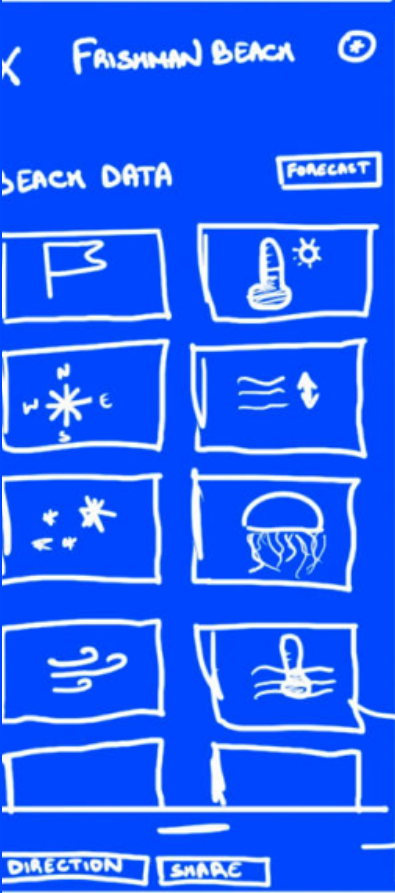
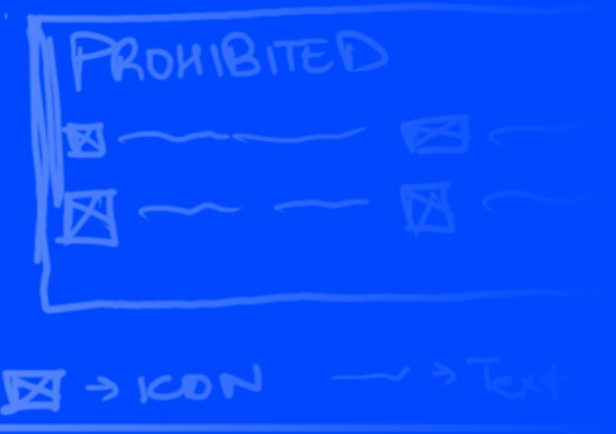
03



Beach recommendation

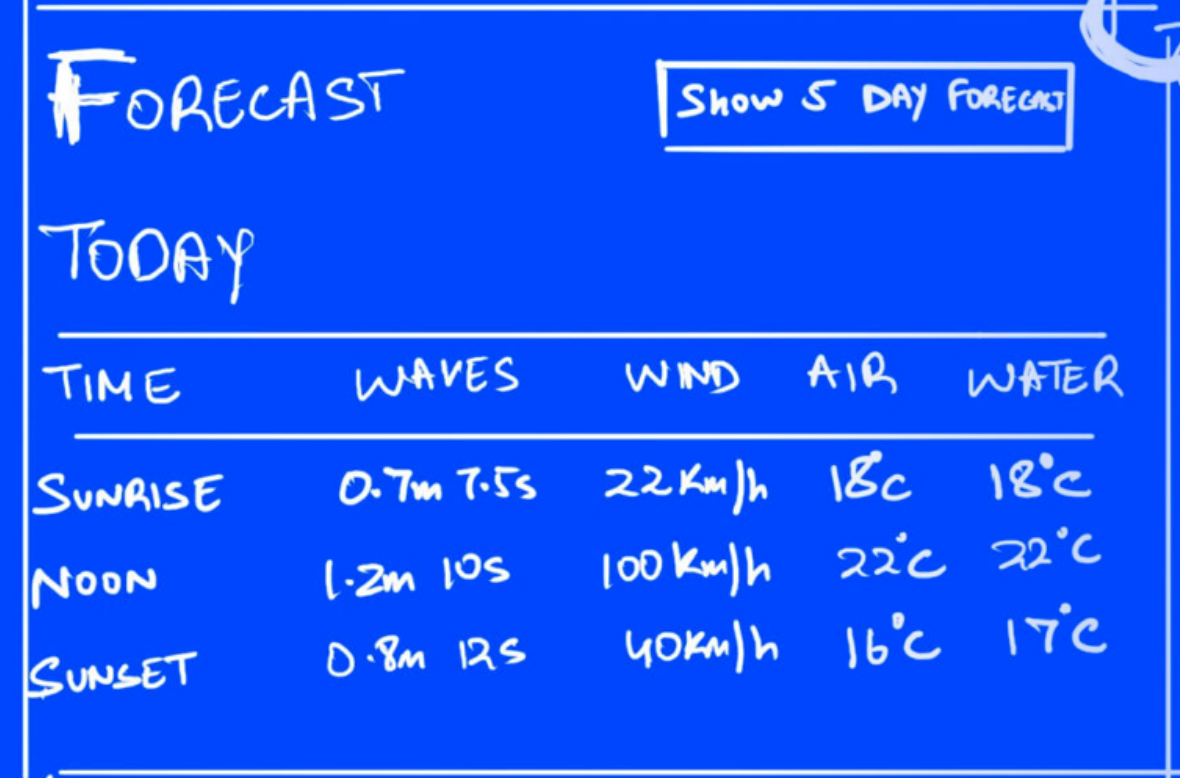


FULL PAGE REVIEW IMAGES? MAYBE OVERLAY?

