

eHealth

The next frontier of health care



AirbagStudio



The future of health care is rapidly evolving
to become patient-centered, remote,
home-based, data-driven, and transparent





The next frontier of health care

Patient-centered

Patient-centeredness must be value-based, transparent and personalized: patients expect to be treated as people with individual needs. Consumers demand greater access to health care and a smoother experience.

Remote

Telemedicine visits grew by more than 3,000% at the start of the COVID-19 pandemic. These numbers signal the potential of virtual care to spur great innovation in care delivery more broadly.

Home-based

Home infusions, home dialysis, primary home care and home hospital models are growing rapidly. These segments are enabled by technology.

Data driven

Advances in areas such as remote patient monitoring make data available in the workflow at the time of the physician encounter and personalized through analysis and insights to provide the right information at the right time.

Transparent

Future requirements for electronic health record providers will see the need to make data available to consumers that is structured, transparent and interchangeable with other platforms.



We develop advanced, intuitive **mobile ecosystems** built to fit the needs of businesses.

Airbag Studio was founded in 2017 after its founding partners had worked separately and together for several years on the very first mobile systems. In the last 3 years the projects carried out in the health and wellness and medical fields have grown both in number and complexity allowing us to develop specific expertise in this market.

We ensure all software design and development processes according to IEC 62304 and design all APIs with FHIR-compliant tools for easy integration with third-party services and to the National Health System.



Single point of contact for end-to-end projects

We partner with the companies we work with and accompany them along the entire path necessary for the success of their project.

From the initial fine-tuning of the strategy, driving toward the desired goal, through the design of the user experience, information architecture, and flows. Creating high-fidelity mockups and interactive prototypes, we finally arrive at the actual implementation, with mobile, front-end and backend development deployment always validated through automated testing and with real users.

Together we offer the breadth of services, skills and expertise of a large company, while retaining the dynamism and agility typical of small businesses. To this we add attention to detail and relationships, with the intention of building a relationship of partnership and not mere supply.

A single point of contact for two companies means simplifying project management, relieving our clients from coordinating multiple suppliers.

The shared working method allows us better integration, widespread know-how and maximum effectiveness in the transitions between different activities.



Case Studies

Respiro app

Improving respiratory care with digital medications

Respiro combines connected inhaler sensors, digital experiences, and data science to help deliver better outcomes.

We formed a unique team with the client to develop an experimental project (still ongoing) in which there was a need for full design and technology support. We then built the full suite of applications: the mobile application, the web dashboard for clinicians, and the backoffice platform for the client.

Sensors are add-on or directly integrated into the inhaler and record usage the correct inhalation of the medication.

The patient app provides personalized guidance to help follow the dosage correctly.

The dashboard provides caregivers with detailed information on patient data and predictive analytics on how to improve therapies.

Good morning, John

Asthma Risk Index
Milan, Italy - 31 Jan 2002, 17:52

Very low
+1h +2h +3h

Excellent 25° 56% Very high
AIR QUALITY TEMPERATURE HUMIDITY POLLEN

Daily schedule

- Indacaterol RS01X
Synced at 09:27
09:00
- Breo Ellipta
Manually tracked
09:00

Today Journal Data Medications

- Puraero RS01X 2x 7:02
- Salbutamol 1x 8:51
(Preemptive)
- Symptoms 9:12
Cough Pollen
- Salbutamol 1x 11:46
(Preemptive) Wheeze Cough
- Symptoms 14:17
Cough
- Ventolin 1x 16:21
(Preemptive) Wheeze Cough Pollen +2
- Puraero RS01X 2x 7:02
- Self assessment Ok 18:41

Medications [Add new](#)

- Puraero RS01X
2 at 7:00, 2 at 18:00
- X2:A0:H47:D6
Synced at 09:15
- Plisano RS01X
1 at 7:00

Today Journal Data Medications

Data
8-14 September, 2021

- Indacaterol RS01X**
Synced at 9:20
Inhalations taken **80%**
- Breo Ellipta**
Manually tracked
Inhalations taken **80%**
- Ventolin HFA**
Manually tracked
Total events **6**
- Symptoms**
Days with symptoms **3**

Today Journal Data Medications

respiro dashboard

Organization Name / Airbag Program

Airbag Program

Patient	Condition	Rescue Use last 7 days	Adherence last 7 days
Wilson, Jenny	COPD	6 -0.5	Combivent Respimat 80%
Hoppus, Mark	Asthma	N/A	Indacaterol RS01X 60%
Delonge, Tom	Asthma	4 -1.5	Breo Ellipta 50%
Connors Sara	Asthma	10 -1.5	Combivent Respimat 90% Breo Ellipta 70%
Barker, Travis	Asthma	9 -1.0	Indacaterol RS01X 80%
Courtney Henry	Invited		
Hann Alyssa	COPD	N/A	Breo Ellipta N/A

Copyright 2021 AMIKO

Support | Contact

Current Treatments
17 Apr - 11 May 2021

Step Down Adjustment by Patient

Ventolin
Albuterol
Events per week **12**

Ventolin 100, Flow
As Needed

Rescue Use

- Day Time Events (18)
- Pre-emptive

Events

26 27 28 29 30

phApp

A tool in the hand of the neurosurgeon

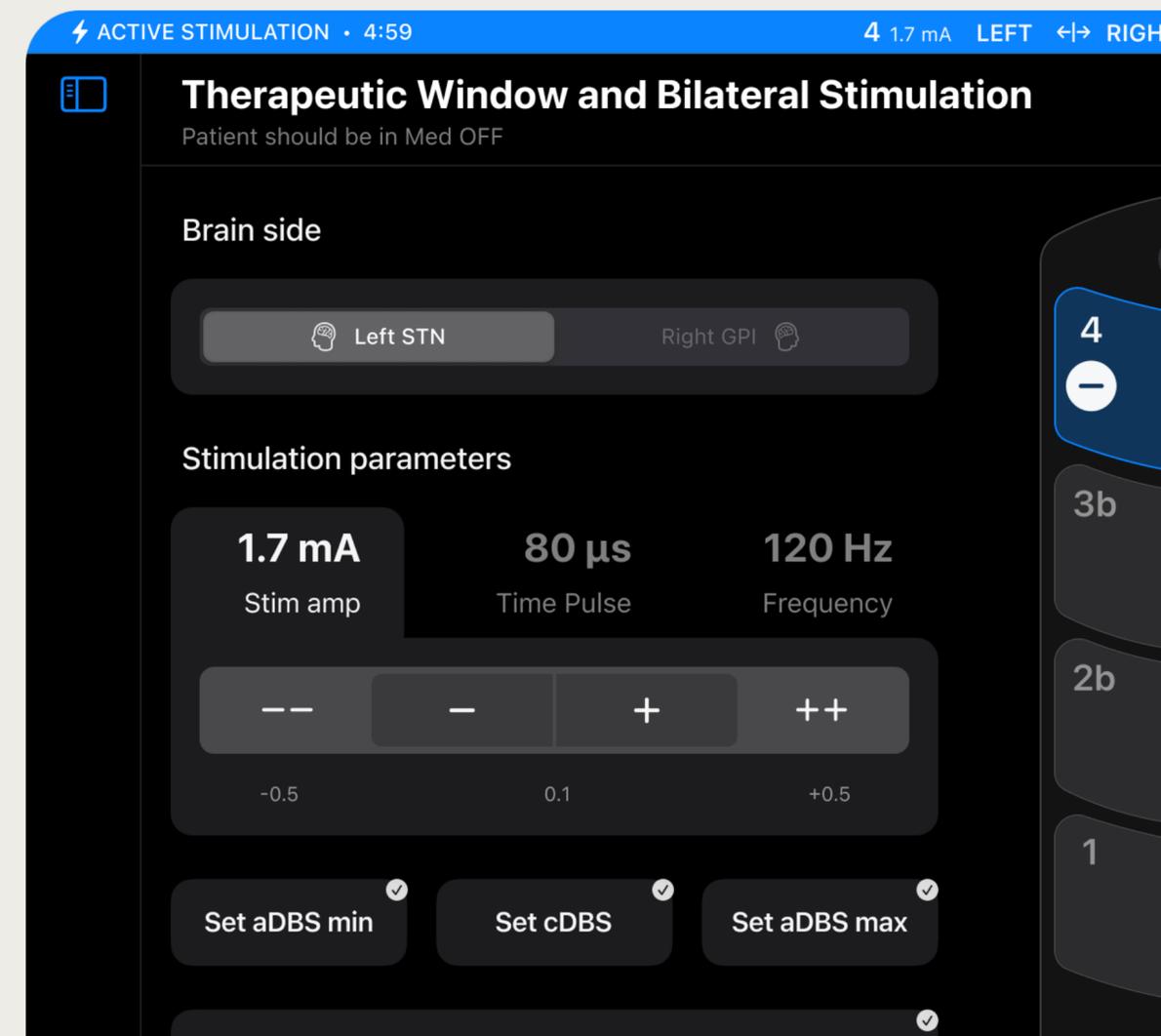
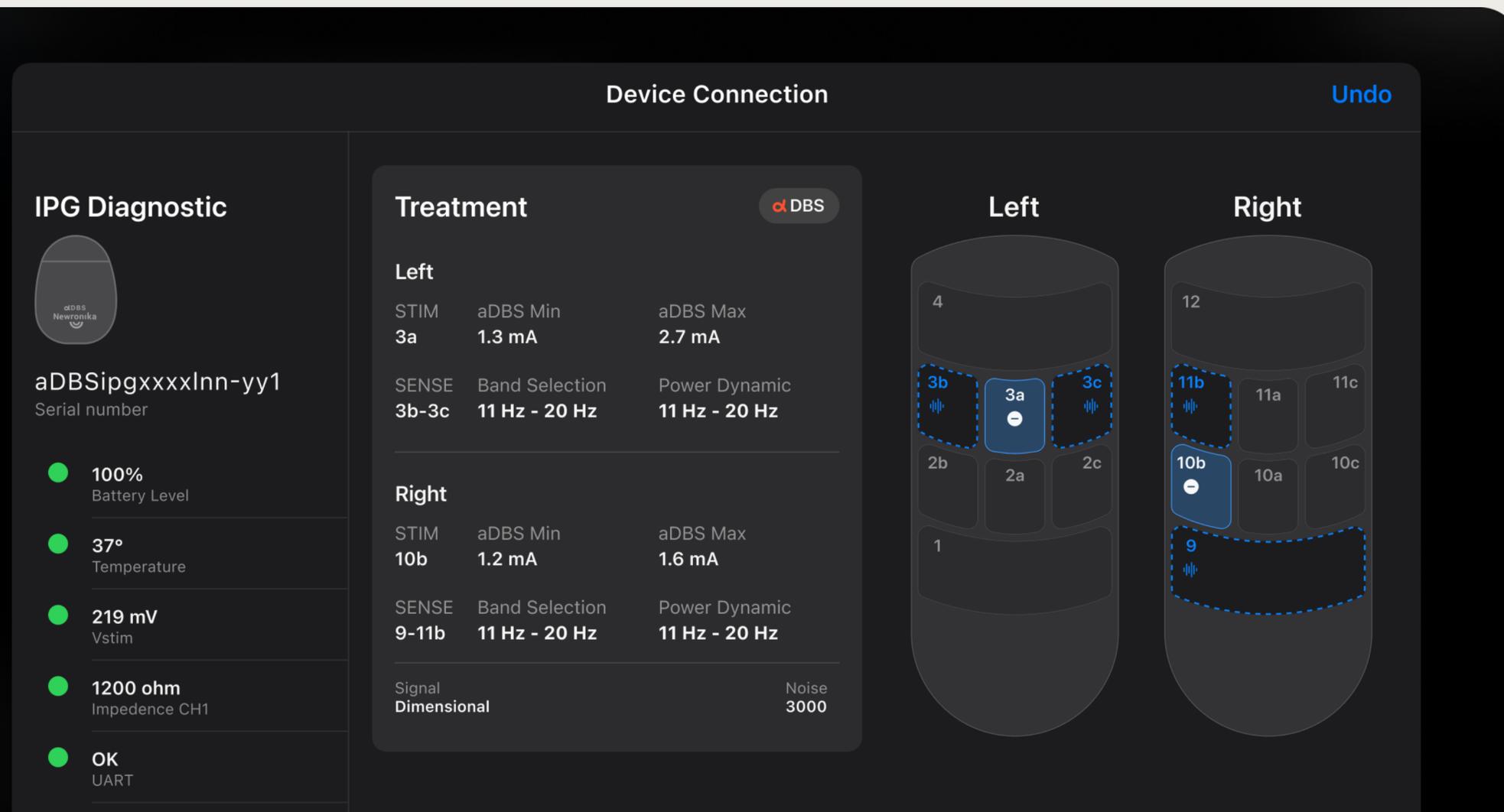
phApp enables the setup and programming of a dedicated treatment for Parkinson's patients

