

INDUSTRIAL DESIGN
PORTFOLIO

JESSICA YUE CHE
ARTCENTER COLLEGE OF DESIGN



ABOUT ME

Hello, I am Jessica Yue Che from China and currently based on Pasadena, California. I am an enthusiastic Industrial Designer currently pursuing my education at the esteemed ArtCenter College of Design. Guided by a design philosophy rooted in inclusivity and human-centric solutions, my goal is to not only enhance people's lives but also to capture and celebrate the inherent beauty in the world through my creations.

CATEGORY

01

GroWe

GroWe is an indoor gardening kit that allows children to learn responsibility and build confidence through growing fruit and vegetables.

02

Hyper Air

Make CPAP treatment seamlessly integrate into athletes' lives to enhance recovery, repositioning it as a transformative self-care tool, not just a medical device.

03

Suite 1313

Suite 1313 offers unique beers, each representing characters facing challenges like environmental degradation and societal inequality.

04

Furever

Furever is a thoughtfully crafted welcome home kit for first-time dog adopters, ensuring a seamless transition from shelter to forever home.

CATEGORY

05

Pearl

Pearl is a series of skin care products designed for mothers and their new born babies.

06

Visual Wave

Visual Wave is an innovative echo show that displays photos to relive memories and plays music to create the perfect ambiance.

GroWe

GroWe is an indoor gardening kit that teaches children responsibility and builds confidence. By cultivating their own fruits and vegetables, children learn to care for plants and see the direct results of their efforts, fostering a sense of ownership and pride.

In addition to responsibility, GroWe instills a sense of accomplishment and boosts self-belief as children watch their plants grow from seed to harvest. The process requires patience and diligence, teaching valuable life skills and promoting a deeper appreciation for nature and healthy eating habits.

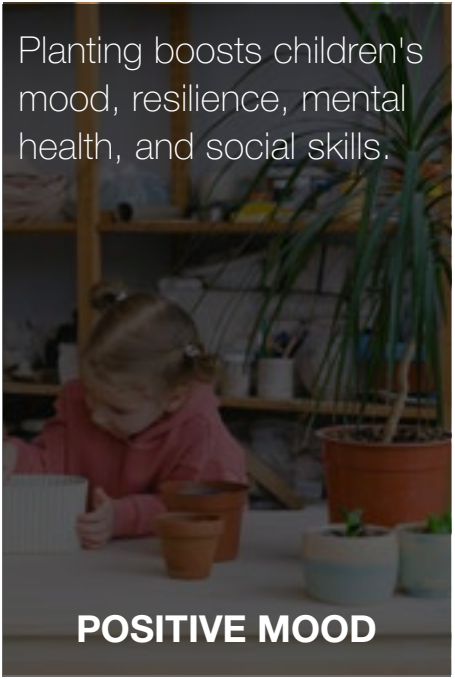
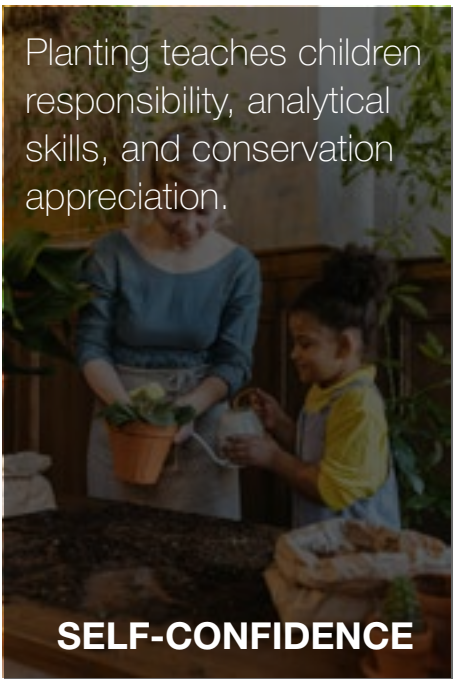


RESEARCH

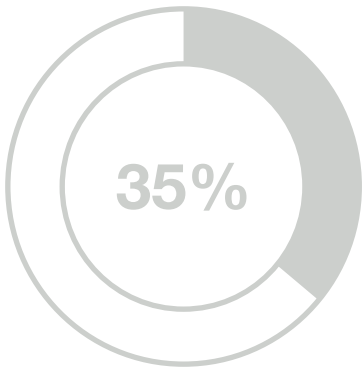
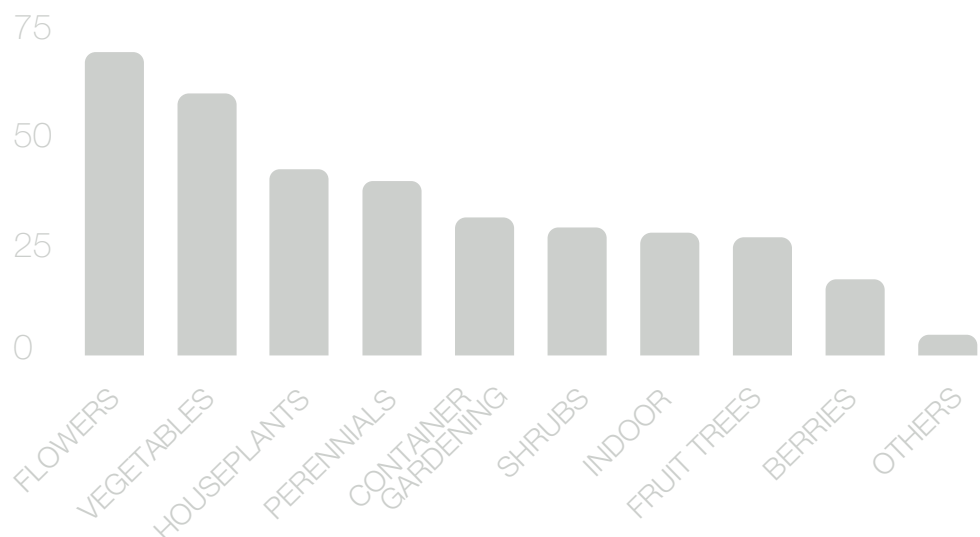
Problems

