

88

View

CH₄

0.0004

ppm

CO₂

1000 ppm

0.05 ppm

AMs

2000 CFU/m³

APP 360



- Pet odor detection ٠
- air purification ٠
- health status alert •

Phenomenon:

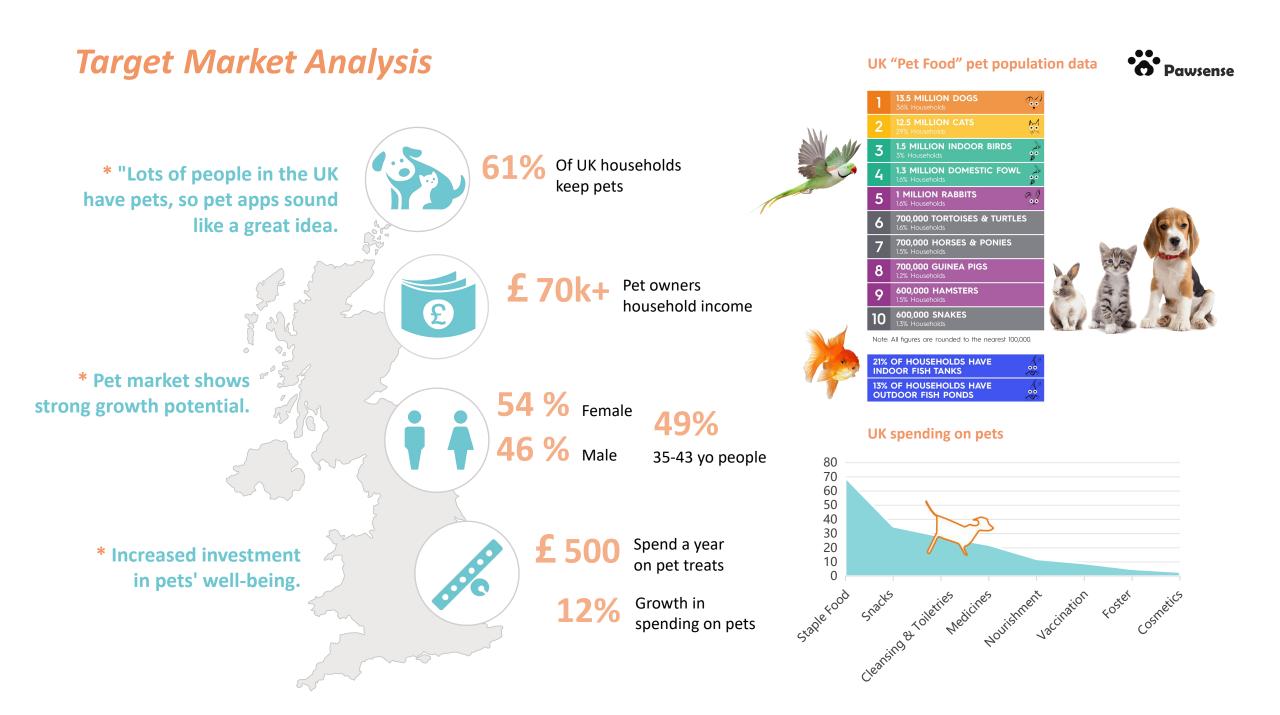
Pet owners often overlook changes in their pet's environment odour, which may signal health issues and impact indoor air quality.

Pain point:

odour affects the environment and also threatens the health of pets.

Solution:

Design an APP to monitor air quality in real time to protect pet health and purify the air to ensure a fresh living environment.



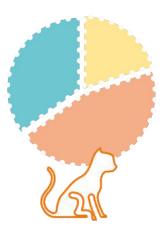
User Interview

What are pet owners' concerns about odour cleaning?



• How receptive pet owners are to health monitoring products. Are there smart pet devices being used in the home?

20%



Unfamiliarity with the product or high price concerns.