After conducting an initial analysis, we developed a prototype animated interface to obtain the approval of the doctors before proceeding with the actual development. Subsequently, we organised the application architecture into two main modules: one dedicated to communication, in the form of an SDK, and the other focused on the user interface and application logic.

The App is specially designed for iPad mini

It allows the neurosurgeon to make an accurate setup and programming of the patient-specific treatment.

The interface makes it possible to know the status of the device at all times and to store any undesirable effects.



Mate app

The crisis diary you can rely on

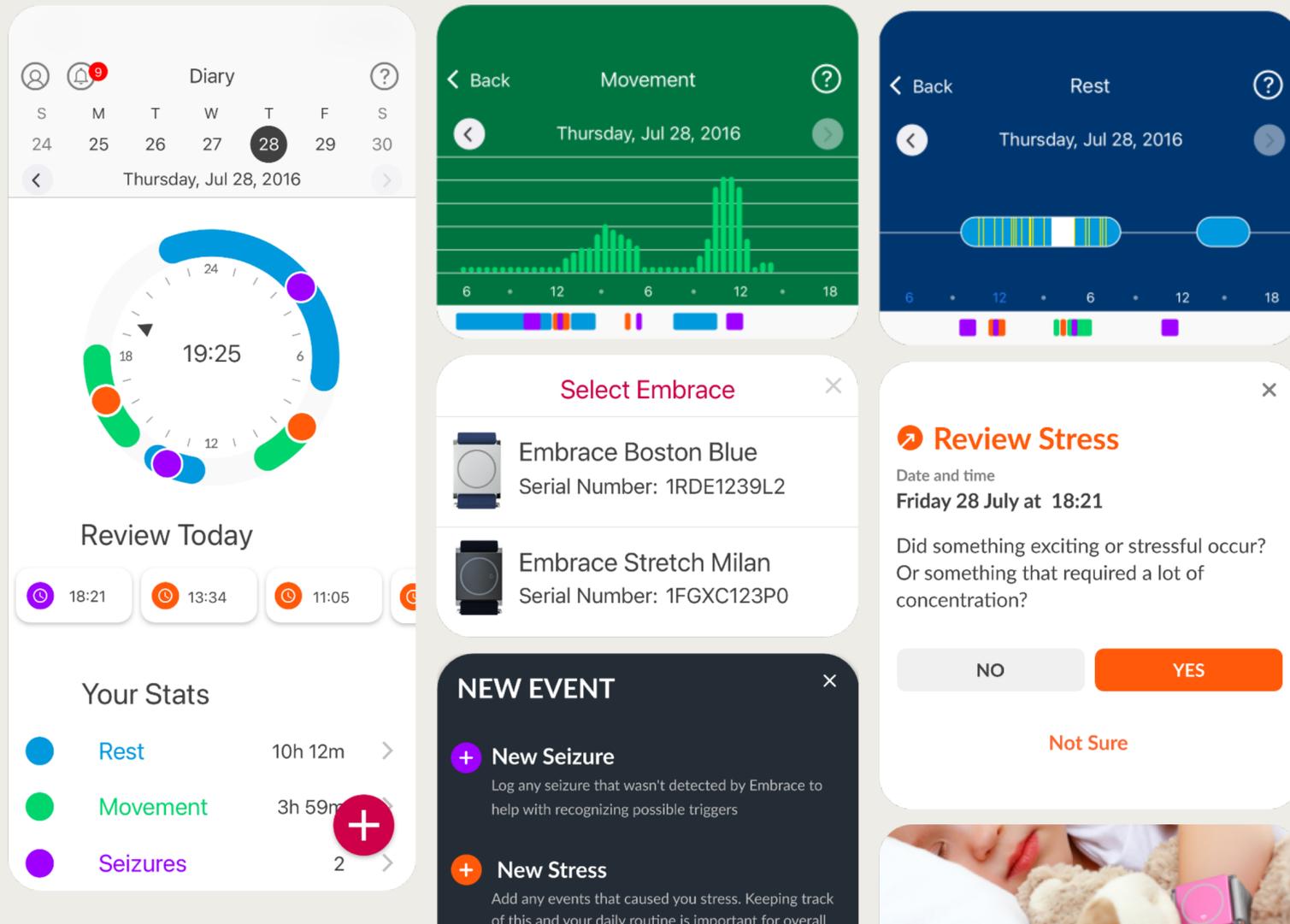
Get a holistic view of your daily routine quickly and check how movement and rest are related to seizure events.

Maintain a detailed and personalized seizure diary.

Never skip a dose of medication.

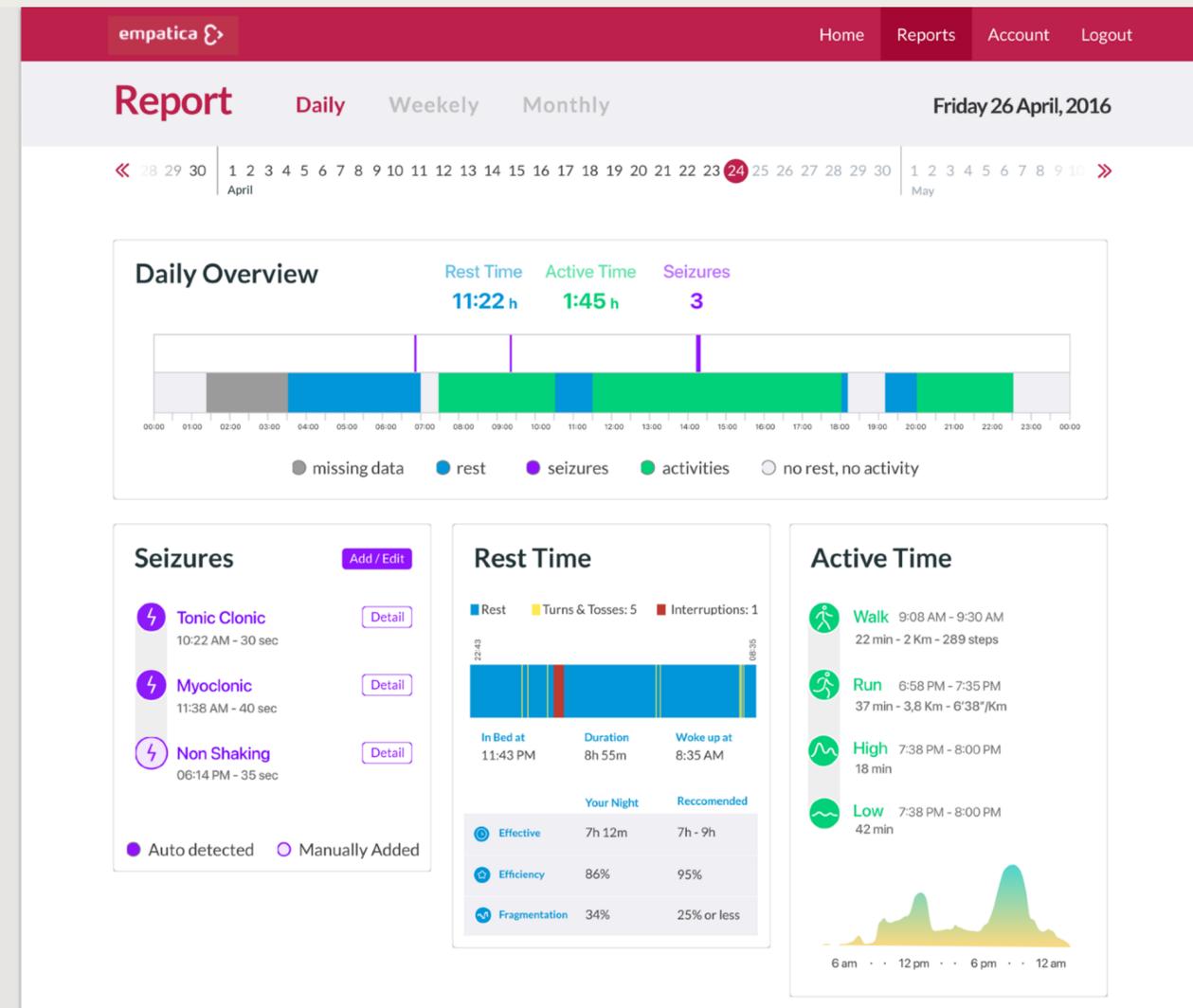
Keep track of how much exercise you get and your sleep-wake cycle.