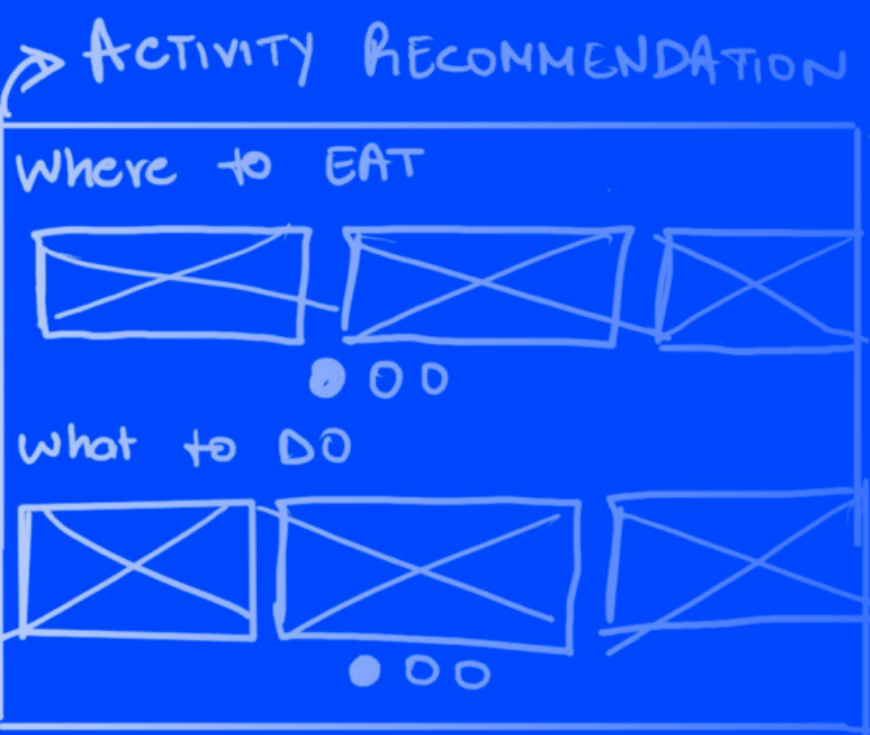


Can you have infinite scroll with overlay?

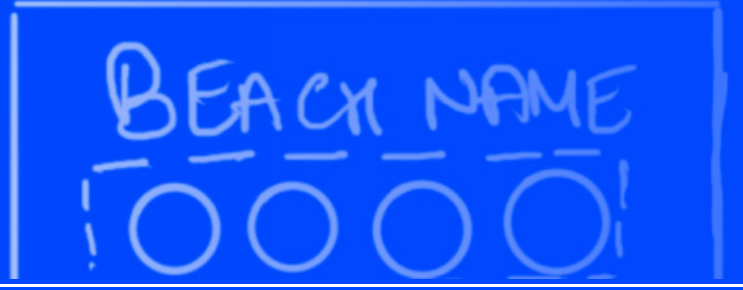
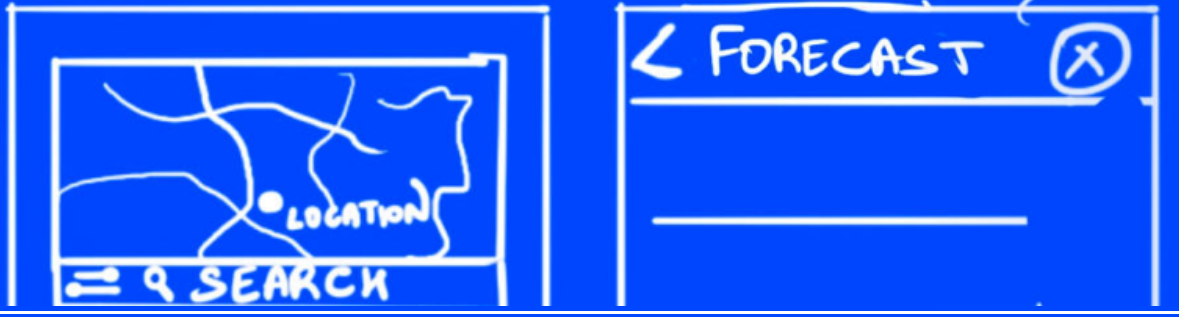
main beach data overlay



FORECAST BLOCK. IS 5 DAY FORECAST ENOUGH??



