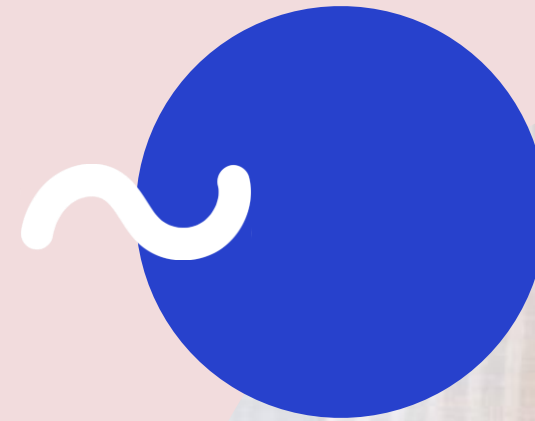




Hello, Fuzzy Friend!



Group 6





Table of Contents

- Problem Statement & Our Solution
- Architecture Diagram
- Product Demo
- Business Model & Plan
- Q&A

Our Team



Pooja Shah
UI Strategy & HR

Experienced HR professional driving people strategy, analytics, and organizational effectiveness.

Srinidhi Jagannathan
Product & Data Analytics

Turning complex data into actionable insights. Experienced in product strategy, AI/ML, and cross-functional collaboration.



Yi Zhang (Annie)
AI Quality & Safety Specialist

Risk & Compliance Mindset | AI
Product Delivery | Strategic
Analysis

Yaqing He (Rachel)
Project Manager & GTM

Experienced professional in competitive intelligence research, go-to-market and business strategy.



× The \$40B Vet Care Market Has a Decision Gap

“Is my pet okay? Do we need to go to the ER now?”

52%

of US pet owners skipped
vet care due to cost

Average ER visit cost

\$800 – \$1,500

37%

struggle with timely
appointments



Google/AI Search



Emergency ER Visit

94M US pet households

Spent on vet
care annually **\$39.8B**

Telehealth market projected by 2034

\$600M




AI-powered Symptom Triage ✕

Product Vision: Clear answers in anxious moments — helping pet parents make confident care decisions for cats and dogs.

Competitive Gap


Feature	Typical Pet Health Apps	Fuzzy Friend
Symptom Analysis	Basic static checklists	AI-guided triage with context
Urgency Guidance	No urgency grading or generic advice (“see vet”)	Clear urgency levels (Low, Medium, High)
Personalization	One-size-fits-all	Pet details (name, age, history) throughout
Conversational Support	Static forms or text lists	Interactive chatbot that mirrors a conversation
Actionable Next Steps	Generic suggestion	Suggests nearest ER when urgency is high
Community Support	Rare/limited	Built-in Forum for shared experiences

