Executive Summary

Pawnet is a social platform for pets and their owners that combines adoption services, emergency support, and community care. Users can:

- Adopt or rehome pets through verified profiles.
- Request urgent help (medical funds, temporary shelter).
- Report abuse or broadcast alerts for missing pets.
- Connect with vets, vendors, and shelters for pet care.
- Stay updated on health risks (like pet flu or pandemics).

Key Objectives

1. **Ethical Pet Adoption:** Match pets with loving homes using smart filters (e.g., location, breed).
2. **Rapid Emergency Alerts**: Notify nearby users about missing pets or abuse cases.
3. **Trusted Pet Care Network:** Partner with vets, vendors, and NGOs for reliable services.
4. **Public Health Safety:** Warn users about disease outbreaks affecting pets and humans.

Core Features

A. Adoption & Rehoming

Pet Profiles

- Create/edit pet profiles with photos, age, breed, and health details (e.g., vaccinations).
- Search for pets to adopt using filters like location, species, or special needs (e.g., disabled pets).

Amber Alerts for Missing Pets

- Instantly notify users in your area if a pet goes missing.
- Share photos, last-seen locations, and offer rewards for sightings.

Abuse Reporting

- Report animal cruelty anonymously with photos and location.
- Cases are sent directly to animal welfare groups for action.

B. Emergency Support

Help Requests

- Post urgent needs (e.g., "Need funds for surgery" or "Temporary foster care").
- Alerts are sent to nearby volunteers, shelters, or donors.

Health Alerts

- Receive warnings about disease outbreaks (e.g., bird flu) via app notifications.
- Tips from trusted health organizations like WHO.

C. Pet Care Services

Veterinarian Directory

- Find verified vets with specialties (e.g., surgery, dental care).
- Book appointments online and read reviews from other users.

Marketplace for Pet Supplies

- Buy food, toys, or accessories directly in the app.
- Discover deals from local vendors (e.g., 50% off flea collars).

D. Community & Safety

Volunteer Network

- Join local rescue missions or fundraising events (e.g., vaccination camps).
- Geo-Tagged Posts
- See posts and alerts specific to your area (e.g., adoption drives in Dhaka).

E. Health & Wellness Tools

Vet Appointments

- Schedule clinic visits or video consultations.
- Vaccination Reminders
- Get alerts for upcoming pet check-ups or medication schedules.

F. User-Friendly Tools

In-App Messaging

- Chat with adopters, vets, or volunteers.
- Simple Notifications
- Get updates via SMS or app alerts for urgent posts (e.g., missing pets).

G. Future Upgrades

Pet Health Dashboard

- Track your pet's medical history and diet in one place.
- Smart Search
- The app learns your preferences to show relevant pets or products.
- Local Partnerships
- Collaborate with NGOs for nationwide adoption campaigns.

Technical Stack

Layer	Technology
Frontend	React Native (mobile), React Web
Backend	Laravel (PHP) or Node.js (Express)
Database	PostgreSQL + Redis cache
Search	Elasticsearch
Media Storage	AWS S3 or Google Cloud Storage
Notifications	Firebase Cloud Messaging / Twilio
CI/CD	GitHub Actions + Docker + Kubernetes