Beaches App



In order to come up with the ideal user experience, I embarked on a creative journey by brainstorming diverse concepts. I fashioned several lo-fi prototypes that served as preliminary blueprints. Each prototype encapsulated unique features, allowing me to explore multiple avenues before refining the final design. As the design journey evolved, I took those initial sketches up a notch. I transformed them into mid-fidelity prototypes, giving them more substance and style. These prototypes weren't the final thing yet, but they were like the exciting 'drafts' that showed off the app's potential look and feel.

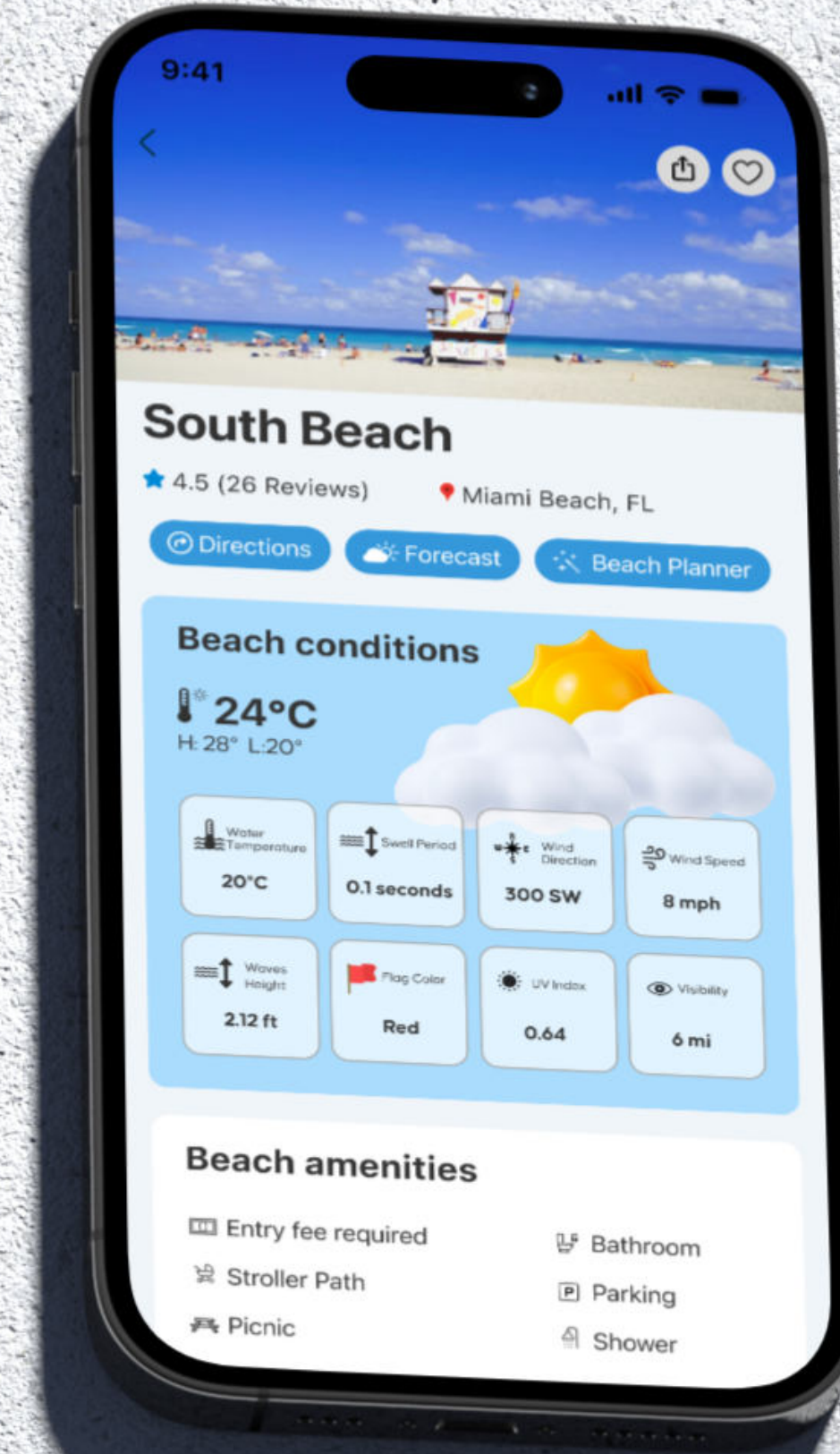
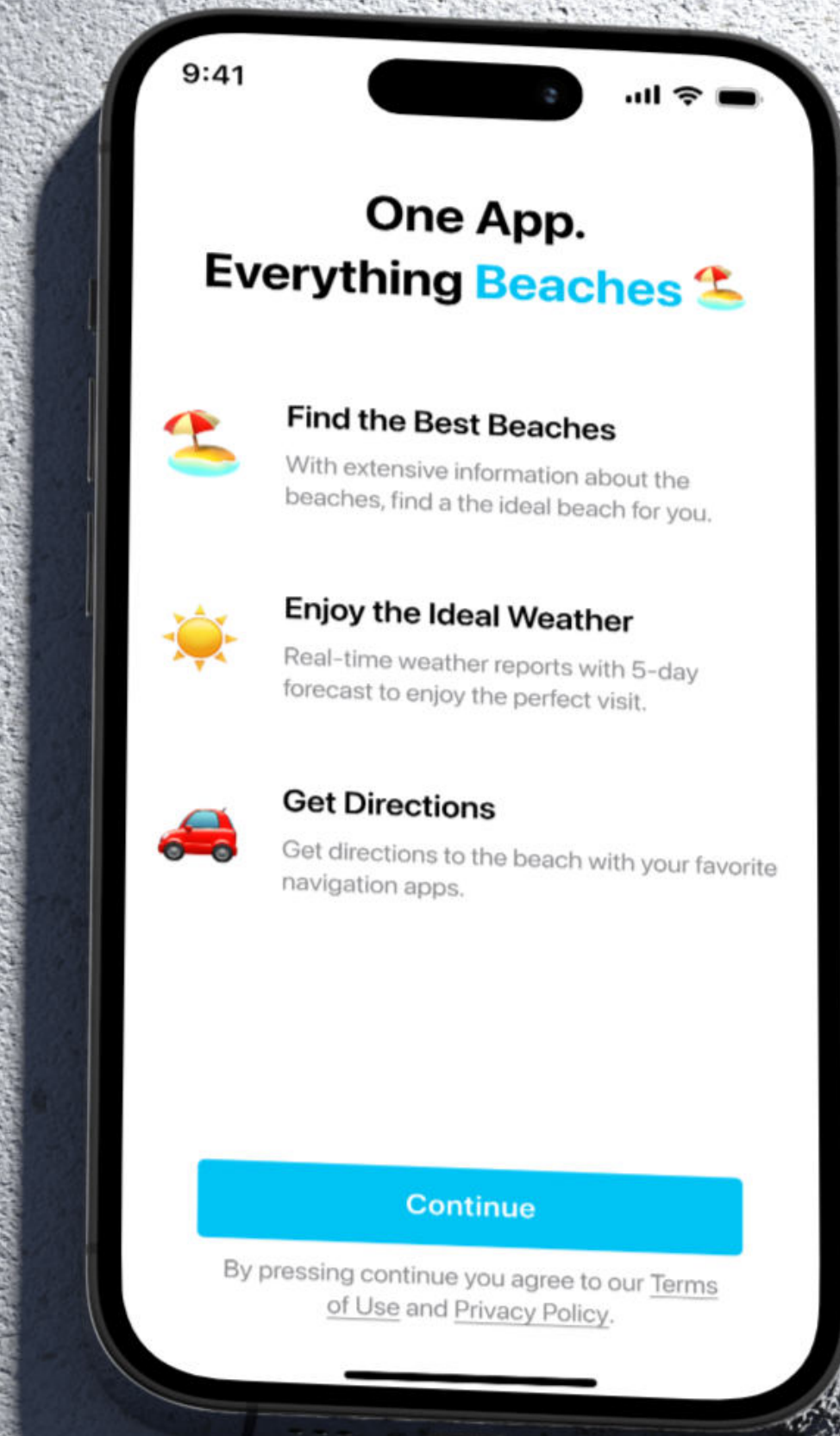
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03