What We Built




GPT-4 + RAG

AI-powered symptom triage for dogs & cats




Photo/Text Input

Risk level output



Safety-First

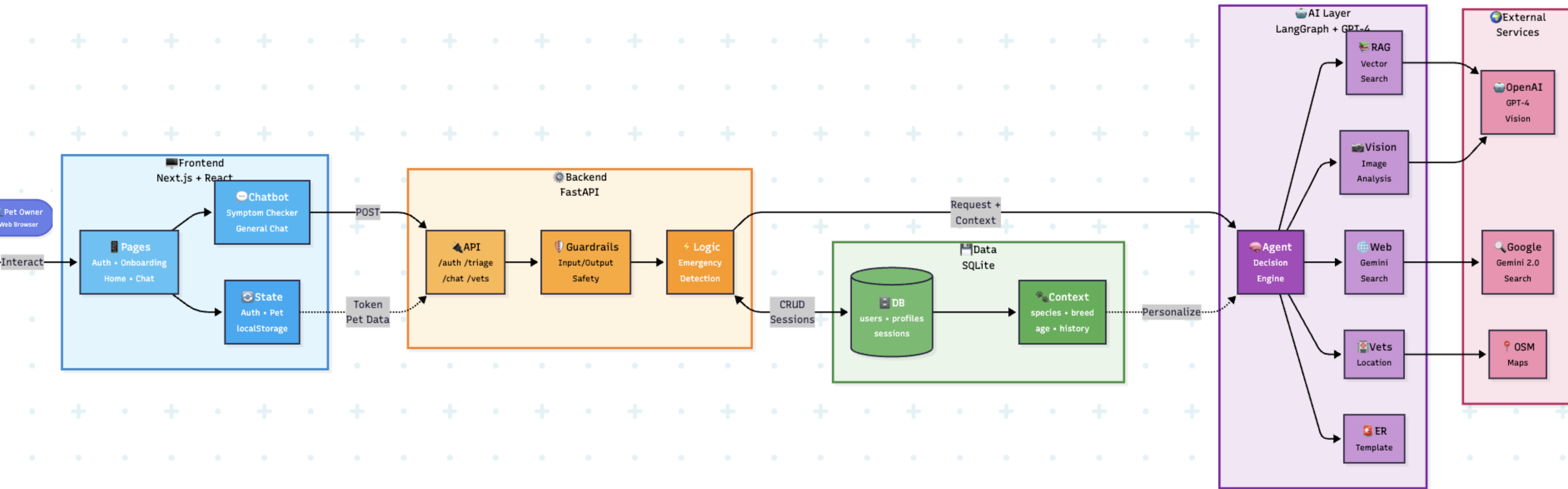
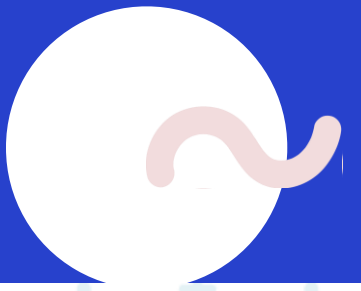
5-layer input + 6-layer output guardrails



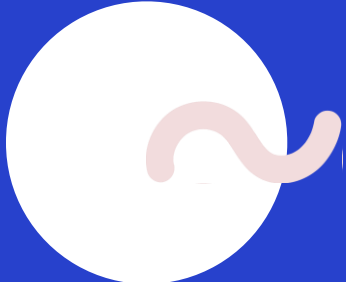
Emergency Routing

Hard-coded paths for life-threatening cases

Architecture Diagram

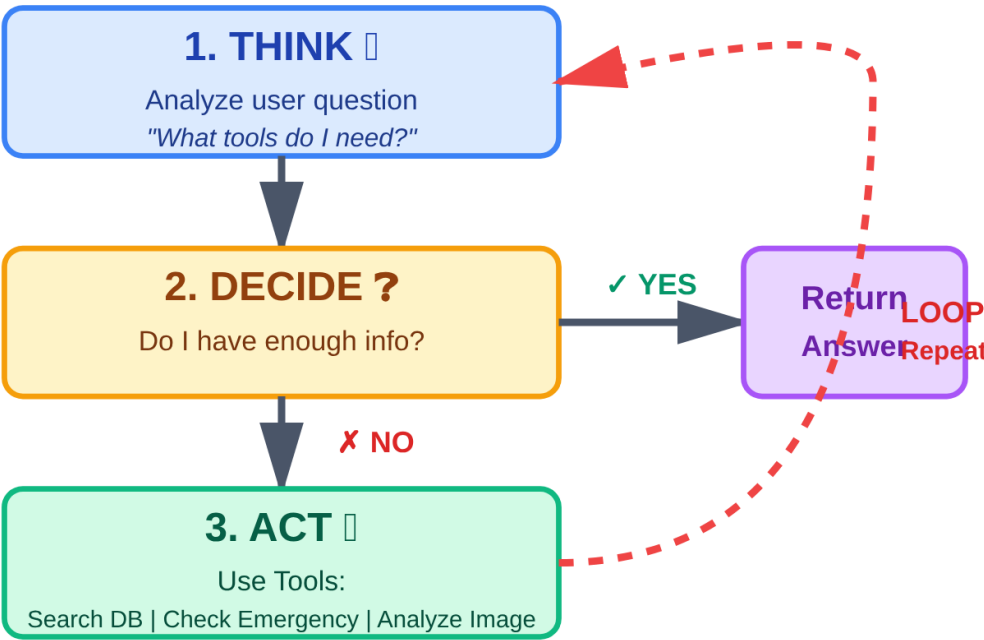


Architecture Diagram



ReAct Agent: Smart Tool Selection

Reasoning + Acting = Intelligent Decisions



Available Tools (Agent Picks What's Needed)