35%

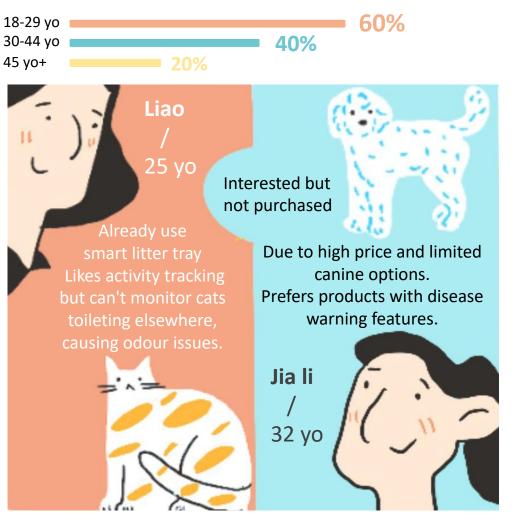
Already using health monitoring products (e.g., smart collars, monitors).

45%

Interest in purchasing such products in the future.

• What is the level of acceptance of smart products and what are the functional requirements?

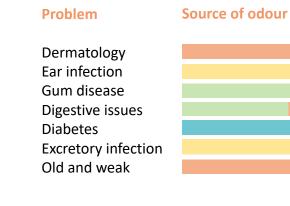
Dawsense



Scientific Data

Pawsense

The link between odour and pet health:



The impact of odours on pet health



Leftover food

Easy to breed mold or bugs, pollute the air.

ammonia, which

Releases

can cause headaches and

sore throats.



Allergies in the air can trigger

Dander and hair



May release harmful substances and pollute the air.

Cleanser

What it smells like

Bitter Herbs Mouldy or smelly feetGum Rotting, fishy smell Sour egg smell Caramel or rotten apple Ammonia, rotten egg Greasy smell

- Breathing
- Sweat
- Secretion
- Saliva

asthma.



Pet ownership often comes with challenges:



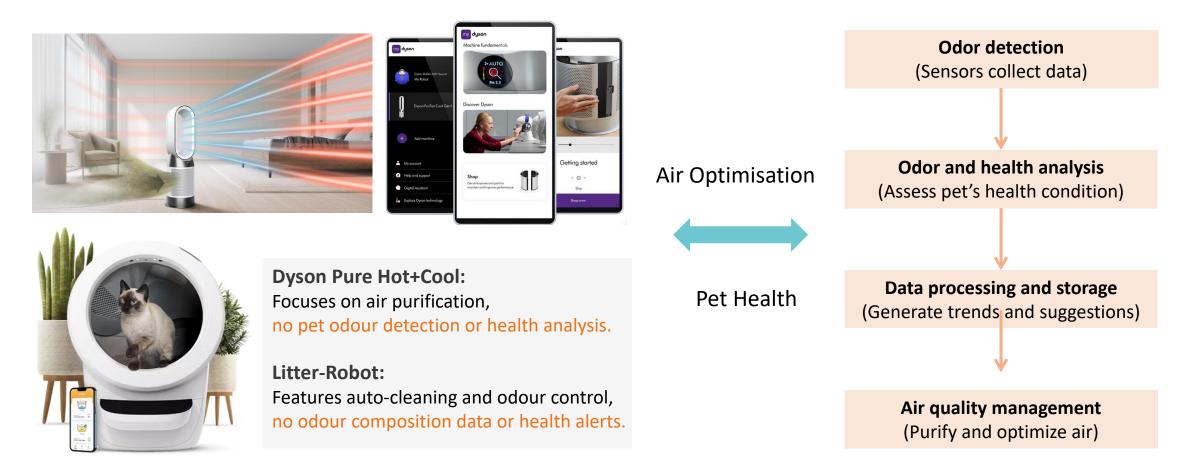
Urine and excretion

Pain Points Analysis

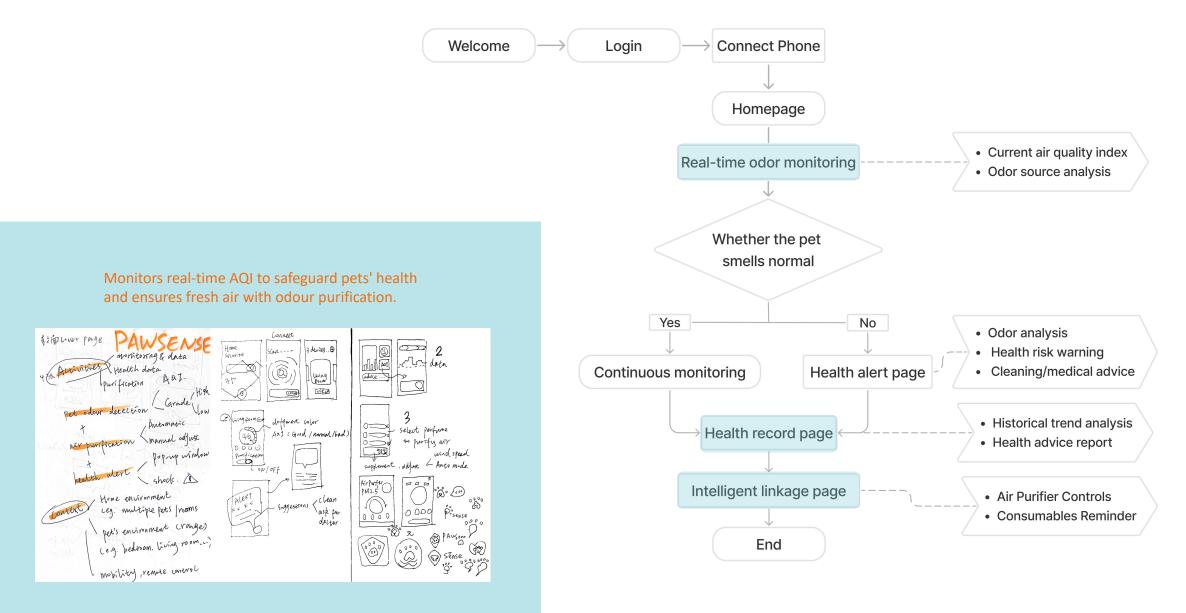
Pawsense

Market Competition

"PawSense" APP basic workflow



Sketchs & Wireframe

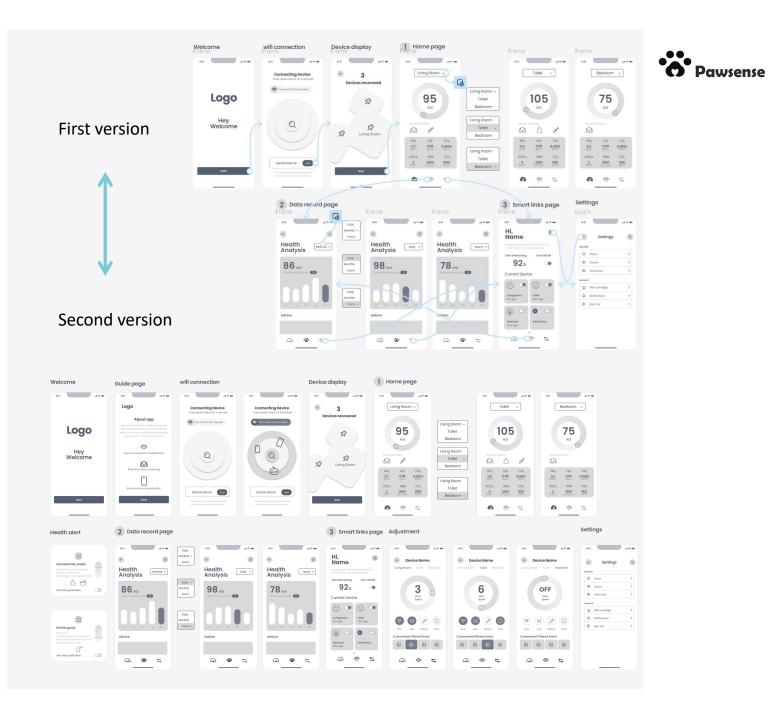


User Test & Feedback

User Testing 1 - View

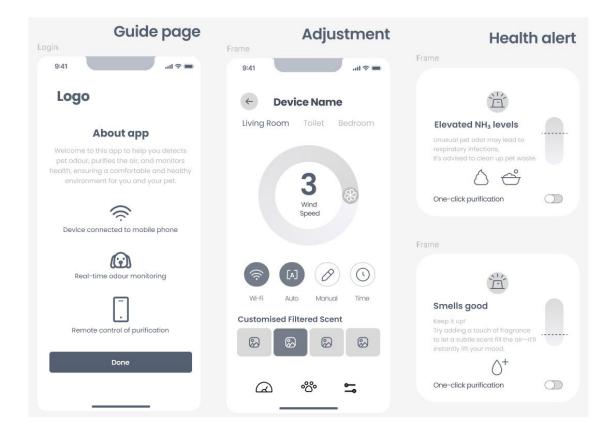
First user test feedback shows complex information and excessive functionality cause confusion.