Prototype



Beaches App



04

# Emvólio

Emvólio

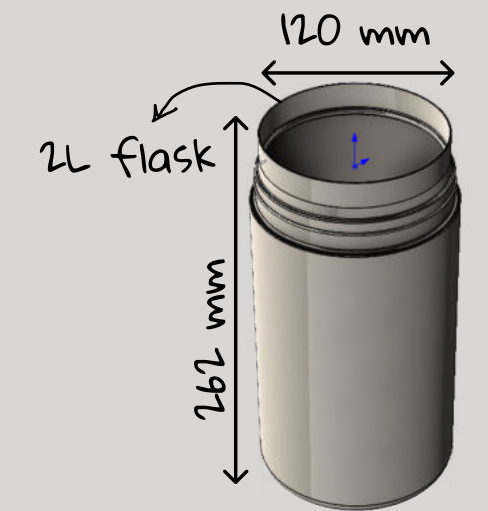
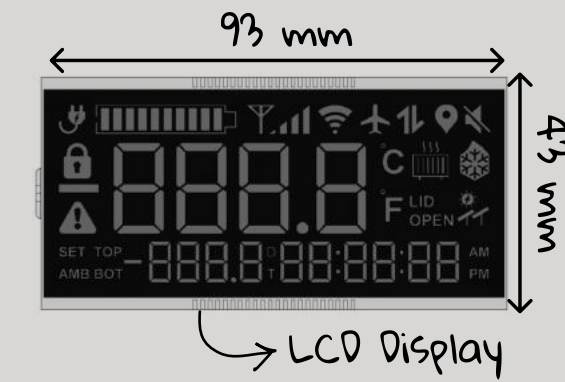
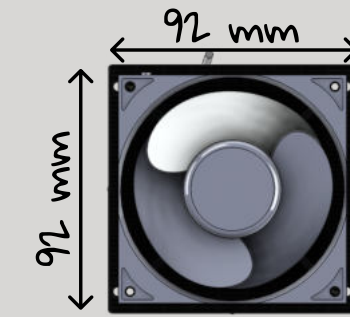
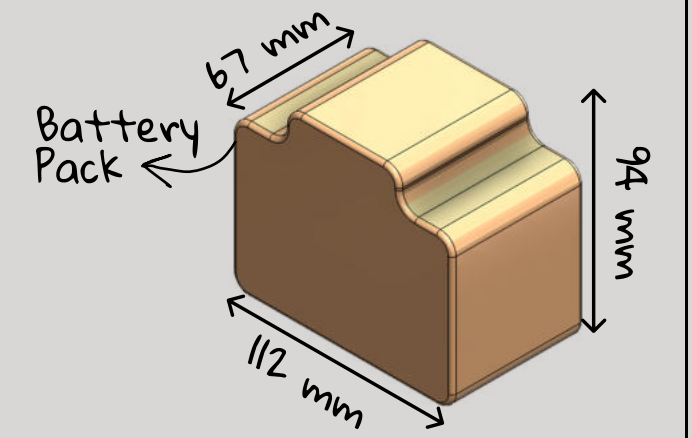
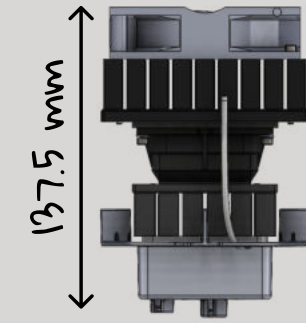
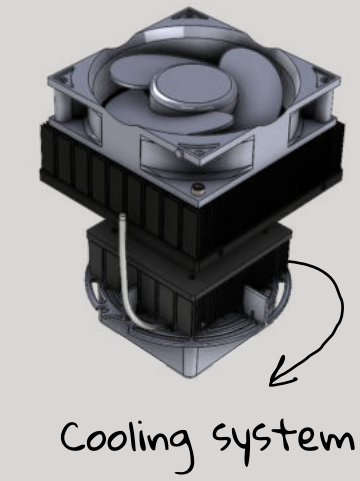


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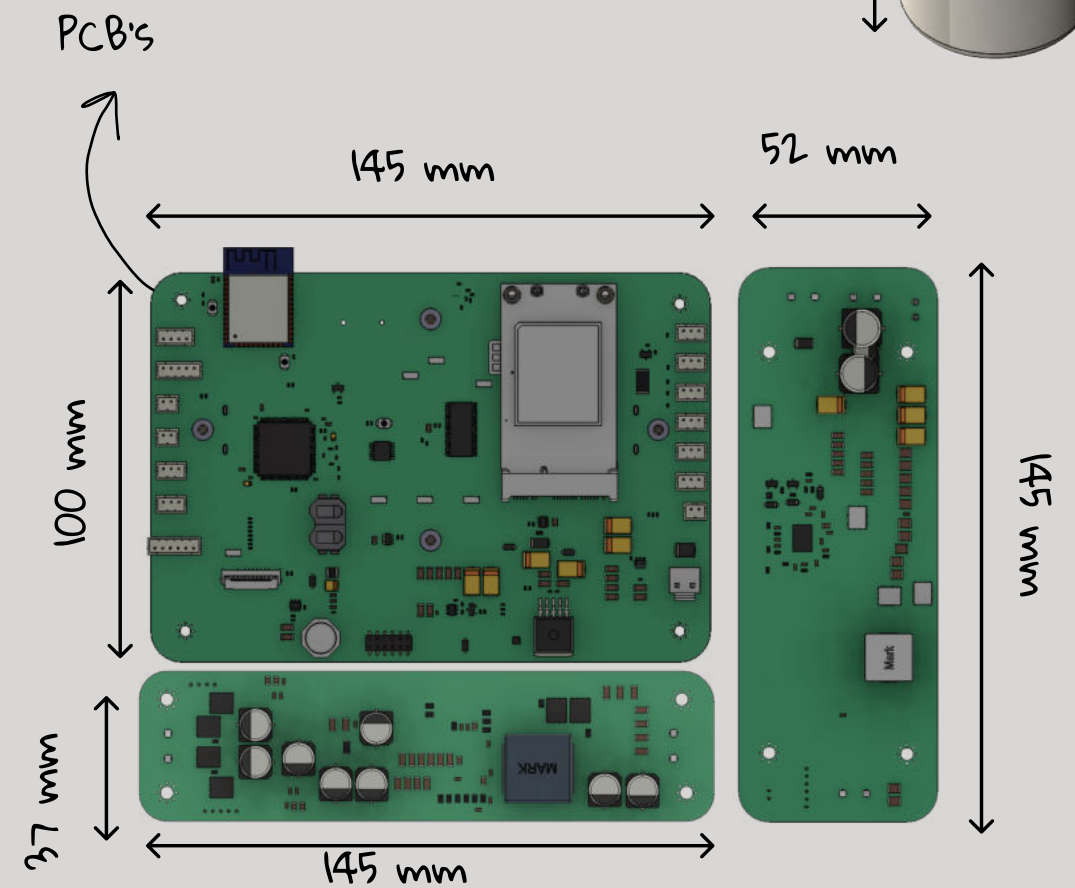
One of the biggest contributors to vaccine wastage is the disruption in the cold chain supply. This means that temperature-sensitive vaccines, which must be stored at 2-8 degrees Celsius to remain efficacious, often lose their effectiveness when exposed to inappropriate temperatures. Such disruptions can occur due to power failures, equipment malfunctions, or logistical challenges, leading to significant losses in vaccine viability and effectiveness.