We worked together with their research team and entered their production cycle. We were responsible for the planning and design of both the mobile app and the web platform for clinical trials. Our task was also to provide mobile development on both platforms, iOS and Android.



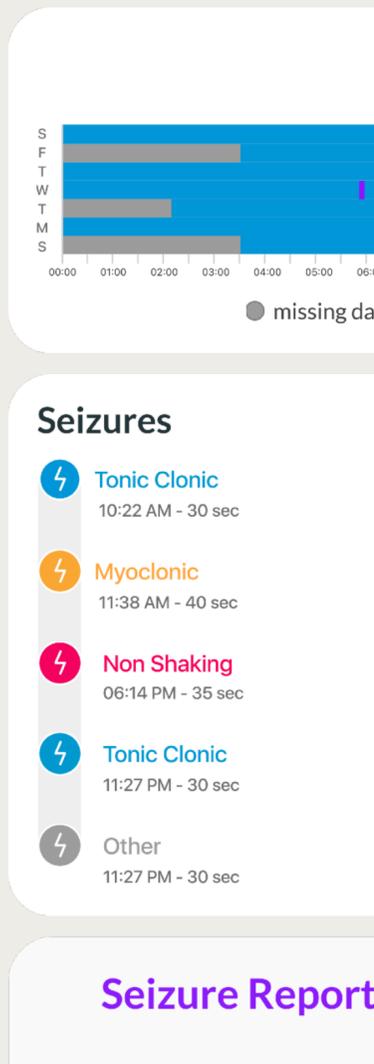
The mobile app interface includes several key screens:

- Diary:** A calendar view for Thursday, Jul 28, 2016, with a circular activity ring showing 19:25 and various activity segments.
- Movement:** A green screen showing a bar chart of movement activity for Thursday, Jul 28, 2016.
- Rest:** A blue screen showing a bar chart of rest activity for Thursday, Jul 28, 2016.
- Select Embrace:** A screen to choose between two Embrace devices: Embrace Boston Blue (Serial Number: 1RDE1239L2) and Embrace Stretch Milan (Serial Number: 1FGXC123P0).
- Review Stress:** A screen asking "Did something exciting or stressful occur? Or something that required a lot of concentration?" with "NO", "YES", and "Not Sure" options.
- Your Stats:** A summary of daily statistics: Rest (10h 12m), Movement (3h 59m), and Seizures (2).
- NEW EVENT:** A dark screen with options to add a "New Seizure" or "New Stress" event.



The web platform interface displays a "Report" for Friday 26 April, 2016, with a navigation bar for Home, Reports, Account, and Logout. The report includes:

- Daily Overview:** A horizontal bar chart showing Rest Time (11:22 h), Active Time (1:45 h), and Seizures (3).
- Seizures:** A list of detected seizures: Tonic Clonic (10:22 AM - 30 sec), Myoclonic (11:38 AM - 40 sec), and Non Shaking (06:14 PM - 35 sec).
- Rest Time:** A detailed bar chart showing rest periods, turns & tosses (5), and interruptions (1). It includes metrics for "Your Night" (Effective: 7h 12m, Efficiency: 86%, Fragmentation: 34%) and "Recommended" (7h - 9h, 95%, 25% or less).
- Active Time:** A list of activities: Walk (9:08 AM - 9:30 AM, 22 min - 2 Km - 289 steps), Run (6:58 PM - 7:35 PM, 37 min - 3,8 Km - 6'38"/Km), High (7:38 PM - 8:00 PM, 18 min), and Low (7:38 PM - 8:00 PM, 42 min).



The mobile app interface shows a list of seizure events and a seizure report:

- Seizures:** A list of seizure events: Tonic Clonic (10:22 AM - 30 sec), Myoclonic (11:38 AM - 40 sec), Non Shaking (06:14 PM - 35 sec), Tonic Clonic (11:27 PM - 30 sec), and Other (11:27 PM - 30 sec).
- Seizure Report:** A section for a detailed seizure report.

Orders module

A labor transformation solution

A flexible and scalable order management system that can be used from iPads in all world markets developed within its global management system.

Thanks to the management skills of our team, we have been able to establish a partnership that has been going on for years, helping and guiding them in the development of a proprietary product that is crucial to their business.

Different product lists, currencies, units of measure and discount models for each country.

Real-time dialogue with the central product database to determine stocks and quantities efficiently.

A huge archive of customers, operators and products to browse through.

Intestazione: **Linee** Riepilogo

Prodotti disponibili 75 | Prodotti aggiunti 5

Intestazione	Linee	Riepilogo
ACEDIUR 12 CPR C.P. 51008L	ADENURIC PACCHETTO PROMO PK000002	ADENURIC PACCHETTO PROMO PK000002
ACEDIUR MITE 12COR C.P. 51009S	ALIFLUS AER.CM DA TRSP.CP 51A871	ALIFLUS AEROSOL 25/50 587DR1
ADENURIC PACCHETTO PROMO PK000002	ADENURIC 120 MG 28 CPR CM 57B985	ADENURIC 120 MG 14 CPR CM 78T841
ADENURIC 80MG 28 CPR CP 519P0A	ESPOSITORE DA BANCO GRANDE 235584	ALIFLUS AEROSOL 25/125 CP 51524E
ALIFLUS AEROSOL 25/50 CP 51524D	ADENURIC 120 MG 14 CPR CM 78T841	ALIFLUS AEROSOL 25/250 CP 51524E
ALIFLUS AEROSOL 25/125 CP 51524E	ALIFLUS AEROSOL 25/50 587DR1	
ALIFLUS AEROSOL 25/250 CP 51524E		

Quantità totale: 0 | Lordo: 0 | Netto: 0 | Sconto % Totale: 0

Quantità	10
Prezzo di listino	8,75 €
Sconto prodotto	10,00 %
Sconto gruppo	0,00 %
Sconto % totale	10,00 %
Sconto merce	0
Sconto complessivo	10,00 %
CIG*	
Importo Lordo	262,50 €
Importo Netto	200,00 €
Prezzo vendita consigliato	9,75 €
Profitto totale	92,50 €
19/12/2019	

Quantità

0

7	8	9
4	5	6
1	2	3
0	,	X

←

Quantità	Quantità venduta	Prezzo di listino	Sconto prodotto	Sconto gruppo	Sconto % totale	Sconto merce
1	1	574,27 €	--	--	--	--
12	12	10,81 €	0,00 %	0,00 %	0,00 %	0

Intestazione

Informazioni generali

Ragione sociale: ANTICA FARM GUASTI DI GIRARDI SAS (P06650)

Partita IVA: 02043740972 | Indirizzo email: test-dev@email.com

Località di spedizione: NN. VIA V. G. MAZZONI, 14 - 59100 - PRATO

Fatturazione: ANTICA FARM GUASTI DI GIRARDI SAS (P06650) VAT 02043740972 | NN. VIA V. G. MAZZONI, 14 - 59100 - PRATO (PO)

