



Hello, Fuzzy Friend!



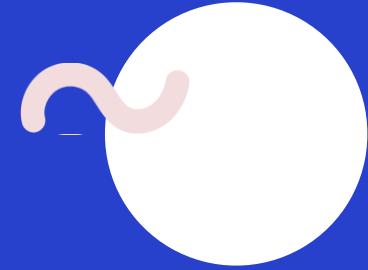
Group 6



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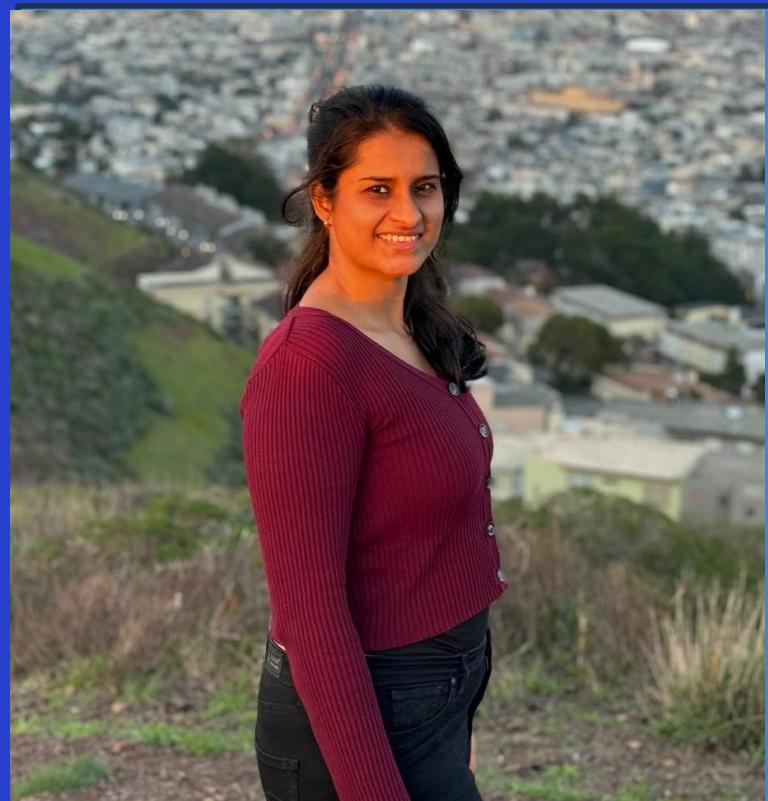
- Problem Statement & Our Solution
- Architecture Diagram
- Product Demo
- Business Model & Plan
- Q&A

Our Team



Pooja Shah
UI Strategy & HR

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



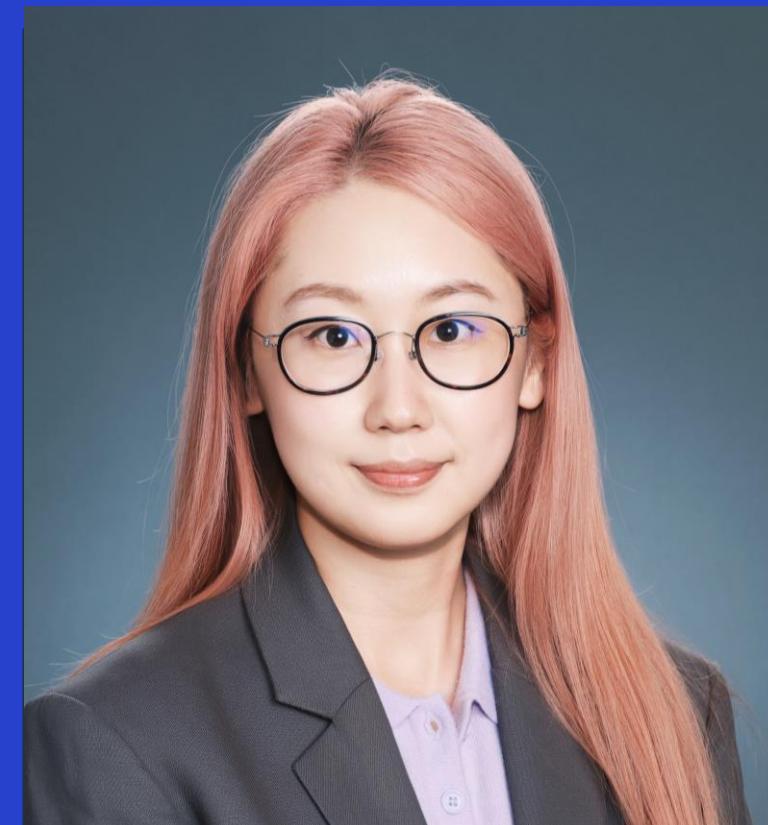
Srinidhi Jagannathan
Product & Data Analytics