Vector Search

Red Flags

Image Analysis

Find Vets

Web Search

...and more

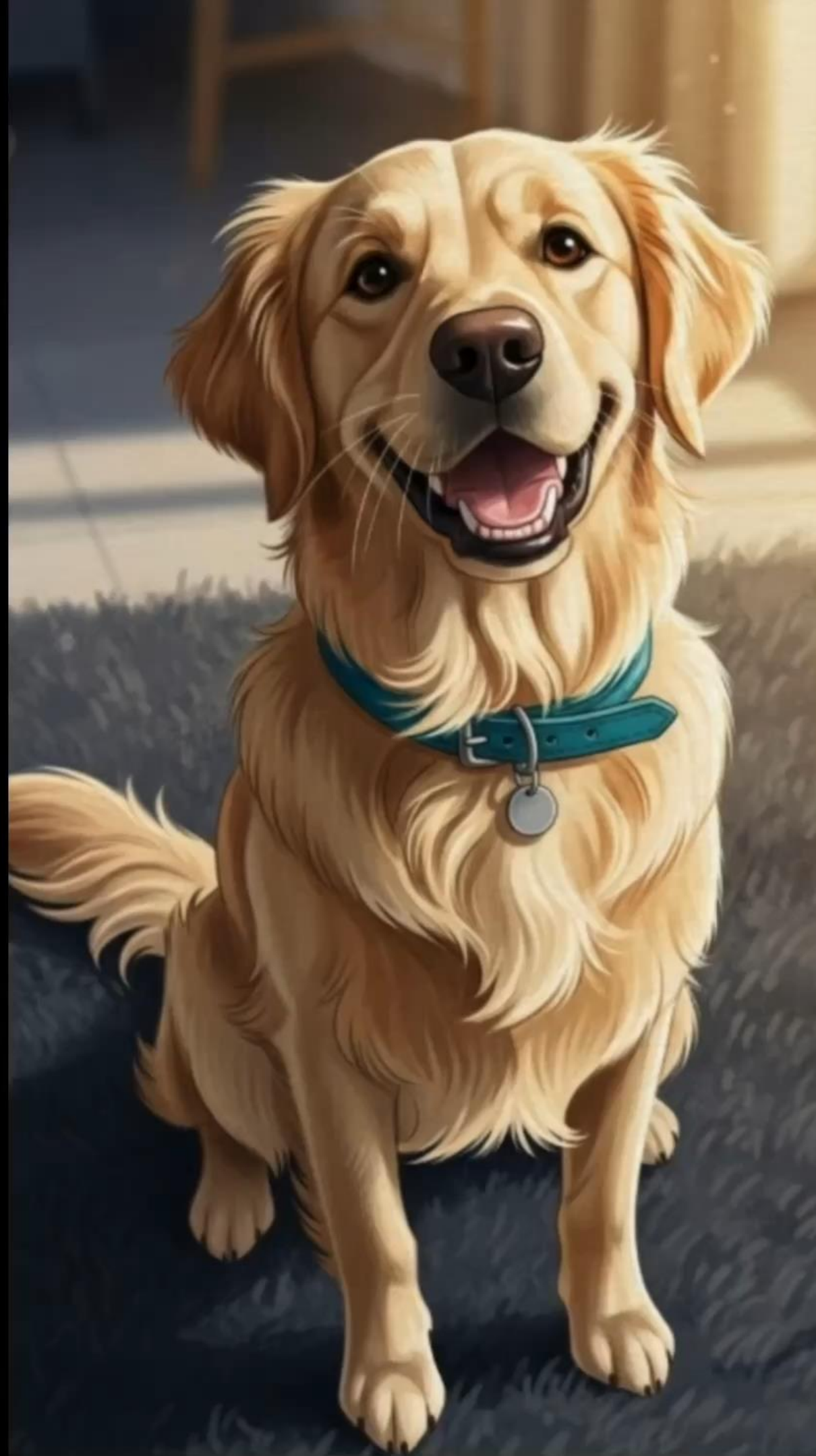
Why This Matters:

Simple chatbot: Always does the same thing

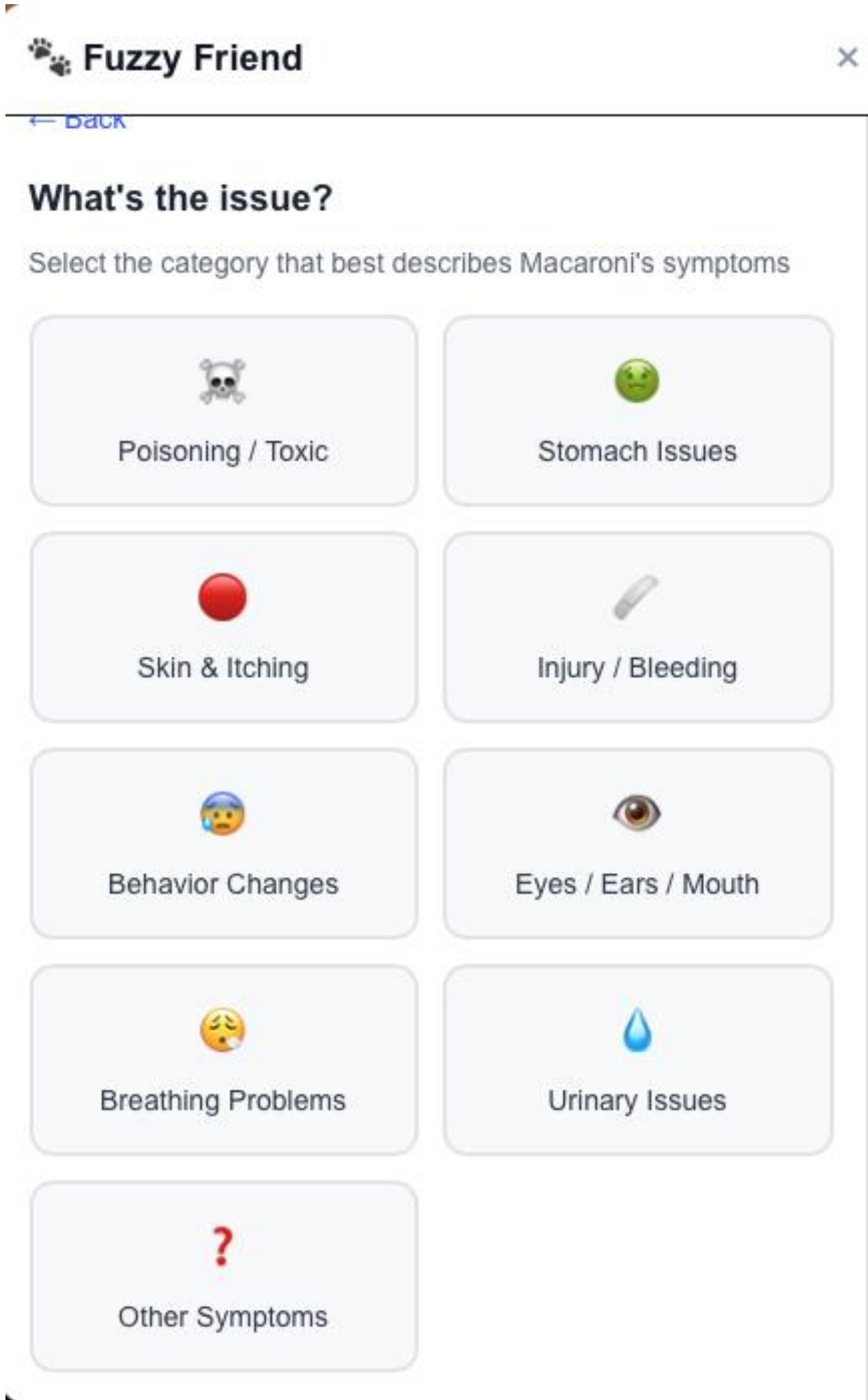
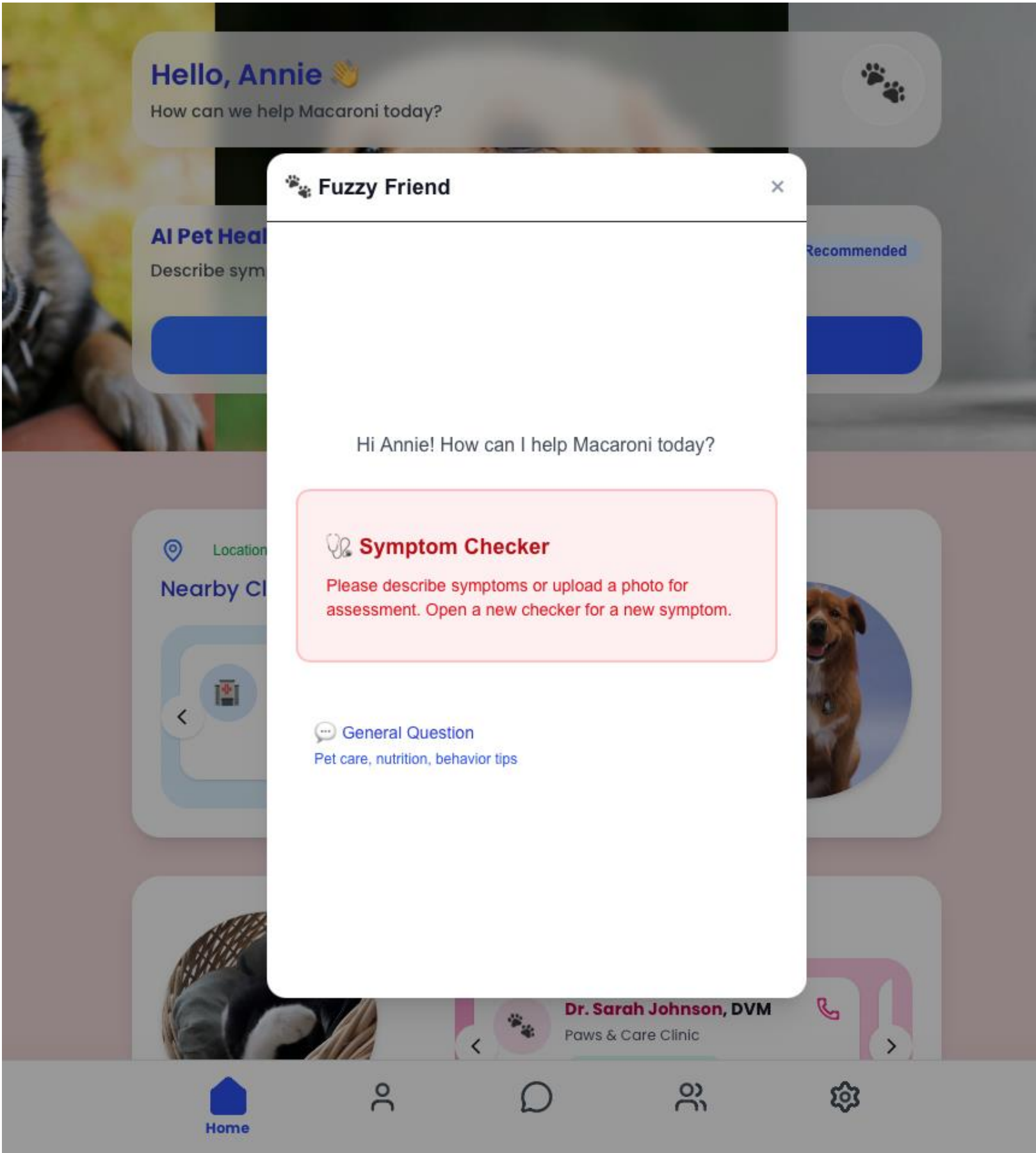
Our ReAct Agent: Thinks about what's needed, picks the right tools, loops until it has the answer