Ordine

Tipo di ordine: TO ETICO | Pagamento: RICEVUTA BANCARIA 30 C

Quantità totale: 55 | Lordo: 749,27 € | Netto: 0

e-Clinic app

One software for comprehensive medical record management

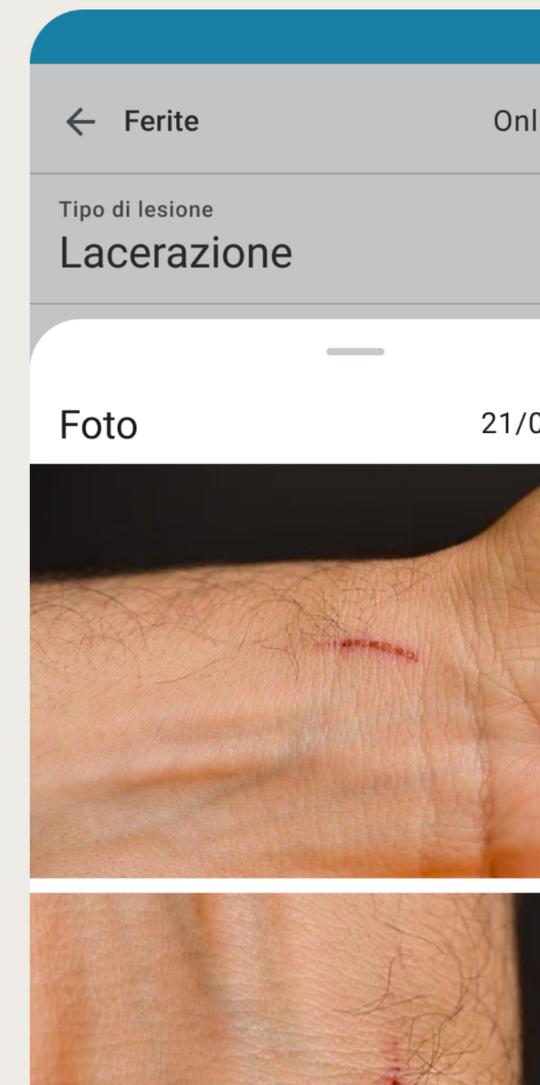
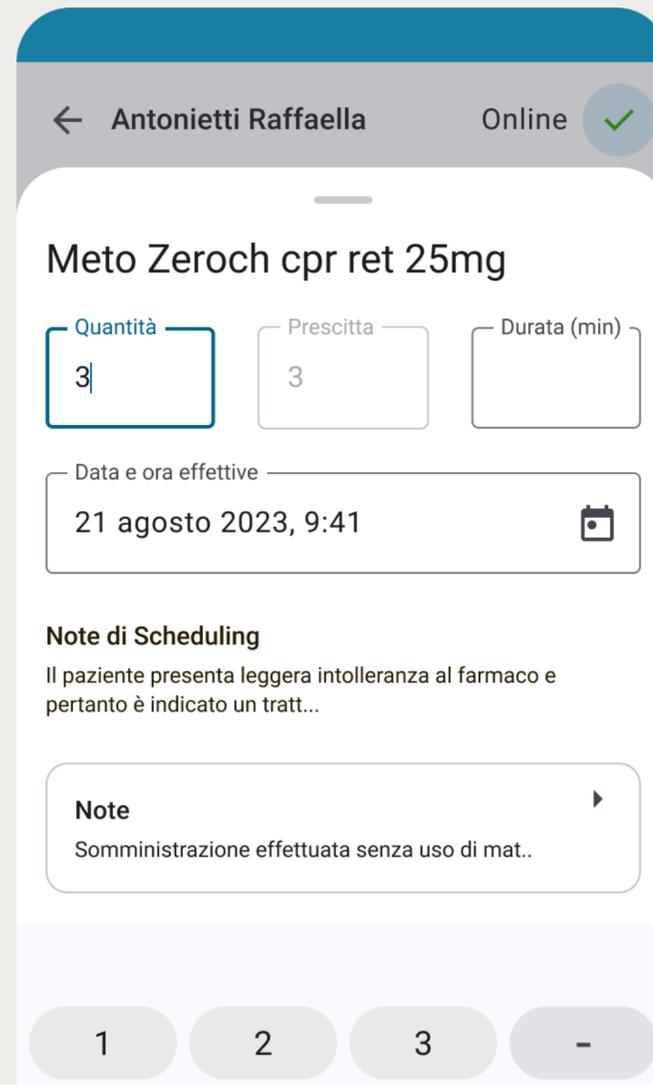
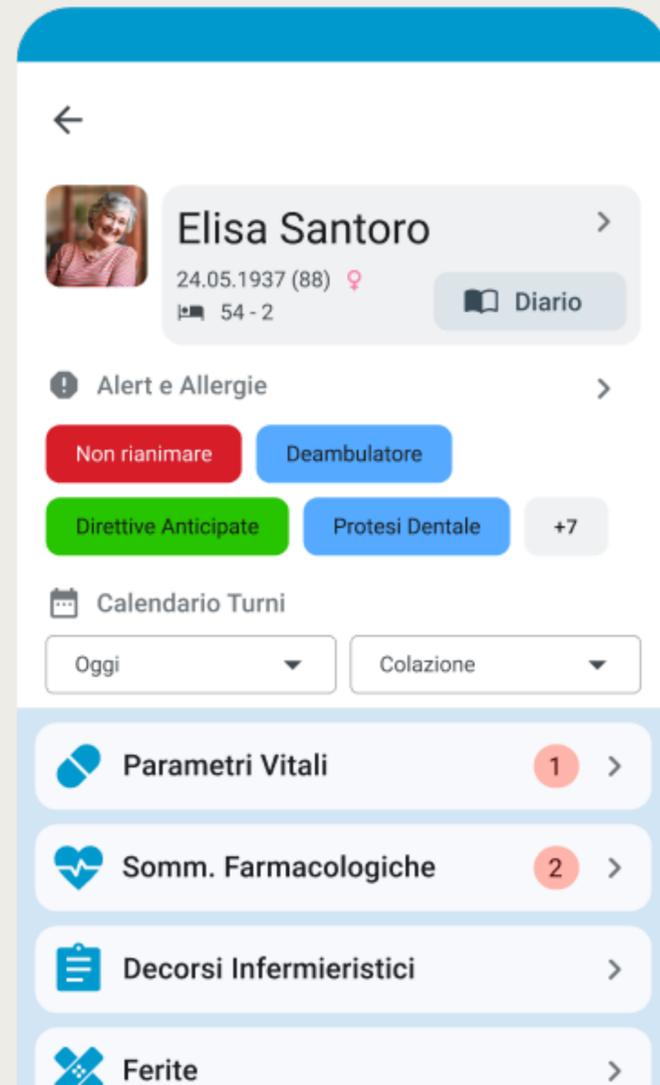
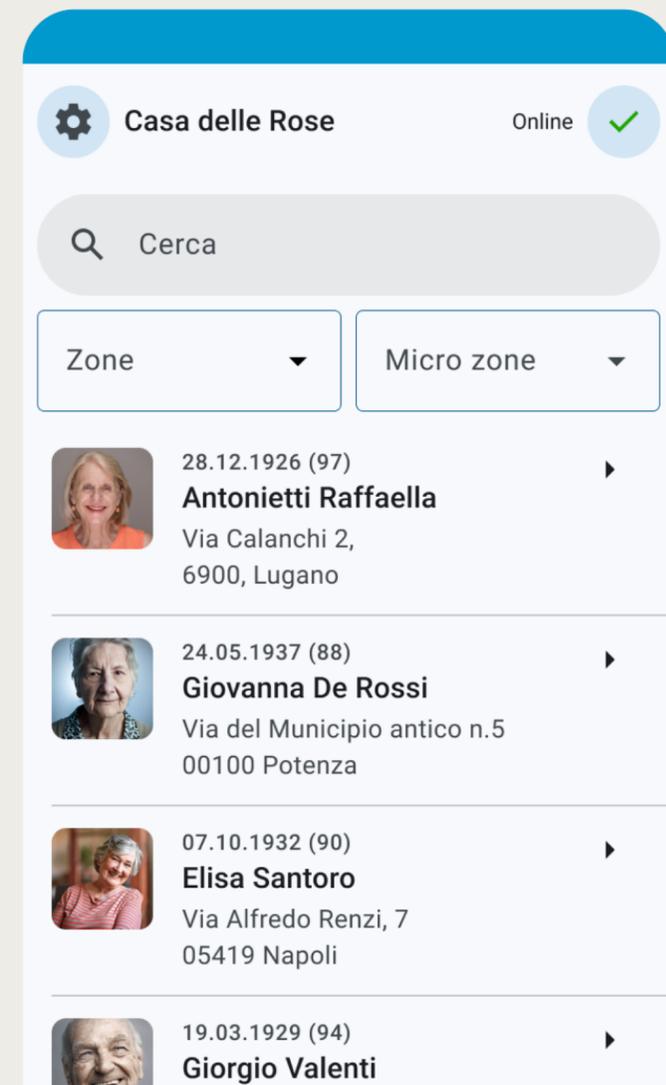
E-Clinic is a comprehensive, secure and reliable software specially designed for managing all processes in a clinic, nursing home or home for the elderly.

The client needed to enable the mobile side of their platform, which was already on the market. To put in the hands of every nurse an app that is simple and immediate to use while working. Among the most relevant aspects was the need to always have persistent and updated data after each nursing shift, always synchronized with the central database.

Collect all patient records in a single database.

Prescribe drug therapies, somatic examinations, and more.

Manage the entire department, including the medical and nursing teams.