**WHO estimates  
50% of vaccines go to waste  
before they are administered.**



New components



The task was to revamp the old emvolio design, bring about a new look to the product, and increase the product's functionality. The product had to be designed to have a capacity of 2 liters, an integrated IoT system, a whole new display, and a more compact design for easy transport. The overall aesthetics of the device was also to be worked on to make it look more appealing and make it easier to carry around the field during vaccine deployment.

1



2



3

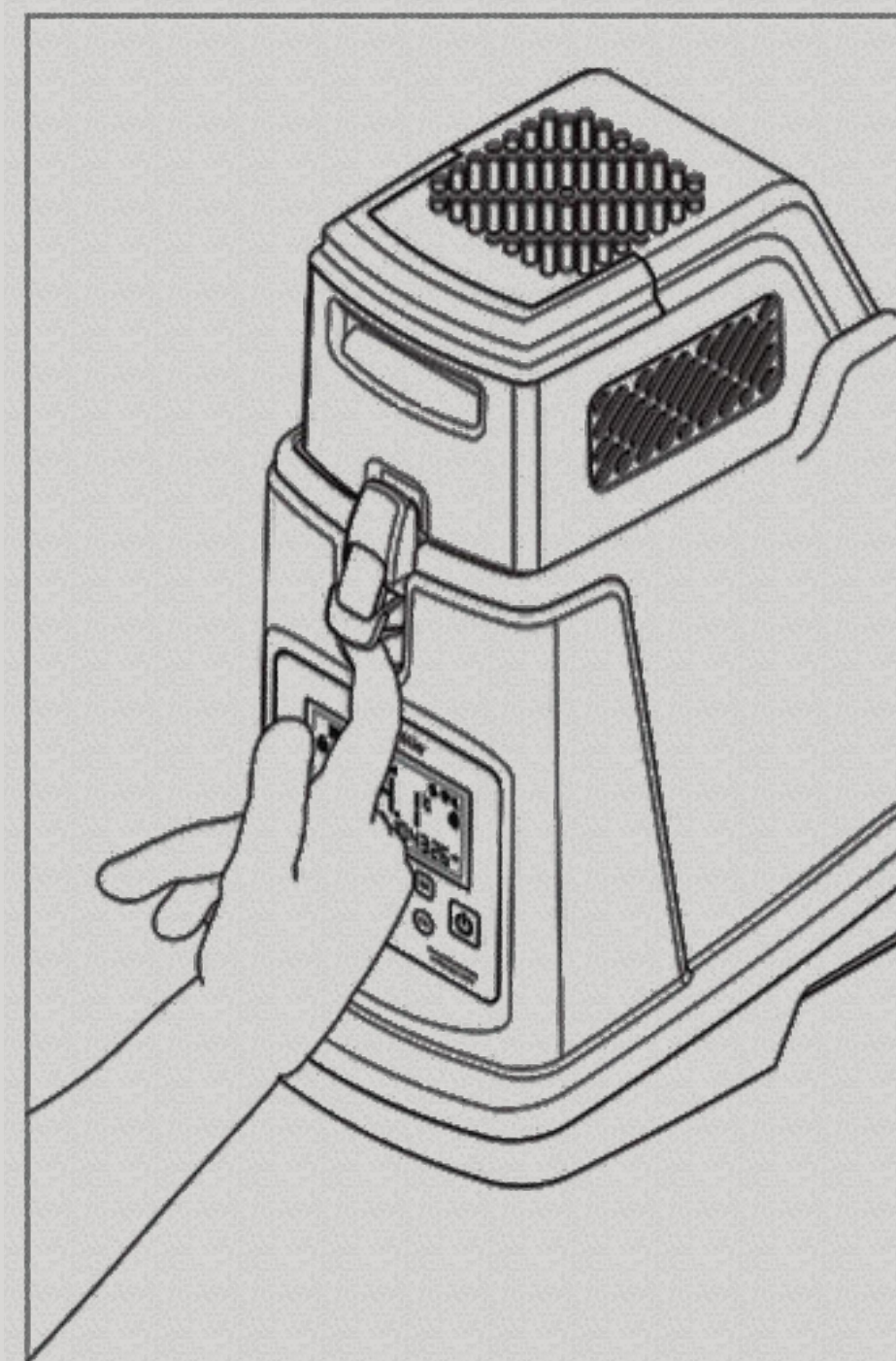


4

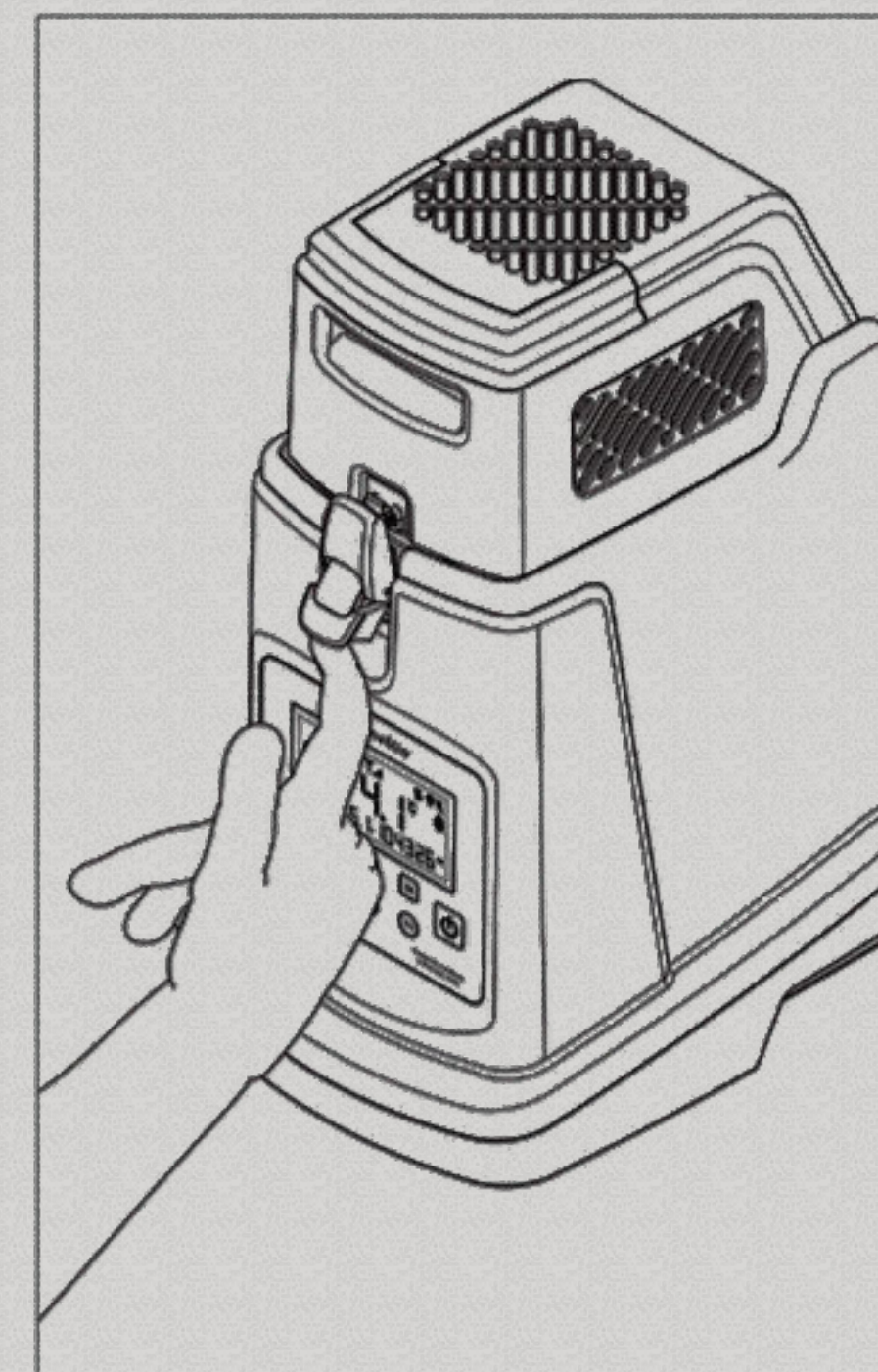


1. In-house 3-D printed (FDM) prototype of using PLA material.
2. CNC machined prototye using ABS material.
3. 3-D printed (SLA) prototype using ABS material.
4. Pilot production batch made using ABS material and silicon mould.