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

Spent on vet
care annually
\$39.8B

Telehealth market projected by 2034

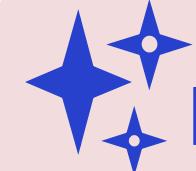
\$600M

Data sources: Access to Veterinary Care Coalition, American Veterinary Medical Association, American Pet Products Association, Precedence Research



Fuzzy Friend
Pet Health AI

AI-powered Symptom Triage



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

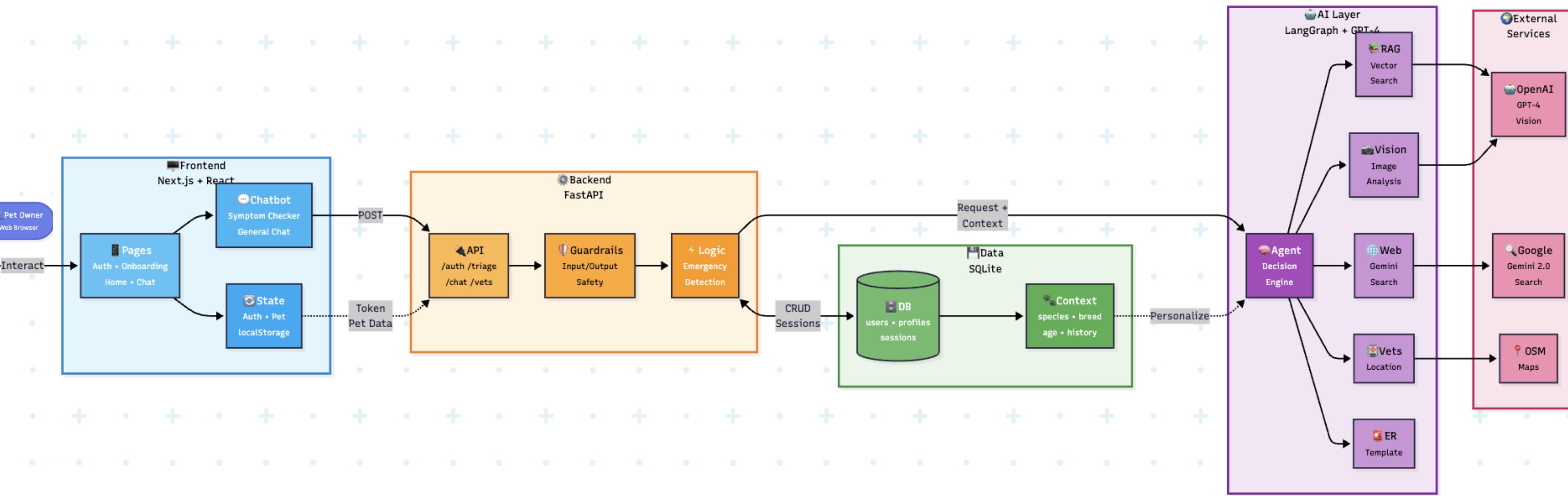
Competitive Gap