My-NRG

An App for users to monitor the trend of measurements

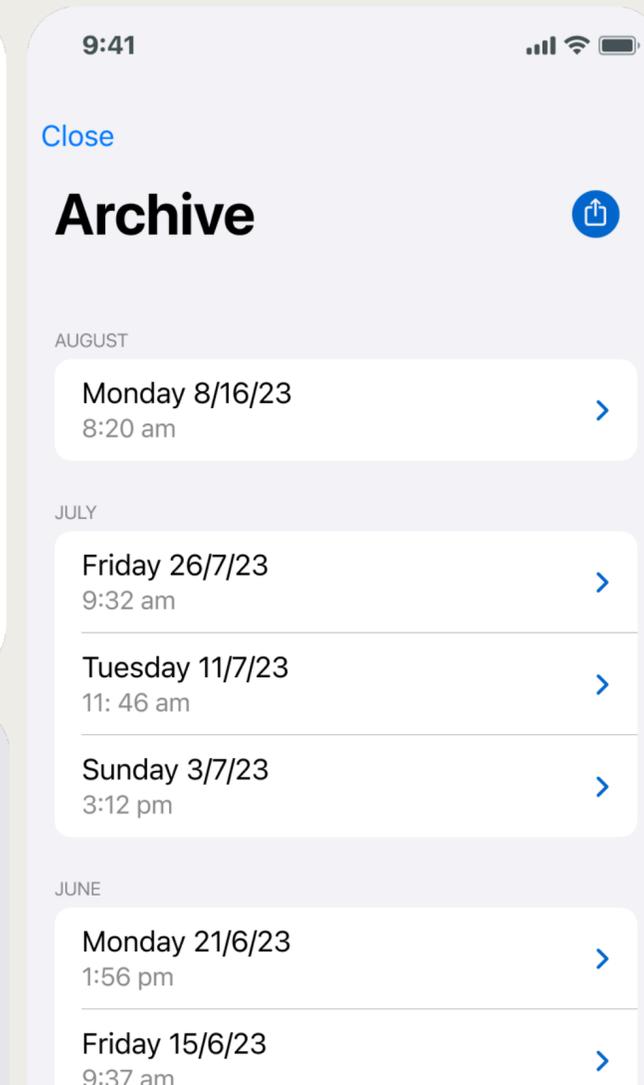
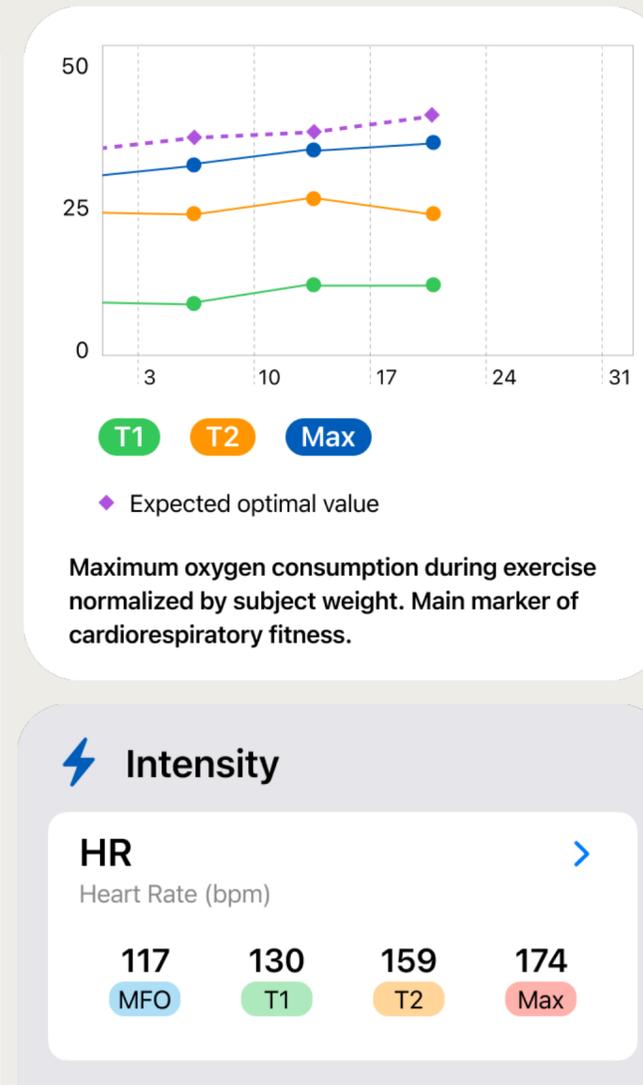
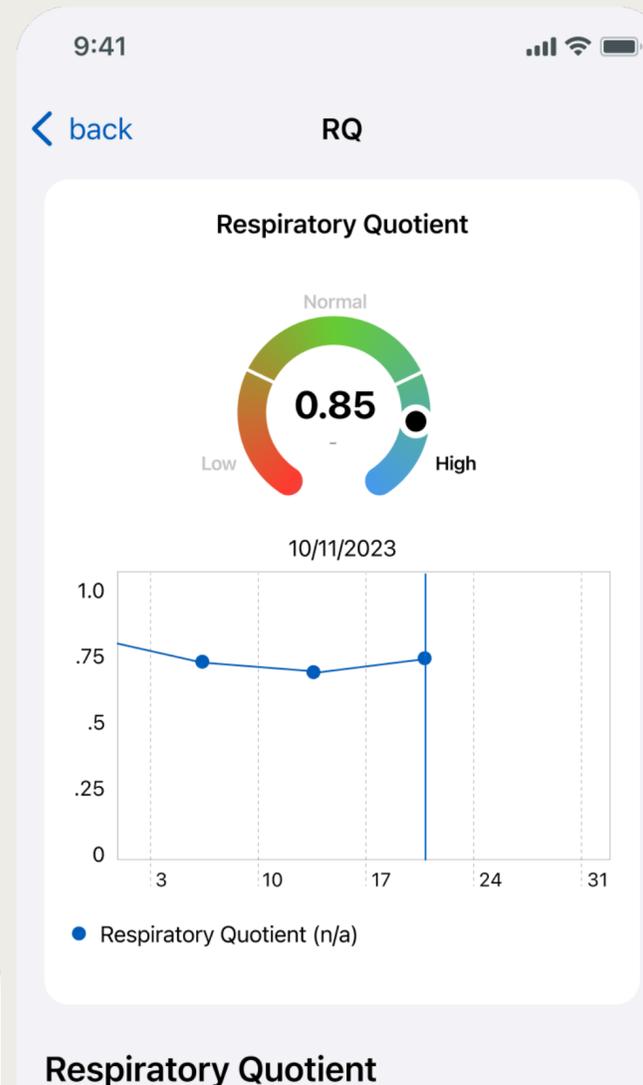
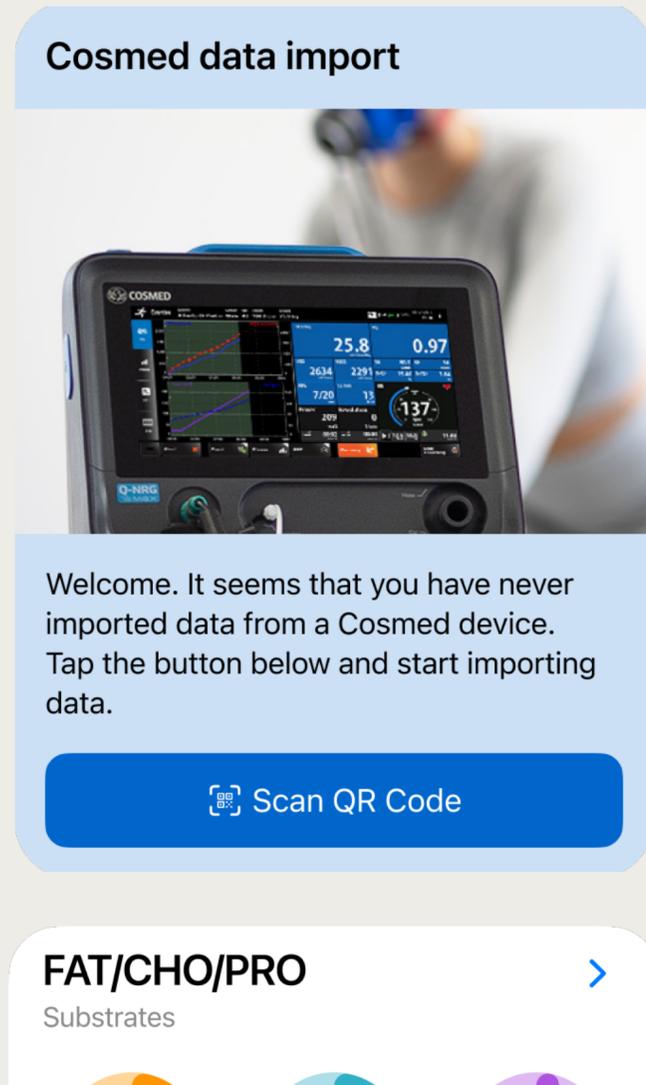
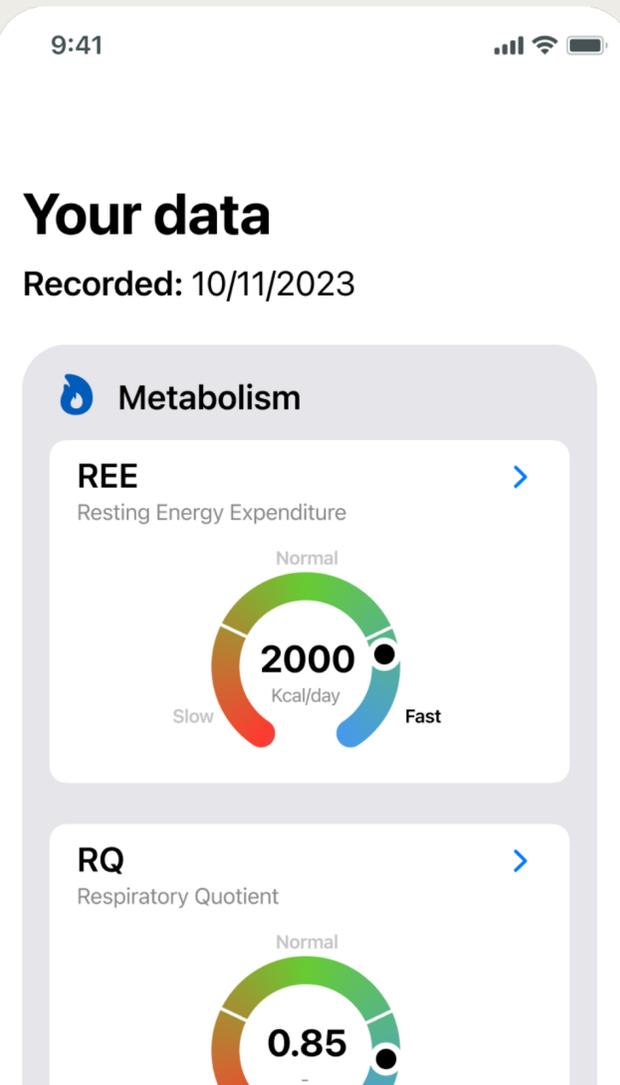
My-NRG is an app designed for Cosmed customers who want to have their measurement results available at all times

We analysed the requirements and proposed a complete mockup to the client before proceeding with the development of the iOS and Android application.

Quick QRCode scanning of measurements

Detailed reports and trends over time

Integrated Apple Health and Google Fit connection and data export to csv



myLink

The app for the patient who can perform guided video exercises

myLink is the app that relies on software for physiotherapists. The patient receives a chrono-programme of the exercises to be performed and gives feedback.

Having completed an analysis phase and defined a customer-approved mockup, we realised the native development for iOS and Android.

User profiling questionnaire

Guided video exercises with feedback

Chat and video call with physiotherapist

Ciao, **Alessandra**

Giovedì 6 aprile

Fase 2

Le tue sequenze

Marco Rossi ha scritto:
Eeguire almeno una volta durante la settimana ognuna delle sequenze. Seguire il programma di ... [Espandi](#)

Stretching per la parte superiore del corpo

Mobilizzazione articolare per le spalle

5 3h 28'

1.5h
1h
0.5h

3/4 4/4 5/4 6/4 7/4 8/4 9/4

Stretching per la parte superiore del corpo

Indietro

7 **30'**

ESERCIZI DURATA

Completato!

Stretching per la parte superiore del corpo

32'

Tempo totale

Personalizza i tuoi esercizi

[Salta](#)

Diario

Settimana Mese

marzo 2023

LUN	MAR	MER	GIO	VEN	SAB	DOM
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14 Oggi	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3

Martedì 14/3

Mobilizzazione articolare per le spalle

27' 13 2 -

Equilibrio e coordinazione

Inserisci il tuo codice per iniziare

Entra

Euleria myLink richiede un codice di ingresso per essere utilizzata. Contatta il tuo professionista per maggiori informazioni.

Breath Assist Clip

Aerosol therapy goes smart

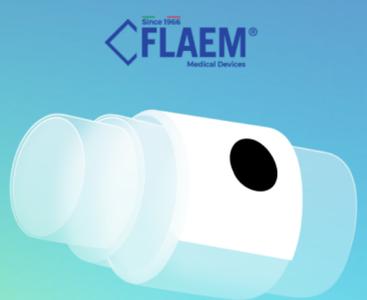
The app that guides you through the aerosol therapy by giving real-time information on how you are performing the treatment.

After a requirements analysis, we produced a mockup of the main parts of the application.

Manage family therapies

Assign each family member the therapy and check the history

Real-time and post-therapy statistics for easy reference



BreathAssist Clip

Innovation and personalised control for a revolutionary aerosol therapy experience

- Smart Connectivity**
Easily manage your respiratory therapy from your smartphone
- Instant Feedback**
Precise sensors give you immediate answers, personalising each therapy
- Design and Support**
Simple design and dedicated app for an

9:41

My Journal

Today, January 10

M T T W F S S

Daily Schedule

- 12.00 Sinuxol
- 16.00 Golasept
- 18.00 Sinuxol

Recorded

- 09.00

9:41

Treatmens

- Marta**
Sinuxol 25 mg
12/11 → 12/12
12:00 - 18:00
- Oliver**
Golasept 2 vials
2/12 → 18/12
09:00 - 16:00

9:41

BreathAssist Clip

CLIP 23476902 87%

Amet minim mollit non deserunt ullamco est sit aliqua dolor do amet sint. Velit officia consequat.