Product Demo



AI Pet Health Check



Screenshots

Symptom Checker

Fuzzy Friend

Poisoning / Toxic

Switch mode

Poisoning / Toxic

Describe Macaroni's symptoms in detail, or upload a photo for assessment.

What's the weather like today?

I'm a pet health assistant specialized in dogs and cats. I can only help with pet health-related questions. Please describe your dog's or cat's symptoms or health concerns.

Scenario 1

Eyes / Ears / Mouth

Describe Macaroni's symptoms in detail, or upload a photo for assessment.

I noticed some black discoloration on his gums. Could it be an infection?



[Image]

Monitor at Home

Category: Ears, Eyes, and Mouth

Why:

- The black discoloration on the gums is not immediately life-threatening.
- No signs of bleeding, open wounds, or severe distress were noted.

What to do:

- Monitor the discoloration for any changes in size, color, or texture.
- Ensure your dog is eating and drinking normally.
- Schedule a vet appointment if the discoloration persists or worsens.

Watch for:

- Watch for changes in the discoloration.
- Look for any signs of discomfort or pain in your dog.
- Ensure there are no changes in eating or drinking habits.

This is not a veterinary diagnosis. If symptoms worsen or you're concerned, seek veterinary care immediately.

Image Analyzed

Low

Scenario 2

Skin & Itching

Describe Macaroni's symptoms in detail, or upload a photo for assessment.

Macaroni's been scratching at his paws a lot lately, and today I noticed the area between his toes is scratched raw and there's a little bit of bleeding.

EMERGENCY

Category: Itching & Skin Issues

Why:

- Emergency symptoms detected: bleeding

Red Flags:

- bleeding

What to do:

- Go to an emergency vet now
- Do not apply random human creams or medications

Watch for:

- Facial/throat swelling
- Breathing changes
- Mental status

Nearby Vets:

- ER United Veterinary Speciality & Emergency (3.24 mi)
Hours: Call to confirm
- Banfield Pet Hospital (3.39 mi)
Hours: Call to confirm
- Banfield Pet Hospital (3.42 mi)
Hours: Call to confirm
- Mid-Peninsula Animal Hoapital (4.46 mi) +1-650-325-5671
Hours: Mo-Fr 08:00-18:00; Sa 08:00-17:00; Su 09:00-17:00
- Veterinary Clinic (5.02 mi)
Hours: Call to confirm

This is not a diagnosis. If symptoms worsen, seek immediate care.

High

Scenario 3

Breathing Problems

Describe Macaroni's symptoms in detail, or upload a photo for assessment.

Macaroni suddenly developed a runny nose and keeps licking his nose. The discharge is continuous. What's going on?

Schedule Soon

Category: Breathing Issues

Why:

- Continuous nasal discharge could indicate an upper respiratory infection or allergic reaction.
- Persistent licking of the nose suggests irritation or discomfort, which should be evaluated by a vet.

What to do:

- Schedule a veterinary appointment within the next 2-3 days to assess the cause of the nasal discharge.
- Monitor for any additional symptoms such as coughing, sneezing, or changes in appetite.

Watch for:

- Watch for any worsening of symptoms or new symptoms such as coughing or difficulty breathing.
- Ensure Macaroni remains hydrated and comfortable.