- Watering plants: when, how much (especially for new starters)
- Persistence
- Sickness
- Need for instruction

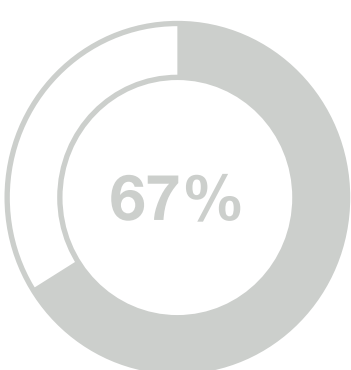
What Can Planting Bring To Children?



- Children are more willing to eat vegetables that they grow.



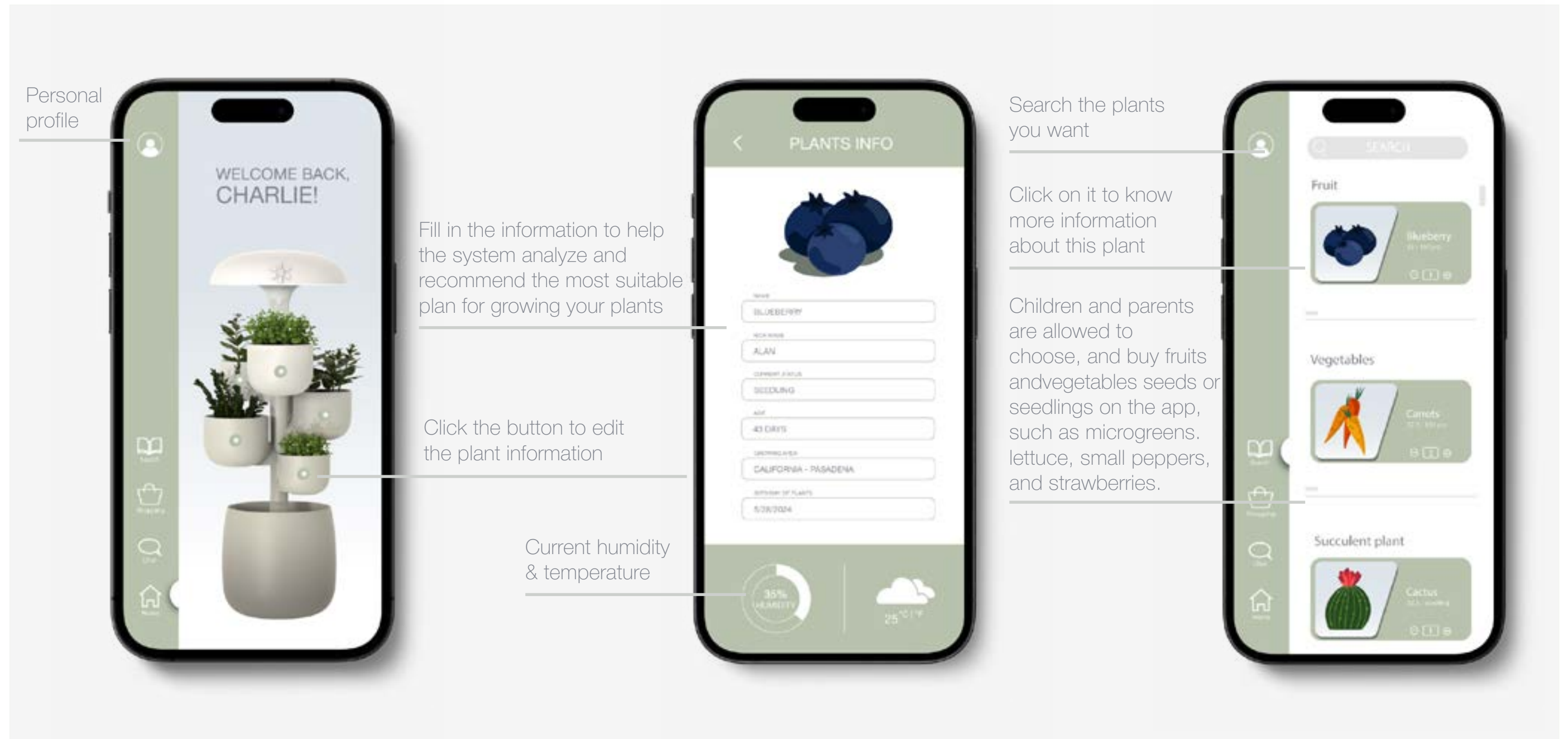
35% of US households grow vegetables, fruits, and other food.



67% of adults are growing or planning to grow edible plants, including vegetables (53%), herbs (33%), and fruits (31%).

APP DEVELOPEMENT

Start your planting journey from growe!



APP DEVELOPEMENT

Start your planting journey from growe!



A list of plants you are growing

Fun facts and introduction of the plants

Current humidity & temperature



The system will remind users of their plants' specific requirements

Plants are your quiet but reliable friends; feel free to text them





There are five different icons: humidity, sunlight, nutrition, cold, and heat, each representing a specific need of your plants. For example, if the soil becomes too dry, the humidity icon will light up, and the system will send a reminder to your app.



After children water the plants, the excess water will leak out through the gap in those flowerpots, go through the passage in the pillar, and will be stored in the drawer, which should be cleaned up frequently.

The battery of GroWe is on the top, this height is easy for adults to operate but little children cannot reach it.





HYPER AIR

Reimage the CPAP treatment

Make CPAP treatment more than good enough and enable it to naturally integrate into an athlete's everyday life to fully support their recovery process.