- Marta** Sinuxol 25 mg

Proper use

1. Make sure you load the right drug in the right dose.
2. Sit in a comfortable position that allows you to keep your head straight.
3. Relax and position the mouthpiece / mask.
4. Start the aerosol.
5. Breathe normally.

9:41

Your Session

Marta Sinuxol 25 mg

Date: Mon 08 Jun, 2024

Time: 18:55

Session Time: 3:12

Expected Time: 3:00

Coughing: 2

Breath Score: 85%

Your Breathe Score is determined on the basis of comparing your calibrated and recorded breathing values against those recorded during this session.

Orbita

The smart physio ball with management app

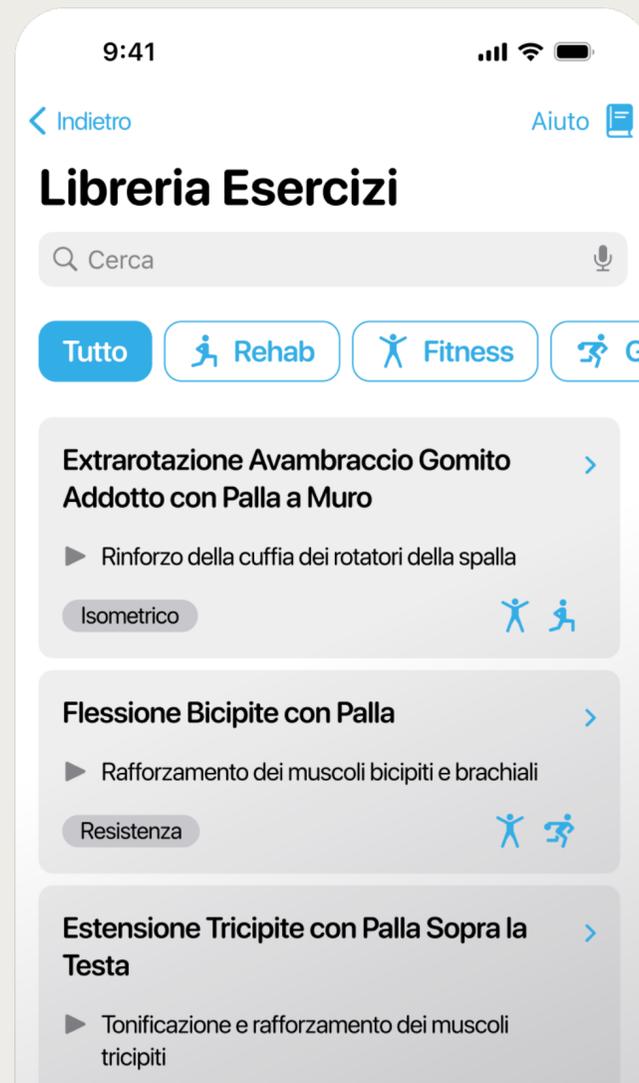
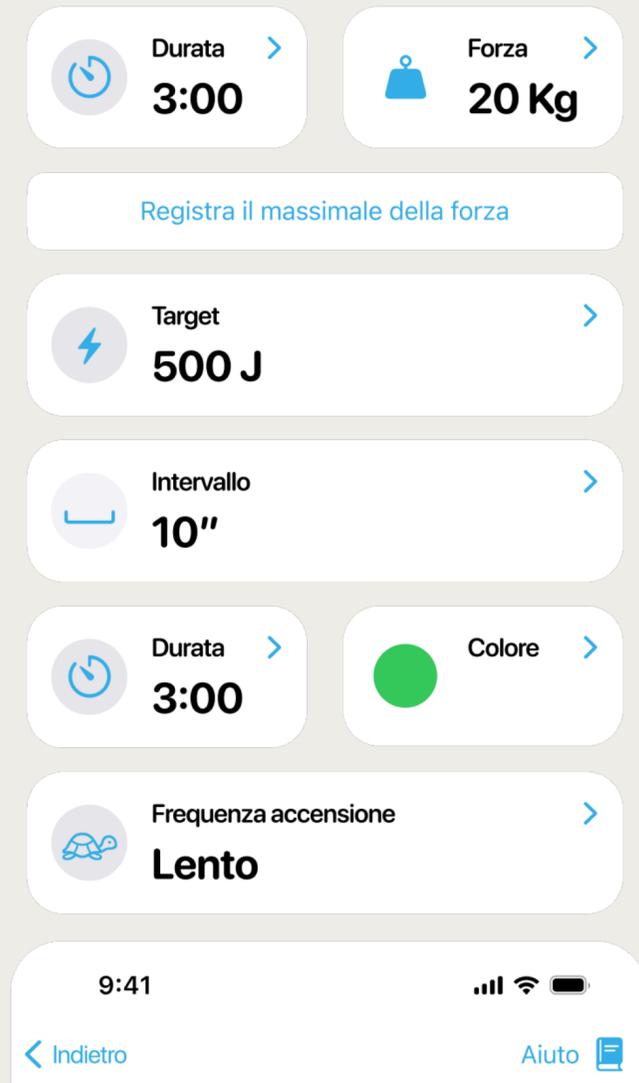
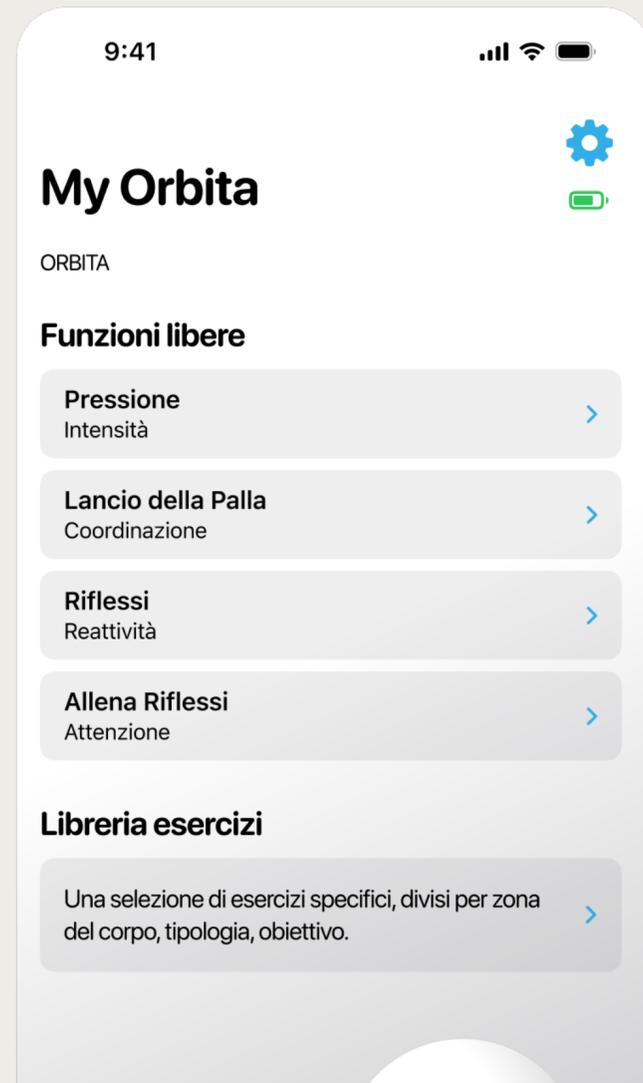
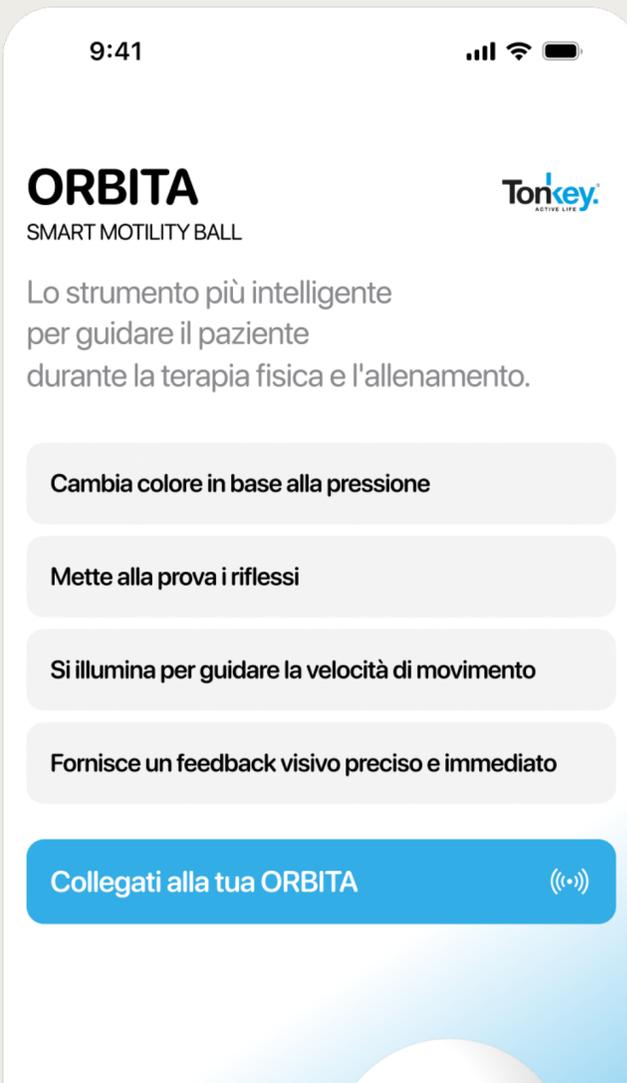
Orbita is the app that controls and monitors the physiotherapy ball for dynamic exercises.