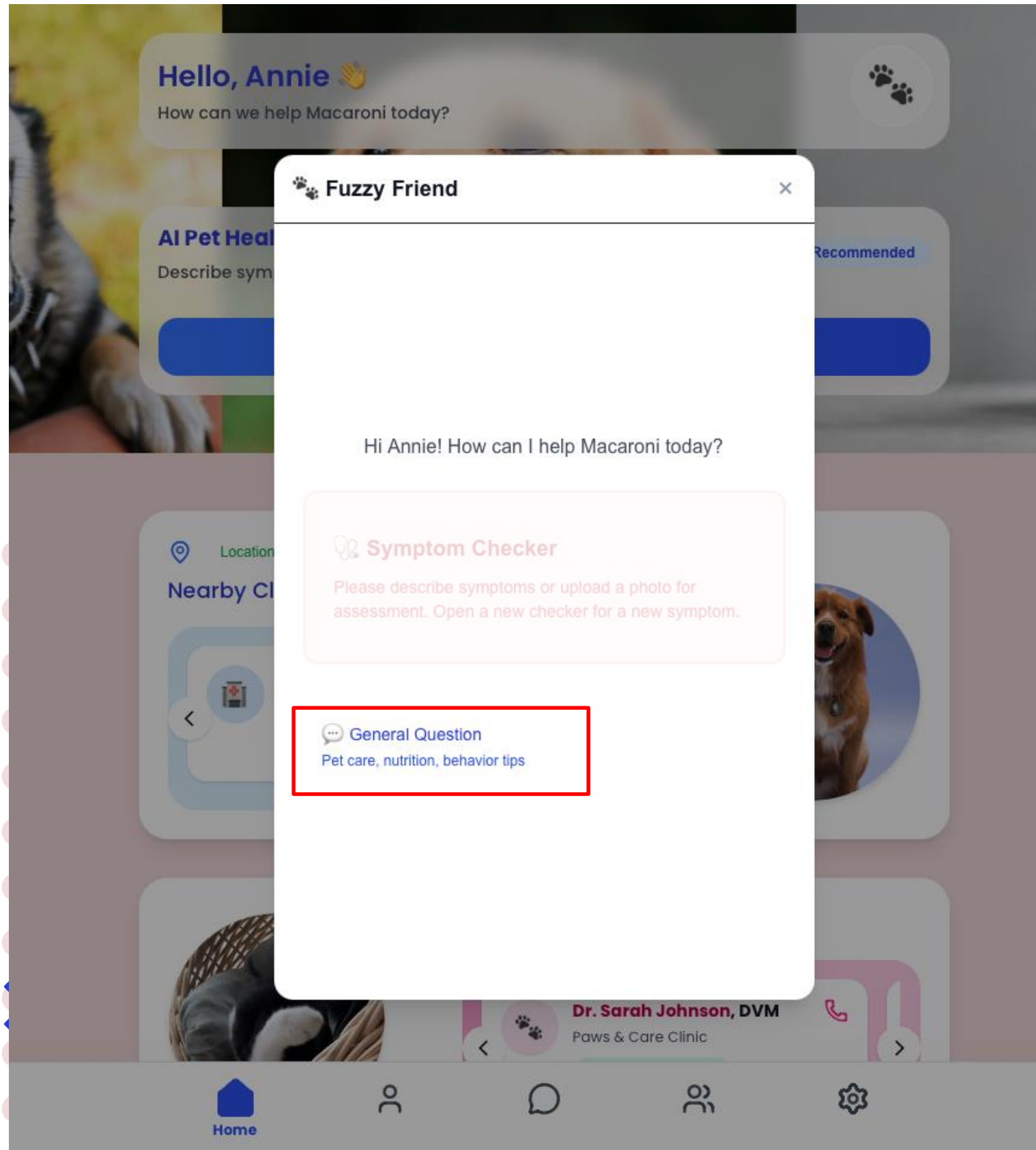
This is not a veterinary diagnosis. If symptoms worsen or you're concerned, seek veterinary care immediately.

Medium

Scenario 4

Screenshots

General Question



General Question

Switch mode

Hi Annie! What would you like to know about pet care? Ask me anything!

Why was my dog so aggressive toward Chihuahuas on our walk today?