Reposition CPAP as not only a medical device, but as a transformative self care and recovery tool.

* This design was bought by ResMed



RESEARCH

What is Sleep Apnea?

Sleep apnea is a sleep disorder characterized by repeated interruptions in breathing during sleep. These interruptions can cause poor sleep quality and lead to daytime fatigue and other health issues. The most common types are obstructive sleep apnea, where the airway is blocked, and central sleep apnea, where the brain fails to signal the muscles to breathe.

4X More likely to develop Sleep Apnea due to training

Why Is Sleep Important For Athletes?

- Resting your heart allows cells and tissues to repair, aiding recovery after exertion. As you sleep, changes in heart rate and breathing promote cardiovascular health.
- Sleep helps prevent illness and aids recovery by producing cytokines, hormones that boost the immune system.
- Sleep consolidates memories, enhances cognitive function, and boosts athletic performance. It also improves mood, prevents irritability, and supports mental health.

How hard do athletes **play**?
How hard do athletes **work**?
How hard do athletes **rest**?





HYPER AIR

Sleek and Subtle Form & Simplified Design

Designed to be carried around. Subtle in nature, bold in performance.

Wider Comfort Band

Maximizing stability and breathability.

Biometric Sensor

Closely monitoring your biometric index to provide peak recovery information.

Easy Adjustment

Wider side strap to accommodate for more surface area.
Simple loop strap design with velcro adherence, easy to adjust the tightness.

Universal Tube

Compatible with current ResMed Air mini nasal tube. Press on the clip to take it off

AIR FLEX

Recovery On-the-Go

Strap release and Design provides access to better sleep, anywhere you go.

Easy to Refill

Window opening on the side indicates water level..

A Full Night's Rest

To refill the tank, just slide open the lid on top, fill up with distilled water and slide close the lid.

Charging Dock

Portable console docks into main housing to charge portable battery.

Small and Mighty

Modular Design provides access to better sleep, anywhere you go.

Portable Console

Slide open with strap, easy to access.

Nap Friendly

Many athletes habitually take naps to replenish their immense energy reserves. This compact and portable design enables them to carry the CPAP machine with ease.

AIR FLEX



HYPER AIR



CUSTOMIZATION

myAIR RECOVERY



Recovery Score

Heart Rate Variability (HRV)
Sleep Debt
Body Temperature

How much should I train today?

Learns your routine to determine “Peak Recovery Timeline”

CUSTOMIZATION

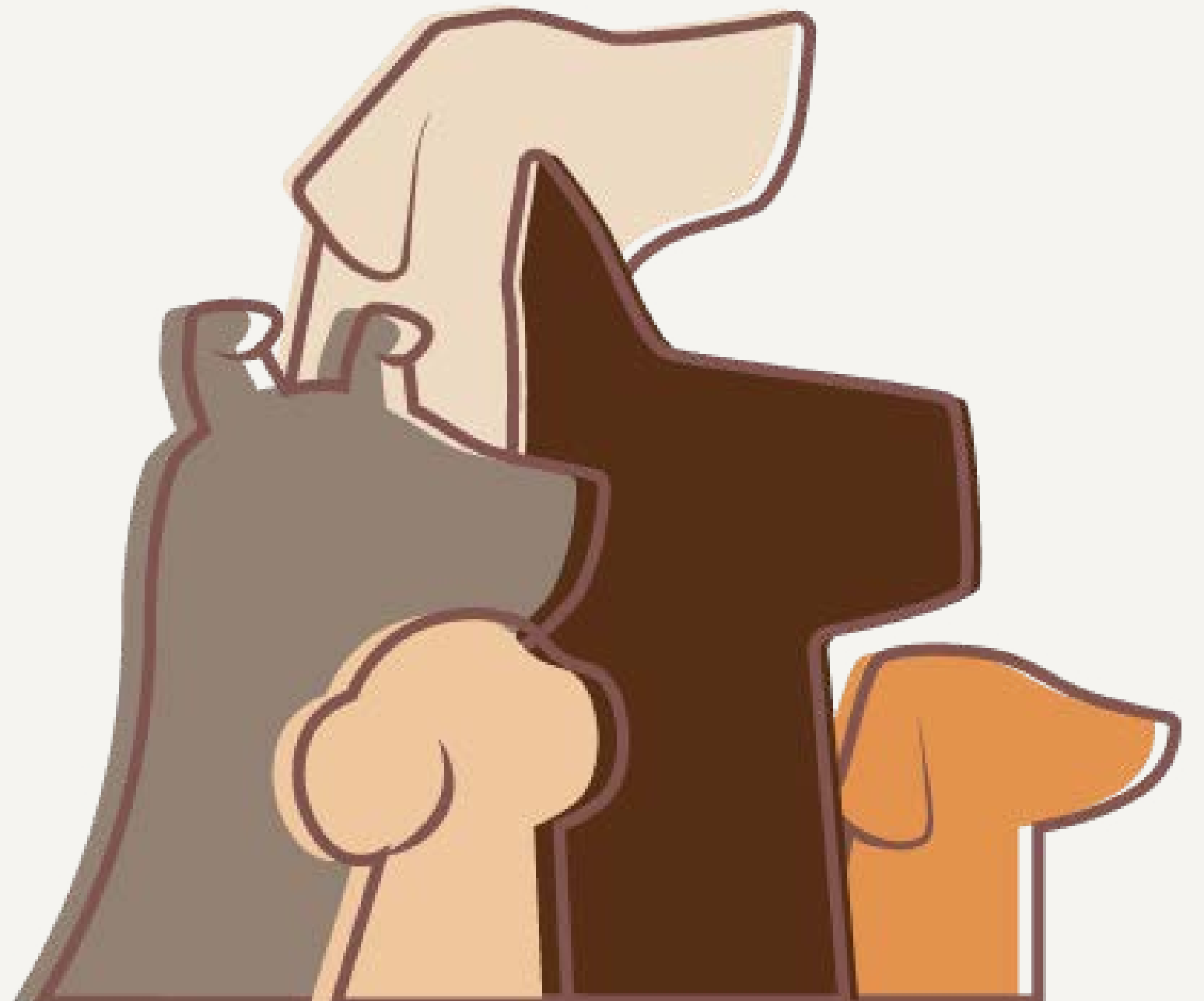
Maximize efficiency
Minimize waste
Ultimate comfort