Following a requirements-gathering phase, we described all application flows and produced the final mock-ups

Control and manage one or more Orbita in real time

Library of exercises, setup and calibration

Detailed report of the execution of each exercise session



Silverline

Real-time air and liquid leak tracking in the patient during post-operative care

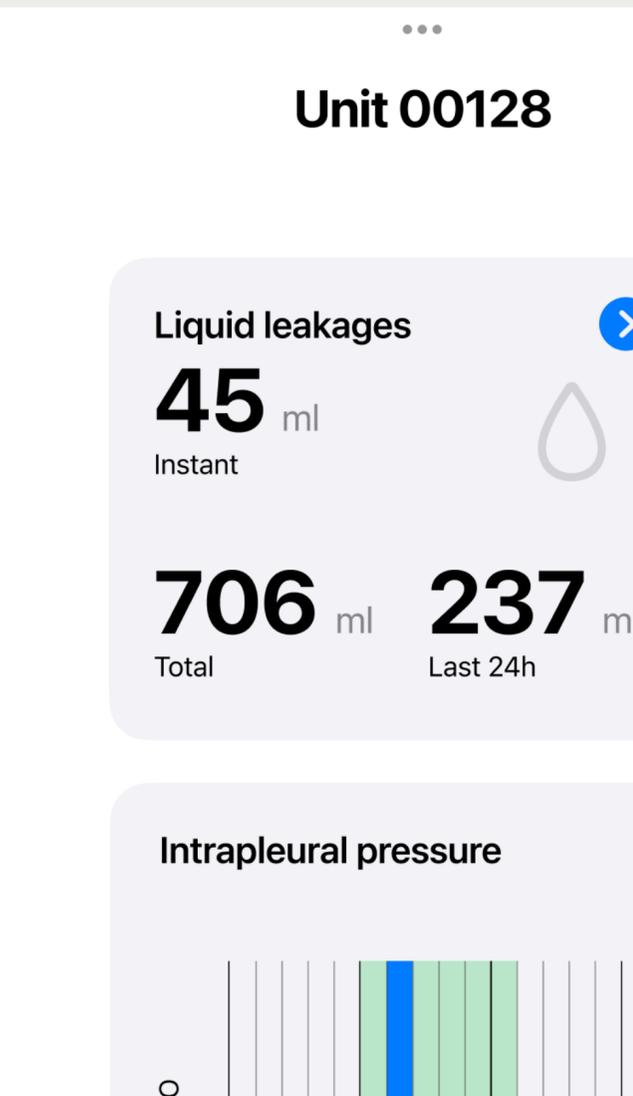
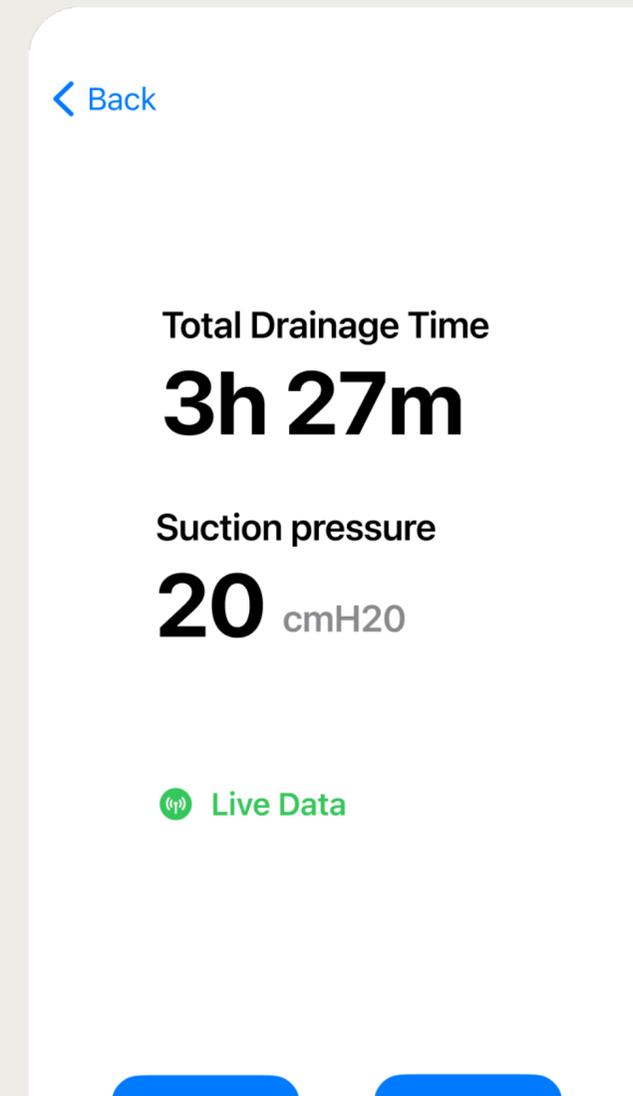
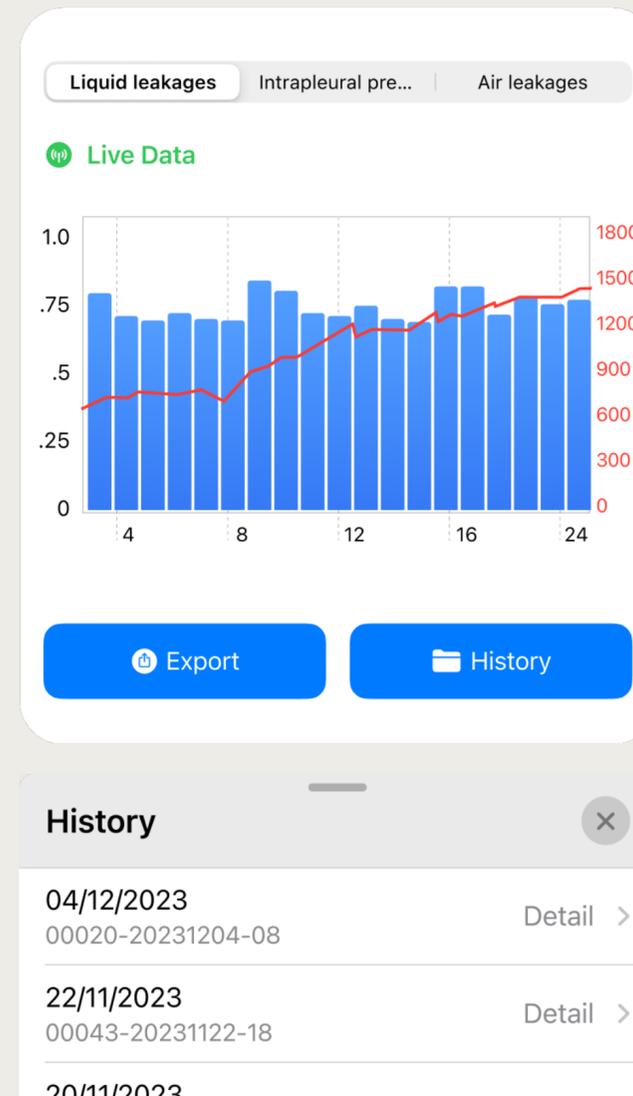
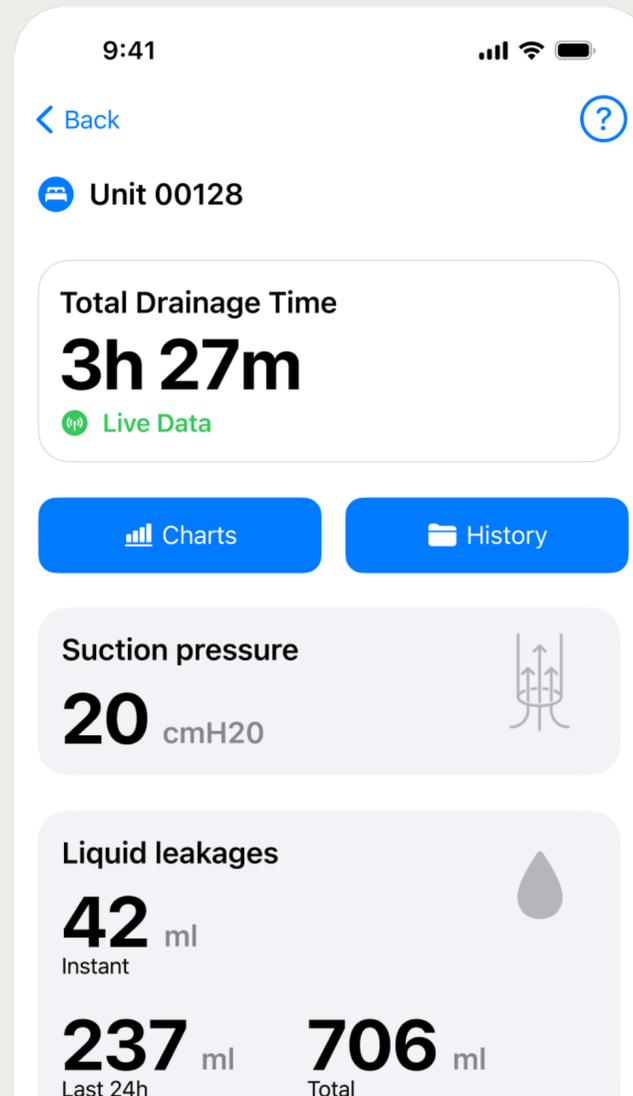
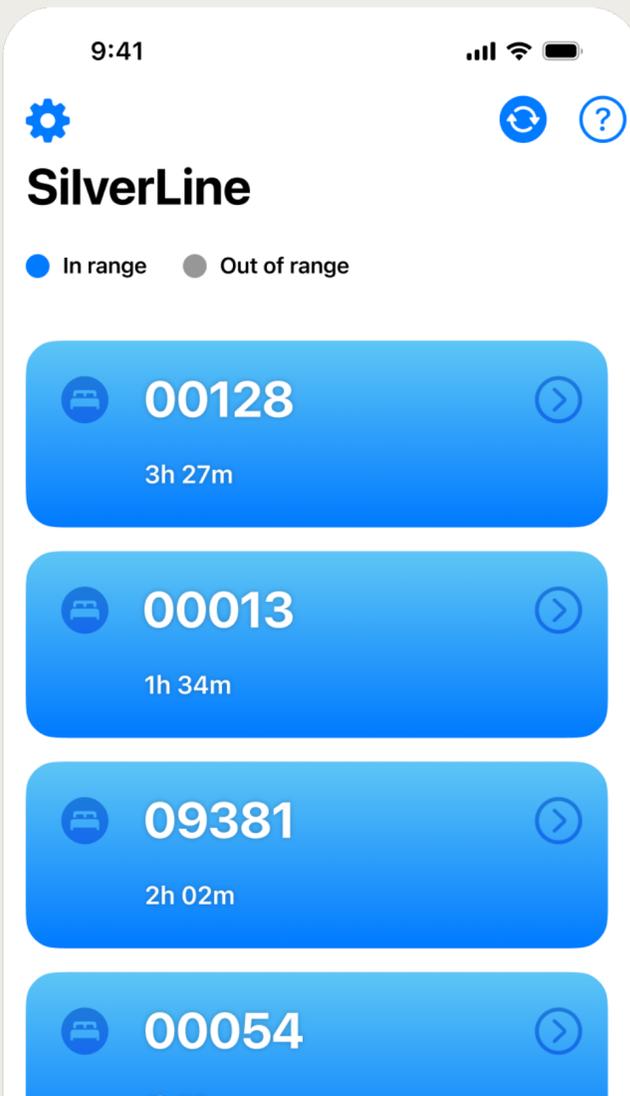
Silverline is the app that reads real-time data from the medical device that monitors the patient's status.