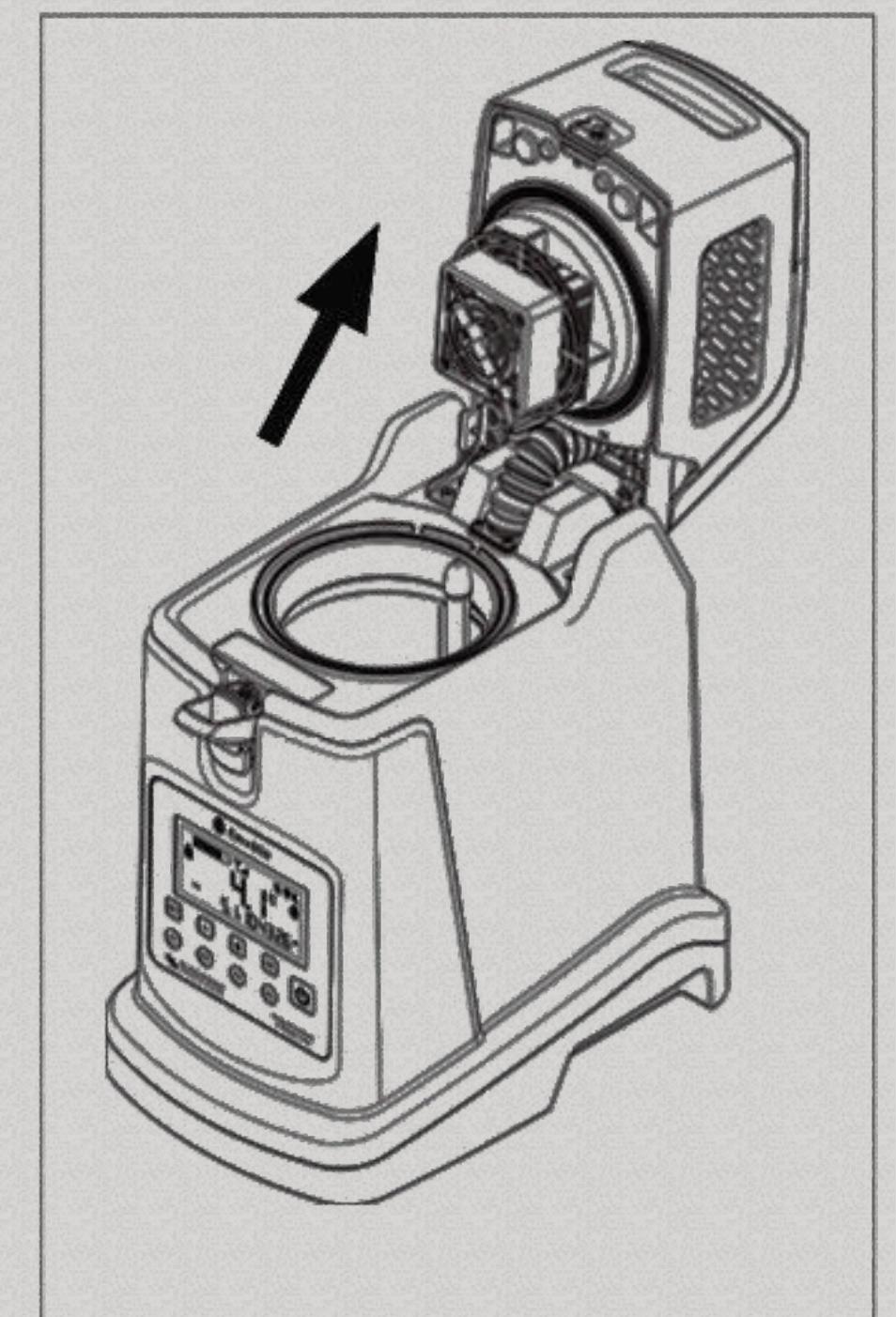
First, the optimal form factor and component placement were determined, followed by designing the lower body's flask and electronic housing. This was made in two halves for easy assembly and mounting. The design process was then applied to the upper half, the cooling system casing, and both halves were joined using 180-degree hinges and a locking latch. Subsequently, PCB routing and CMF were finalized. After in-house 3D printing of several prototypes, pilot productions were conducted in batches using silicone molds. The final products were manufactured through injection molding and assembled in-house.



*Step a: Holding the lock*



*Step b: Lifting the lock*



*Step c: Lift Top Cap*