FUREVER

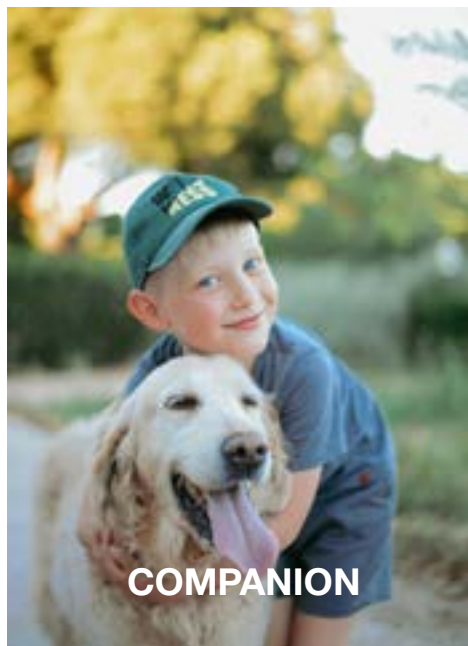
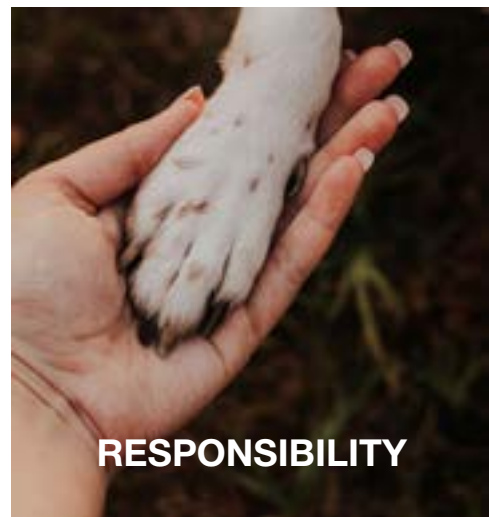
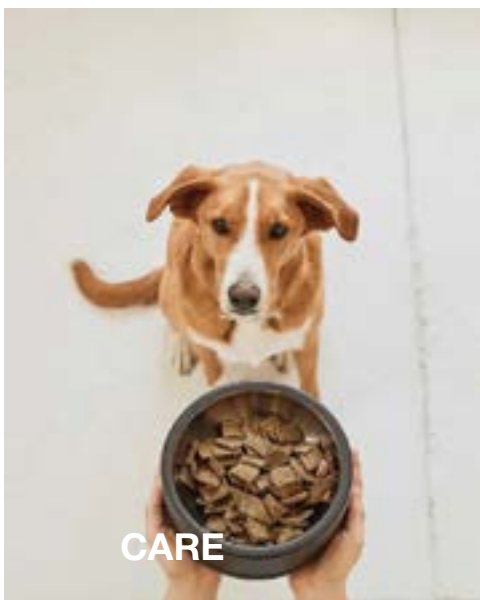
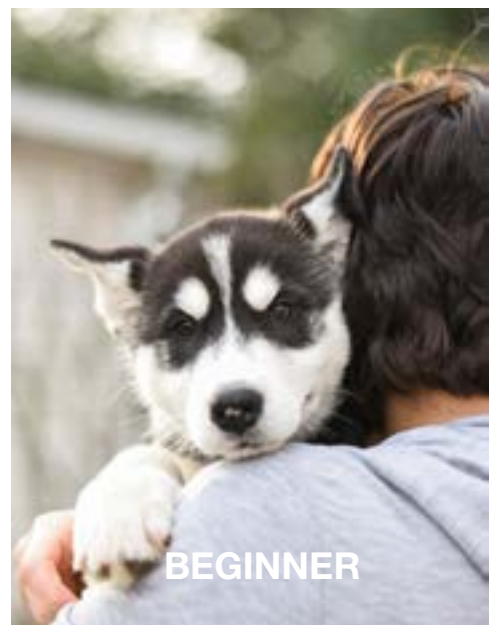
Furever is a welcome home kit thoughtfully crafted for first-time adopters of dogs from animal sanctuaries.

Furever ensures a seamless transition from shelter to home, hoping to give every furry friend their forever destination.



RESEARCH

Keywords



6.3 Million

companion animals enter U.S. animal shelters nationwide every year. Approximately 4.1 million shelter animals are adopted each year

380,000

dogs and cats were killed in our nation's shelters just because they didn't have safe places to call home in 2023.

WHAT CAN HAPPEN TO AN ABANDONED DOG?

According to Salon writer Matthew Rozsa, abandoning dogs can leave them with **lifelong emotional trauma**, and even **PTSD**.

Also, if a dog was abandoned or dropped off at a shelter, this could definitely cause them to feel **separation anxiety**. A dog with separation anxiety transfers their fear of abandonment to all humans.

HOW TO COMFORT THEM

Scent Therapy

Dogs love to snuffle. Lavender oil could not only calm a nervous and agitated dog, but also help them sleep better - and can even cheer up a depressed pet.

CONTENTS

Aromatherapy Diffuser

Dogs love to snuffle. Lavender oil could not only calm a nervous and agitated dog, but also help them sleep better - and can even cheer up a depressed pet.