We analysed the device made and proposed a simple and intuitive interface that would allow a quick check of the values

BLE connection to multiple devices

Real-time graphs and information

Export of saved data from each session





Dolcenanna app

Dolcenanna is the first application entirely dedicated to tracking children's sleep. Designed as a simple yet comprehensive tool available to parents and caregivers.

To improve the sleep quality of the whole family, the first step is to understand their sleep patterns during the day and night. Therefore, we have designed and built an application that is simple to use and at the same time useful for the sleep therapist.

Easy tracking of your child's sleep, breastfeeding and meals, crying and more.

Ability to manage more than one child by customizing each profile.

Analyze through weekly graphs the progress of sleep and other activities.

A utility for tracking children's sleep

Elisa 3 mesi 15 settimane

6 4 5 2

Notturmo 5h 25m Diurno 2h 36m

← OGGI, 7 MAGGIO →

- Pasto Tirato - 45ml 12:48
- Pannolino Misto 12:25
- Sonno 1h 23min 10:15
- Allattamento +3

Diario Analisi Profilo

- Sonno
- Allattamento al seno
- Pasto
- Pianto
- Pannolino

Colore

Immagine di copertina Scegli una foto

Immagine di profilo Scegli una foto

Sonno

TEMPO TOTALE 01:26

Si è svegliata

Orario di inizio 09:41

Panoramica ESPORTA QUESTO GRAFICO

00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00 24:00

Mer 12/6 Gio 13/6 Ven 14/6 Sab 15/6 Dom 16/6 Lun 17/6 Mar 18/6

12 - 18 dicembre 2022 PERIODO

Dettaglio MEDIA AL GIORNO

- Sonno 7h 32m >
- Allattamento 6 >
- Pianti 7 >
- Pasti 11 >

12 - 18 giugno 2022

Sonno MEDIA AL GIORNO

Totale 7h 32m

Notturmo 5h 12m

Diurno 2h 20m

8h 11m 10h 18m 4h 31m 5h 26m 8h 56m 3h 56m 6h 48m

Nov 3 Nov 4 Nov 5 Nov 6 Nov 7 Nov 8 Nov 3

Sonno diurno Sonno notturno

Elisa 8 mesi 15 settimane

Sto allattando 2 3

Notturmo 6h 58m Diurno 1h 43m

Elisa 7 Marzo 2022

AGGIUNGI NUOVO

- Pasto
- Cibi solidi
- Allatt. con Formula
- Latte estratto

Salva

12 - 18 giugno 2022

Pannolini

Totali

Pipi

Pupù

Misto

6 8 4

Nov 3 Nov 4 Nov 5

Pipi Misto

Collabobeat

The app for messaging your patients

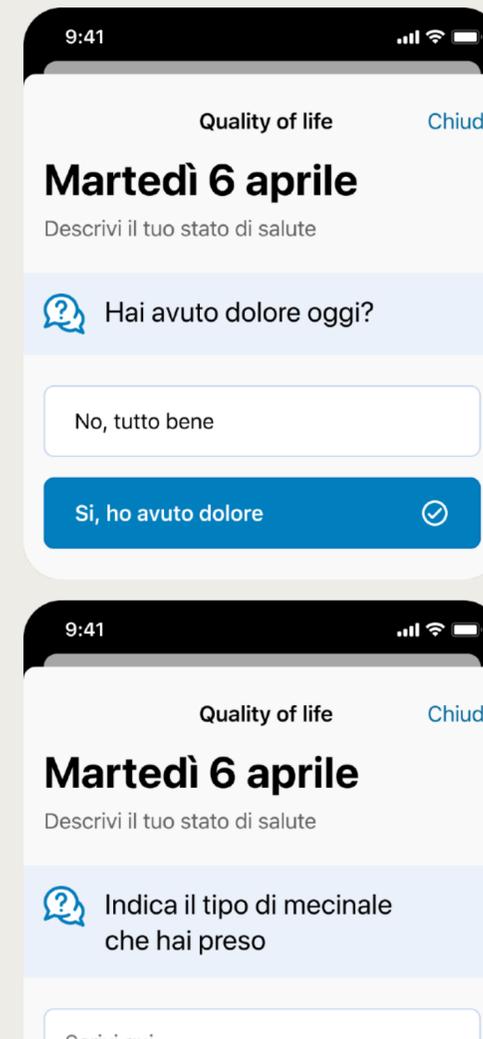
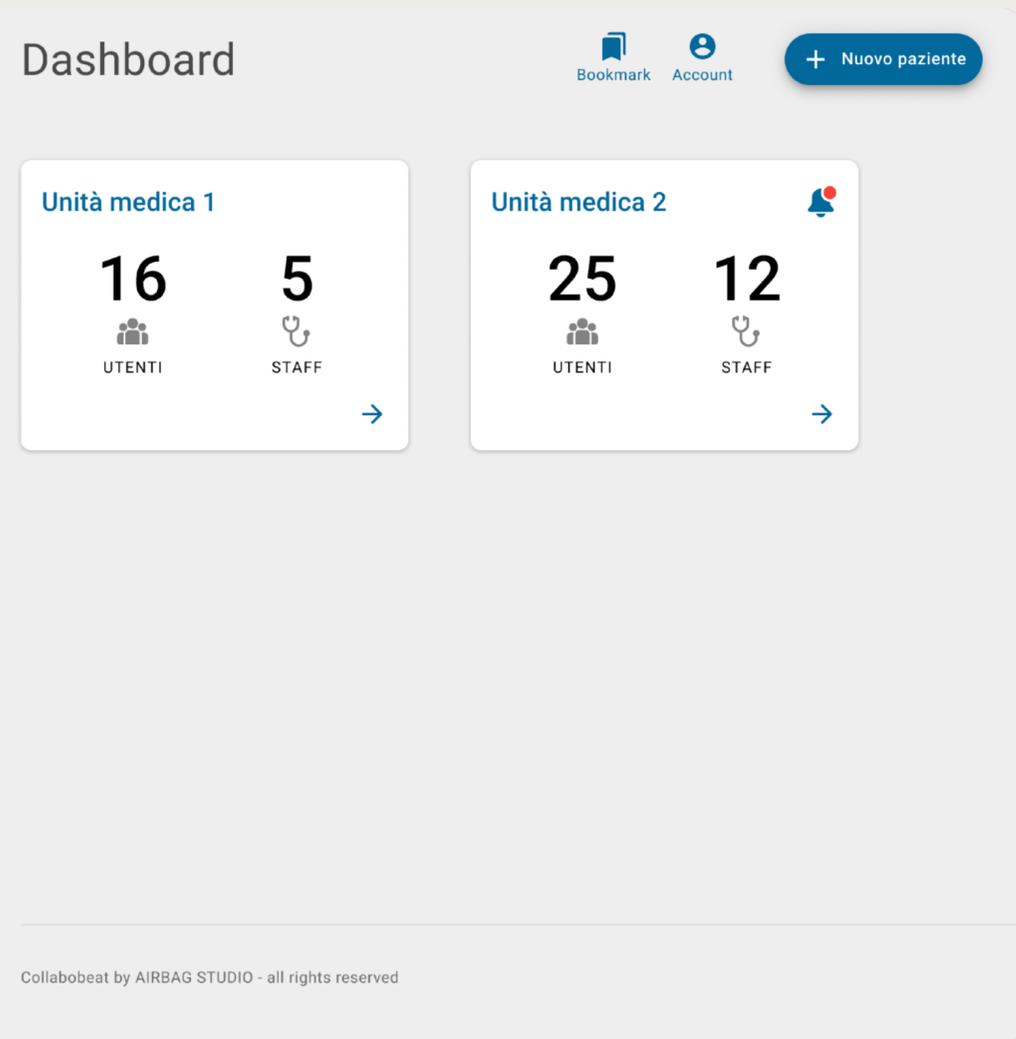
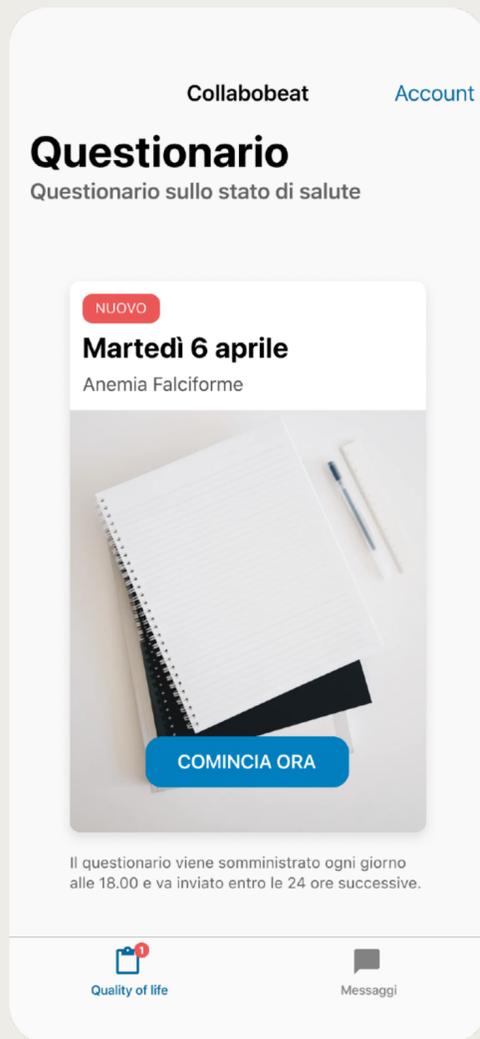
Collabobeat is a patient-medical team communication platform designed on the needs of medical teams.

Collabobeat is just like a doctor's office: it helps medical staff plan requests, address feedback, and take back control of the entire communication process. The patient, on the other hand, has a mobile app just like Whatsapp: a direct line to their doctors to get all the answers they need.

An asymmetric communication system for greater physician control.

Manage different physician and patient units simultaneously.

Administer periodic quality-of-life status questionnaires to patients.





Leading digital health transformation

We have developed wide-ranging experience in digital health, and today we meet the needs of major players in the field: pharmaceutical companies, physicians, patients, associations, and industry executives.

We notice how technology is changing the approach to medicine, and we feel we want to be part of this change by working alongside companies in the industry, helping them build an efficient digital ecosystem that puts patient care and attention at the center, while properly using the data and tools we have available today.



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