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

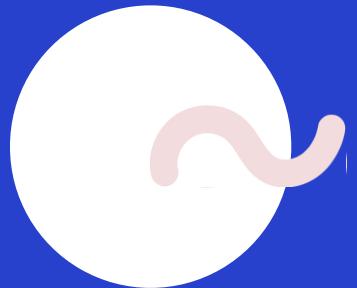
What We Built

	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

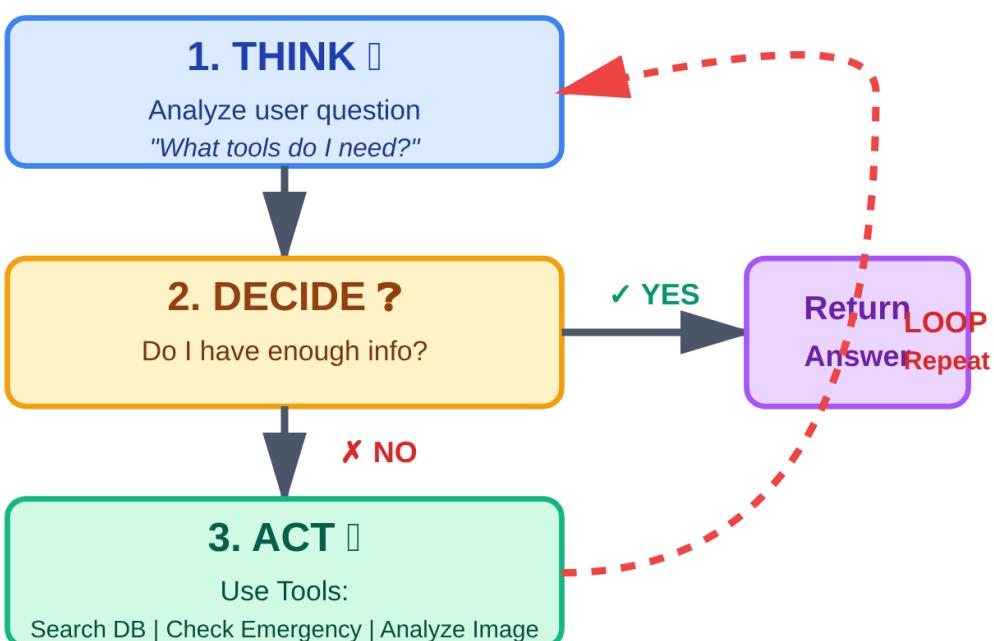


Architecture Diagram

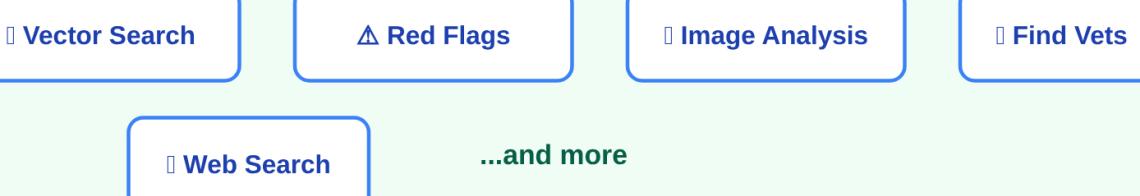


ReAct Agent: Smart Tool Selection

Reasoning + Acting = Intelligent Decisions



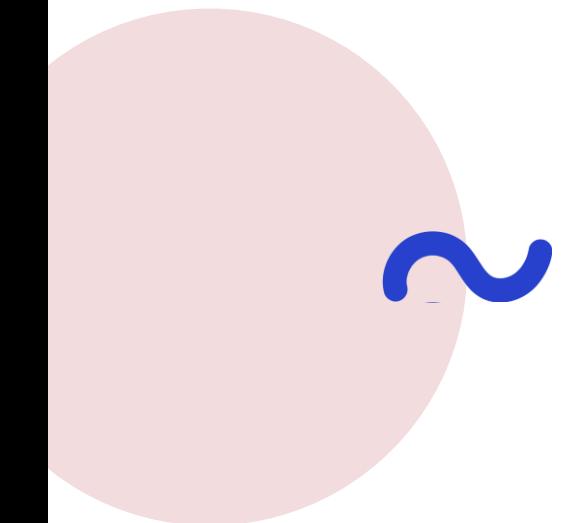
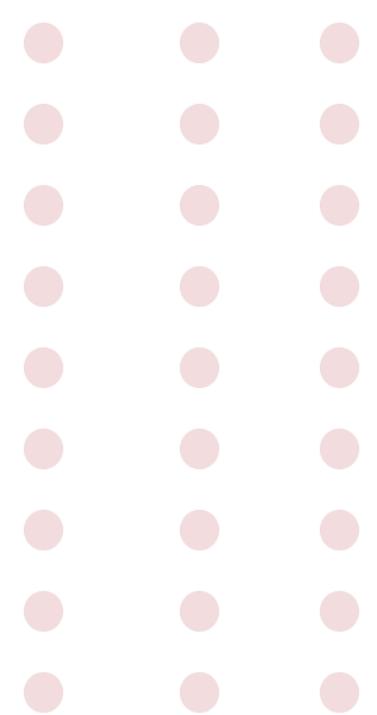
Available Tools (Agent Picks What's Needed)



Why This Matters:

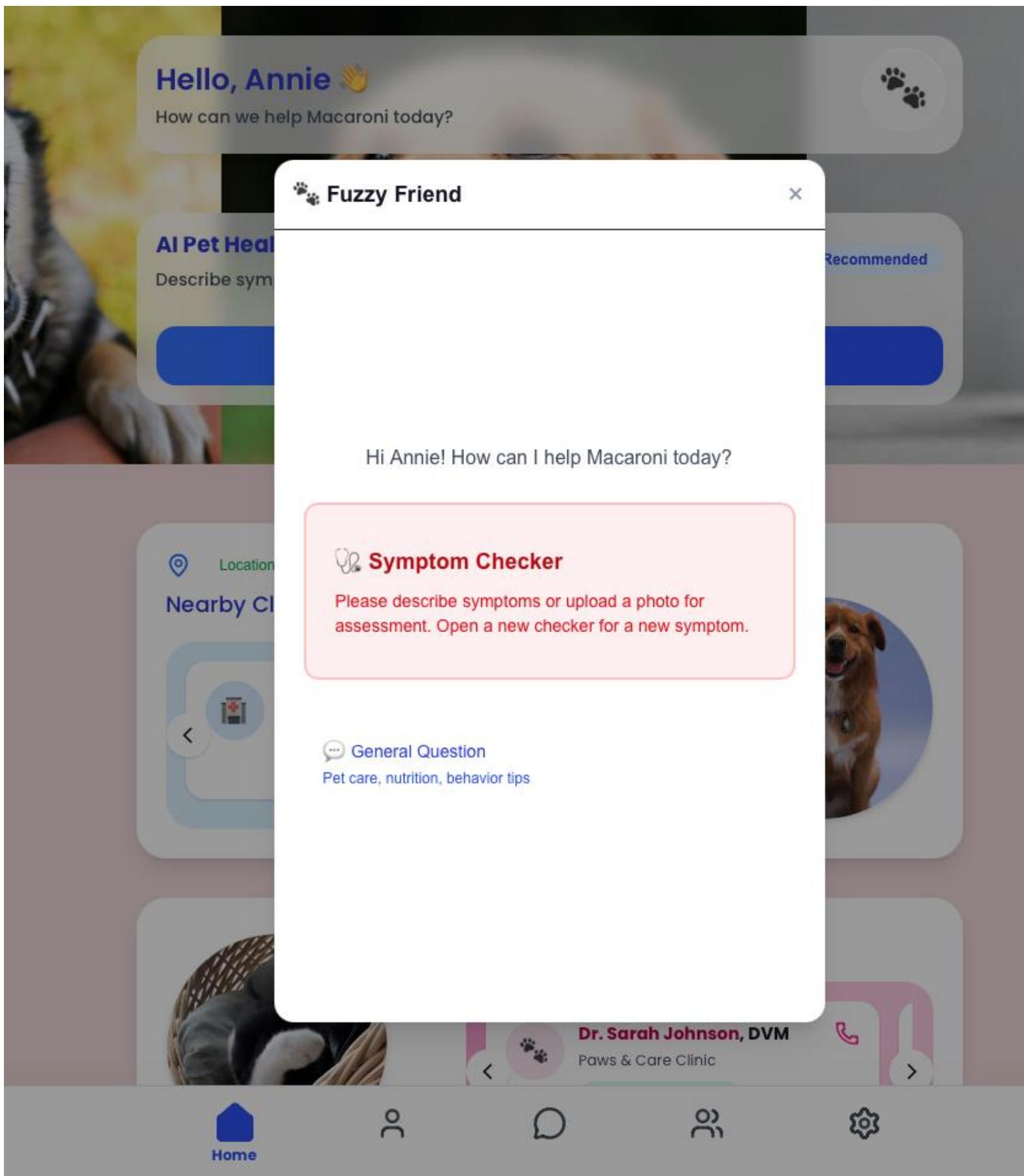
Simple chatbot: Always does the same thing

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



Product Demo

AI Pet Health Check



Fuzzy Friend X

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What's the issue?

Select the category that best describes Macaroni's symptoms

Poisoning / Toxic

Stomach Issues

Skin & Itching

Injury / Bleeding

Behavior Changes

Eyes / Ears / Mouth

Breathing Problems

Urinary Issues

Other Symptoms

Screenshots



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

The screenshot shows a mobile application interface. At the top, a banner says "Hello, Annie! How can we help Macaroni today?". Below it, a white box labeled "Fuzzy Friend" contains the text "Hi Annie! How can I help Macaroni today?". A red box highlights a button labeled "General Question Pet care, nutrition, behavior tips". To the right, there's a "Symptom Checker" section with a placeholder "Please describe symptoms or upload a photo for assessment. Open a new checker for a new symptom." At the bottom, a doctor profile for "Dr. Sarah Johnson, DVM Paws & Care Clinic" is shown, along with navigation icons for Home, People, Chat, and Settings.



The screenshot shows an AI-generated response. At the top, a message says "Hi Annie! What would you like to know about pet care? Ask me anything!". Below it, a blue button asks "Why was my dog so aggressive toward Chihuahuas on our walk today?". The AI then provides a detailed answer:

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:

- 1. Fear or Anxiety:** Macaroni might feel threatened by the smaller dogs, leading to aggressive behavior as a defense mechanism.
- 2. Territorial Behavior:** Dogs can be territorial, and Macaroni might perceive the Chihuahuas as intruders in his space.
- 3. Socialization Issues:** If Macaroni hasn't been properly socialized, he may react aggressively.
- 4. Playfulness Misinterpreted:** Sometimes, what appears to be aggression could be a dog's way of trying to play, especially if he gets overly excited.
- 5. Past Experiences:** If Macaroni had a negative encounter with a smaller dog in the past, it could influence his behavior toward them now.
- 6. 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.



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)