Treats

This box of treats includes six different flavors: peanut butter, beef, salmon, chicken, bacon, and cheese. The names of the flavors are printed on the bottom of the tray, adding an element of surprise similar to opening a blind box. Additionally, the tray holding the treats is edible.



Toy

Foster connections between dogs and people through engaging interactions.

Tracking Tag

Every year, a significant number of dogs go missing. To help prevent this, our tracking tag connects to an app that shows the dog's current location. Additionally, the app can send out alerts about missing dogs.





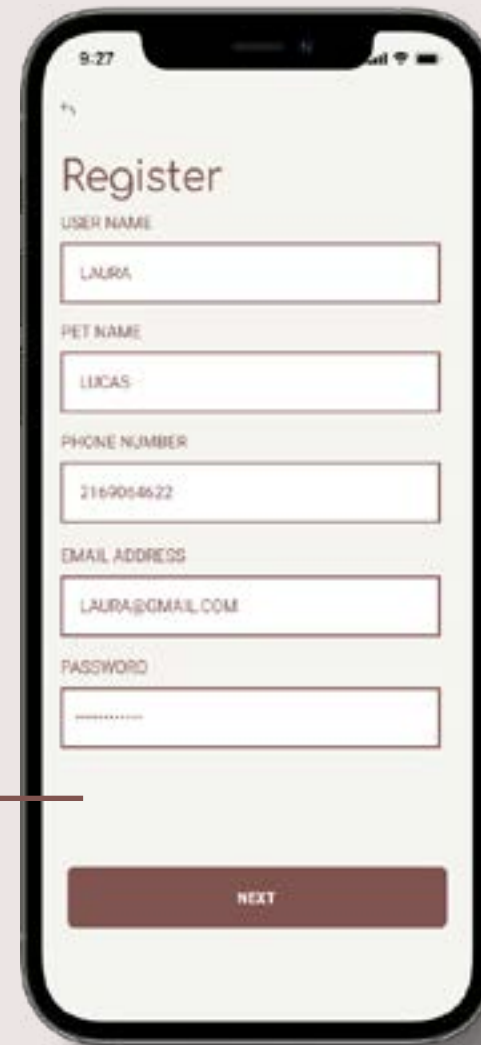
APP DEVELOPEMENT

Connect with fellow pet owners and their furry companions today!



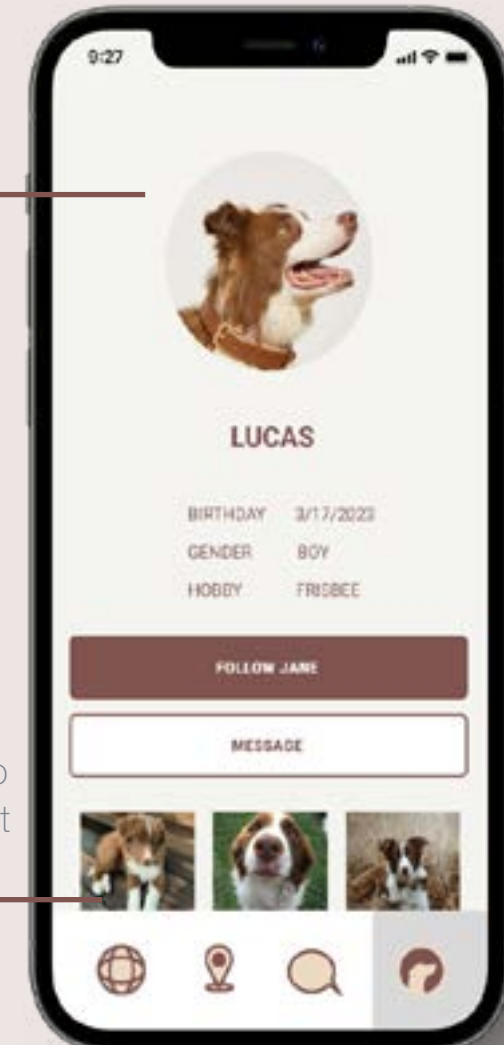
Join Furever for access to pet hospitals, insurance, and training schools. connect with fellow pet owners and their furry companions today!

Sign in with your and your pet's info.



Profile of your dog

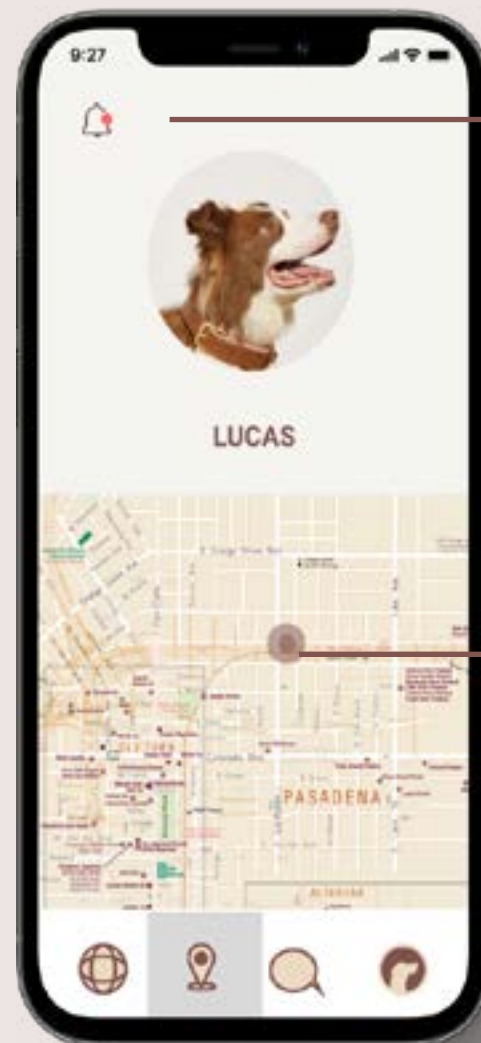
Click on it to know more information about this plant



Share your dog's photo and celebrate your best friend's life!