- Need a preliminary introductory screen about the app.
- Is it possible to set a reminder if the AQI is bad?
- Can the specific purification function be a little more comprehensive regarding this device that its for identification? For example, selectable fragrance, or wind speed, etc.
- The pet health interface needs more data related to pet odour.



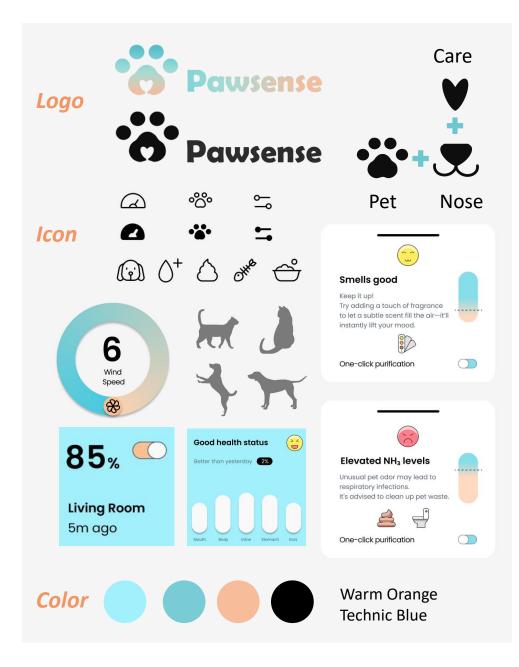
Modification & Visual elements

User Testing 2 - View



Added an introductory screen for the app

Added interface to set device options like auto/manual purification, fragrance, wind speed, etc. Set up a pop-up to view AQI analysis (good or bad) and a quick one-click purification option.



Outputs

• Pawsense

Simulation Video - View



Health alert

2 Data record page

3 Smart links page Adjustment

9:41 9:41 al 🕆 🗖 9:41 al 🕆 🖿 9:41 ...l 🕆 🔳 9:41 al 🕆 🔳 ...l 🕆 🔳 9:41 all 🕆 💻 Daily Monthly \sim Device C ← Device Name C C ← Device Name ← Device Name Elevated NH₃ levels Yearly Management ~ Settings Q Living Room Toilet Bedroom Living Room Toilet Bedroom Living Room Toilet Bedroom Pet Health Monthly ~ Unusual pet odor may lead to Pet Health Pet Health Managing odours and purifying the air for the health of our pets and ours. Daily 🗸 Yearly 🗸 General Analysis Analysis It's advised to clean up pet waste. Analysis 8 🖸 Share > Toilet filter cartridge low, 2 뮡 Daily 🗸 please refill. Sound 3 6 > Monthly Good health status OFF One-click purification Oral diseases Pet indigestion 88 Yearly Current Device Turn on/off Advanced > Worse than last month Worse than last year Better than vesterday Wind Speed Wind Speed Wind Speed Account 51, 🤍 85, 🤍 88 > Filter cartridge > Daily Living Room Toilet (Q Notifications 5m ago 30m ago > Monthly 0 0 0 <u></u> [A] 1 A D \odot <u></u> [A] \odot Yearly 🗸 🕒 Sign Out > Smells good Wi-Fi Manual Time Wi-Fi Manual Time WHE Manual Time 92% 🗩 🕂 Auto Auto Auto Keep it up! Try adding a touch of fragrance to let a subtle scent fill the air—it'll Advice Advice Custom Scented Filter Custom Scented Filter **Custom Scented Filter ∆**dvice Bedroom Add Device instantly lift your mood. \bigcirc 뿃 Z 1 费 뿃 \bigcirc Z \bigcirc 5 Regularly clean your pet's living areas, use natural and Regularly clean your pet's living areas, use natural and 5hrs ago Regularly clean your pet's ١ Aquatic Aquatic Green Green Citrus Chus Aquatic None One-click purification • ംറ്റം ംറ്റം ംറ്റം \square • ÷ \square • ŝ \square <u></u> 5 \square 5 ംറ്റം 5 \square