Aggression in dogs, including your Golden Retriever, can stem from various factors. Here are some possible reasons why Macaroni may have shown aggression towards Chihuahuas during your walk:



- Fear or Anxiety:** Macaroni might feel threatened by the smaller dogs, leading to aggressive behavior as a defense mechanism.
- Territorial Behavior:** Dogs can be territorial, and Macaroni might perceive the Chihuahuas as intruders in his space.
- Socialization Issues:** If Macaroni hasn't been
- Playfulness Misinterpreted:** Sometimes, what appears to be aggression could be a dog's way of trying to play, especially if he gets overly excited.
- Past Experiences:** If Macaroni had a negative encounter with a smaller dog in the past, it could influence his behavior toward them now.
- Protective Instincts:** If he feels the need to protect you or himself, he may react aggressively when encountering other dogs.

To address this behavior, consider the following steps:

- **Training and Socialization:** Work with a professional trainer who can help Macaroni learn appropriate behaviors around other dogs.
- **Positive Reinforcement:** Reward calm behavior when he encounters smaller dogs to encourage positive interactions.


- **Controlled Introductions:** Gradually expose him to Chihuahuas in a controlled setting to help him learn to interact positively.

If the aggression continues or escalates, consulting with a veterinarian or a professional dog behaviorist is advisable to rule out any underlying health issues or to develop a more tailored training plan.



Ask a question...

Send



Business Model: Freemium Subscription

Price Tiers

Tier	Price	Limits	Purpose
Free	\$0	1 pet, 2 triages/month Rate limit for general chat	Acquisition funnel
Plus	\$6.99/mo	1-2 pets, 2 triages/week	Core monetization
Pro	\$14.99/mo	1-5 pets, 2 triages/week	Multi-pet households

\$270K
ARR Potential

Year 1 target with 5% conversion of 50K downloads

Unit Economics

- LLM API cost: ~\$0.01 per triage
- Free tier (12 triages/year): ~\$0.12 API cost/user/year
- Plus tier (\$83.88/year): ~\$0.62 API cost





Land with First-Time Pet Parents, Expand with Data Moat



High-quality data will always be our top priority to achieve our commitment.

01

Launch

Months 1-6

- ✓ TikTok/Instagram pet communities
- ✓ Pet adoption partnerships
- ✓ SEO/GEO content strategy

02

Growth

Months 6-12

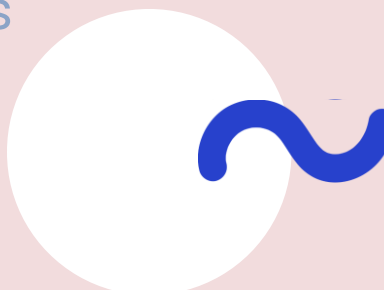
- ✓ Convert free users to premium
- ✓ B2B pilot with pet insurance
- ✓ Community data donation launch

03

Scale

Year 1+

- ✓ Vet telehealth integration
- ✓ International expansion
- ✓ Vet clinic data partnerships
- ✓ Video symptom input
- ✓ Voice message in chats





Fuzzy Friend
Pet Health AI

Thank You!
Questions?

Appendix

Vector Database (18,909 records indexed):

- 15,000 adverse event reports (openFDA API)
- 2,000 clinical notes + 2,000 symptom-condition pairs (HuggingFace dataset, MIT license)
- 594 pain assessments + 246 genetic risk profiles (Zenodo, Dryad - academic repositories)
- Image capability: Kaggle/Roboflow skin disease datasets
- Coverage: Dogs 71% | Cats 29% | 9 Body systems

LLM Knowledge We Leverage (no RAG needed):

- Merck Veterinary Manual, PetMD, VCA Hospital Library - public web content in base model
- ASPCA Toxic Plants List (700+ plants), WSAVA/AAHA clinical guidelines
- Reddit r/AskVet, Stack Exchange Pets - confirmed in GPT-4/Claude training data

Data Moat Roadmap:

- Near-term: Dog Aging Project (40K+ dogs, pending DUA approval)