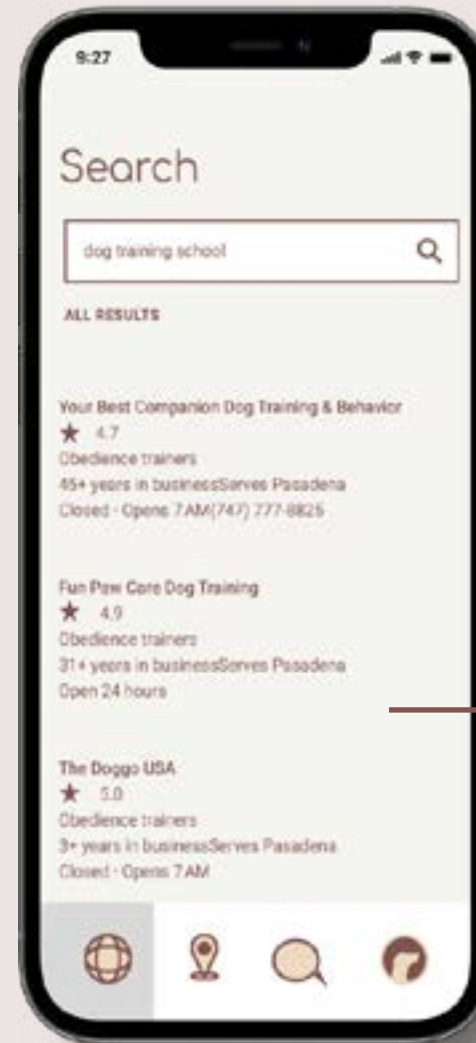
APP DEVELOPEMENT

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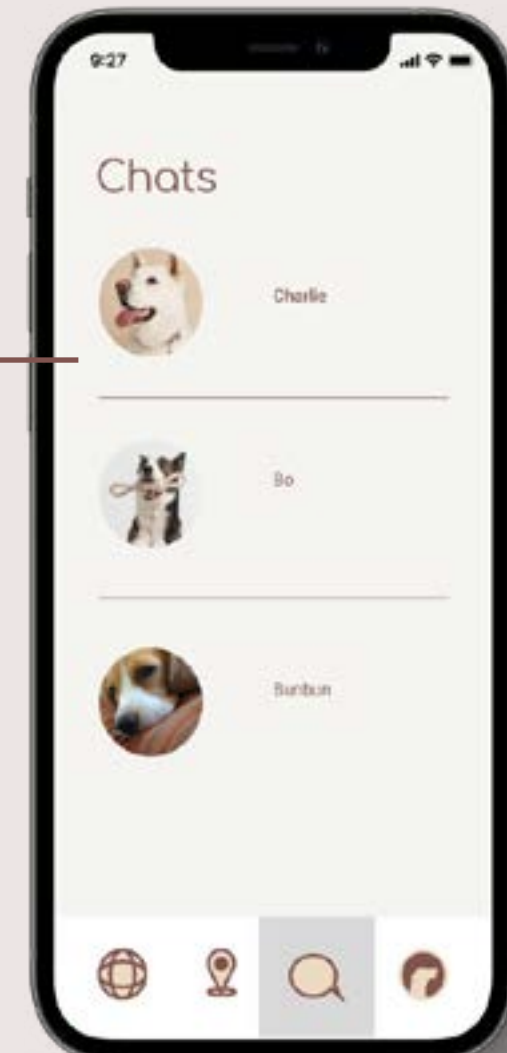


When a dog goes missing, people nearby will receive an alert and can see the dog's GPS location. You can also send out an alert if your dog goes missing.

The dog's GPS location.



You will be able to search and get information of pet hospitals, insurance, and training schools.



Help your dog make new friends and start socializing today!

FOREVER

WELCOME HOME KIT



DOG TREATS
IN SIX FLAVORS

A TRACKING
DOG TAG

A DOG TOY

A CALMING LAVENDER
SCENTED DIFFUSER



Join Forever for access to pet hospitals, insurance, and training schools. Connect with fellow pet owners and their furry companions today!

welcome



LUCAS

HOME STARTS HERE



CERTIFICATE OF ADOPTION

NAME: LUCAS
BIRTHDAY: 3/17/2021
DATE OF ADOPTION: 4/1/2021
BY: SIGNED BY: [Signature]
ACCEPTED BY: [Signature]

SUITE 1313

Suite 1313 is a series of unique beers, each embodying a distinctive character. These characters range from a monster suffering from environmental degradation to a ghost who is a victim of societal inequality.

I sincerely hope that everyone who reads these stories is inspired to combat injustice, cherish the present, and have the courage to be themselves.



SUITE
1313
BREWERY



SUITE
1313
BREWERY



SUITE
1313
BREWERY

RESEARCH

Keywords



Target Audience

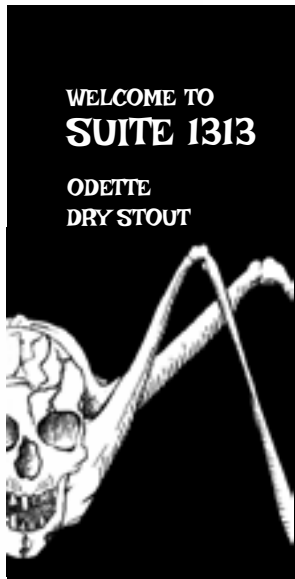
Age: 21-35
Party enthusiasts revel in the joy of social gatherings, using them as a means to unwind, forge connections, and create lasting memories with friends old and new.

Alex radiates infectious energy, effortlessly sparking conversations and forging bonds at social gatherings. Their vibrant personality and magnetic charisma ensure everyone has a fantastic time. He also unwinds with horror movies, finding solace from the stresses of work. With bold fashion choices and a passion for adventure, Alex lives by seizing the moment and embracing life's thrills.



ODETTE - DRY STOUT

Aspiring Star of the Ballet Stage



Odette's dream of becoming a ballerina takes a dark turn when pollution from a nearby factory alters her body, elongating her limbs and complicating her pursuit of grace. Each time the factory illegally discharges waste into the river, she transforms into a haunting figure, crawling through the factory like a terrifying spider to enforce justice.

BACK TO SUITE 1313...

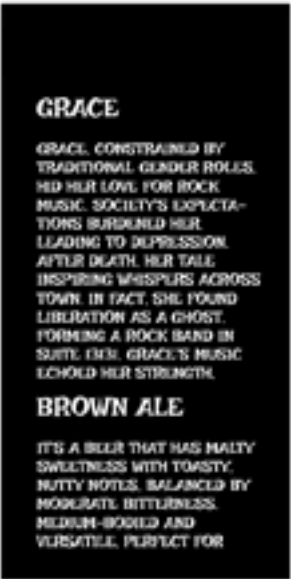
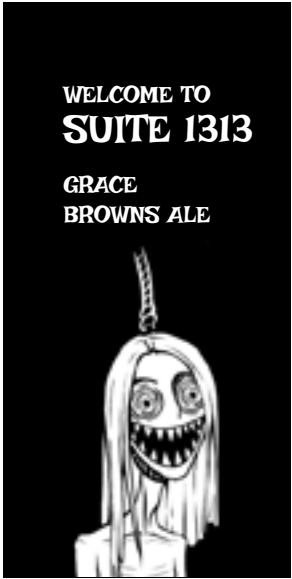
Once her task is done, she returns to Suite 1313, where she embraces her true passion as the prima ballerina, cheered on by her fellow residents who are her devoted fans.

GRACE - BROWN ALE

ROCK SOUL IN SKELETON



From a young age, Grace was groomed to conform to societal norms—taught to dress like a girl, prioritize family care, and marry at an appropriate age. However, her heart beat to a different rhythm; she found solace in music, dreaming of shredding guitars and rocking out on stage. Despite her passion, she was forbidden from pursuing her true calling. Tragically, the weight of societal expectations and repression led Grace down a path of despair, and she succumbed to depression. In death, Grace's spirit refused to be silenced. As a ghost, whispers of her haunting tale echoed through the town, but this time, Grace chose to rewrite her story.

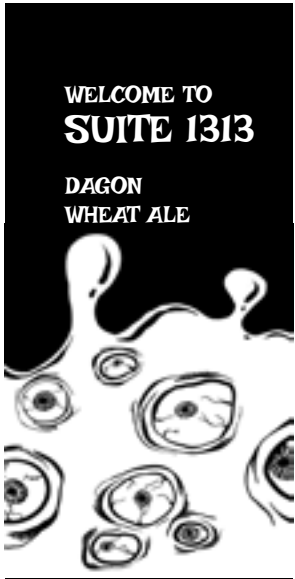


BACK TO SUITE 1313...

In the eerie silence of Suite 1313, she embraced her true self, forming her band and unleashing her rockstar dreams upon the world.

DAGON - WHEAT ALE

Talented Couch Potato



Dagon, the ancient octopus, slumbered peacefully in the abyss of the ocean for millennia until the encroaching marine pollution stirred him from his deep sleep. Awakening to a world transformed, Dagon found himself mutated, covered in countless eerie eyes that glowed in the dark depths, unsettling passing sailors.

BACK TO SUITE 1313...

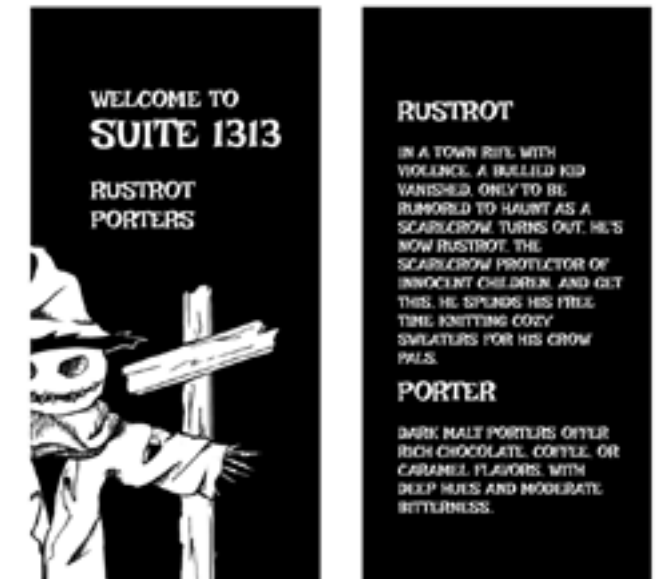
Despite the rumors of his malevolence, Dagon harbored no ill intentions. Instead, he retreated to the comforts of Suite 1313, where he indulged in his newfound love for watching TV shows and movies. His multitude of eyes allowed him to enjoy a plethora of films simultaneously.

RUSTROT - PORTERS

The Scarecrow Guardian of the Fields



In a town where violence was rampant, a young boy endured relentless bullying from his peers until he mysteriously disappeared. Soon after, a chilling scarecrow appeared in an abandoned farm nearby, sparking rumors that the boy's vengeful spirit had taken residence within. While there was truth to the tale, the boy, now known as Rustrot, found purpose in his eerie form: protecting innocent children from harm.



BACK TO SUITE 1313...

Yet, amid his solemn duty, he discovered joy in a surprising hobby—knitting cozy sweaters and scarves for his crow companions, revealing a heartwarming side to his haunting presence.

WELCOM TO SUITE 1313



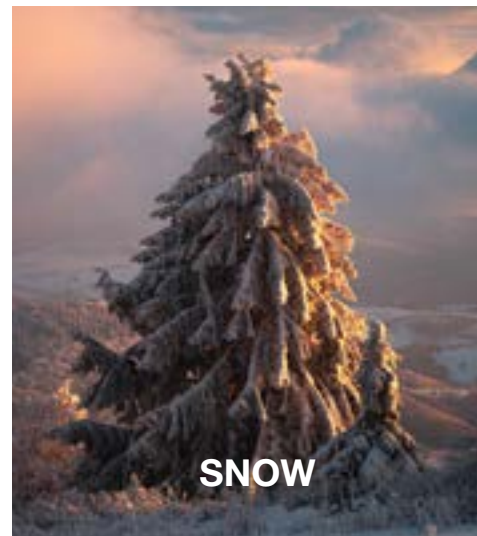
PEARL

Pearl is a premium skincare line designed for mothers and their newborns, offering gentle care for delicate baby skin and nourishing treatments for mothers' unique needs during this special time.

The Pearl series includes essential products: baby powder to keep skin dry and comfortable, soothing essence for hydration, rich moisturizing cream for softness, and a light, refreshing perfume. Each product is crafted with safe, high-quality ingredients to provide the best care for both mother and child.

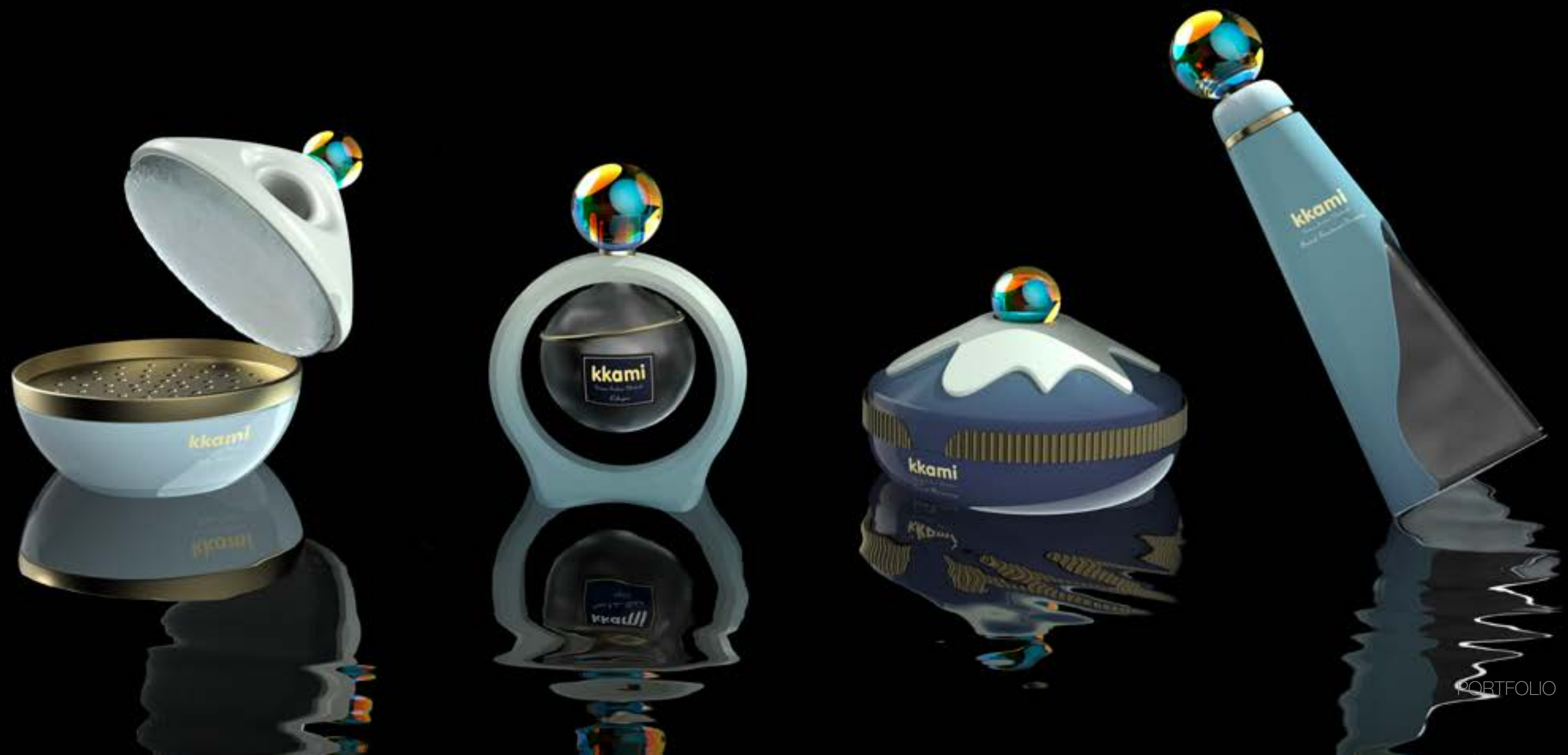


INSPIRATION



Our products draw inspiration from the ocean, the cradle of all life on Earth, and incorporate oceanic colors into their design. This choice is symbolic, reflecting the origin of life itself and the gentle, nurturing qualities of the sea.

Each container in the Pearl collection features a radiant sphere, serving as a poignant reminder that every mother and baby is precious. These luminous orbs encapsulate the essence of care, love, and the irreplaceable bond between parent and child, guiding mothers on their journey towards beauty, comfort, and well-being.







Visual Wave

The Visual Wave, despite its compact size, boasts an expansive screen that seamlessly merges music and photos into a delightful experience.

It is a versatile and captivating addition to any space.



