

HCI Assignment 05

Wireframes & Figma Prototyping

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01 | Introducing

WagSync AI

Shaping the solution

Introducing: **WagSyncAI**

The Ultimate Dog Parenting Assistant

WagSyncAI is :

- the ultimate AI-powered dog parenting assistant
- designed to help dog owners seamlessly track health, nutrition, training progress, and
- socialization while managing a busy lifestyle.

This all-in-one app combines AI-driven recommendations, real-time health monitoring, and a social network for dog owners to ensure every pup gets the best care possible.



Image Source: Dall-E

Recognized few Primary Problems and focused on following solutions:

CHALLENGES

- 01 Health & Medical Record Management**
Pet owners often misplace medical records and struggle with tracking vet visits.
- 02 Training & Behavior Support**
Inconsistent training leads to confusion and behavioral issues in dogs.
- 03 Emergency & Lost Pet Recovery**
Owners panic during pet emergencies and lack immediate first-aid guidance.

SOLUTIONS

- Secure digital storage and smart reminders** for all health records and appointments.
- AI-powered interactive training guides** and behavior analysis for structured learning.
- Step-by-step emergency care guides** and instant lost pet alerts with GPS tracking.

Recognized few Primary Problems and focused on following solutions:

CHALLENGES

04

Daily Care & Routine Tracking

Busy schedules cause owners to forget feeding times, walks, and grooming.

05

Nutrition & Meal Planning

Owners struggle to determine the best diet for their dog's breed and health needs.

06

Socialization & Community Engagement

Finding playmates or pet-friendly events is difficult for dog owners.

SOLUTIONS



Automated **daily reminders** and synced **pet care routines** with smart assistants.



AI-generated meal plans and food ingredient analysis for optimal nutrition.



Connect owners via **playdate matchups**, **event finders**, and **breed-specific forums**.

User Journey Map

01. Awareness & Discovery

- User sees an ad, vet recommendation, or word-of-mouth referral.
- Visits the app store, reads reviews, and explores features.
- Feels curious but uncertain if the app is necessary.
- Decides to download after seeing **free trial & testimonials**.

02. Onboarding & Setup

- Creates an account and adds pet details (breed, age, medical history).
- AI suggests meal plans, training modules, and health tracking based on input.
- User explores the dashboard and sets custom reminders.
- Feels excited and reassured by the app's ease of use.

03. Daily Routine & Training

- User sees an ad, vet recommendation, or word-of-mouth referral.
- Visits the app store, reads reviews, and explores features.
- Feels curious but uncertain if the app is necessary.
- Decides to download after seeing **free trial & testimonials**.

04. Emergency or Health Issue

- Dog gets sick or lost; user quickly accesses emergency guide or vet records.
- Uses GPS tracking to locate a missing pet.
- Shares medical records with vet in one tap.
- Feels relieved and in control during stressful situations.

01. Socialization & Community

- Matches with local dog owners for playdates.
- Joins forums and discussion groups for training tips.
- Attends local pet-friendly events & training workshops.
- Feels more connected to a pet-loving community.

01. Long-Term Usage & Retention

- Tracks pet's training progress, health updates, and milestones.
- **Unlocks badges and earns rewards for consistent care.**
- Uses smart insights to adjust pet routines over time.
- Feels empowered and engaged, making WagSync AI a daily tool.

02 | Diving Into

Market Research

Shaping the solution

Feature Comparison

The features selected have been derived from needs identified from formative interviews including insights from 8 potential users

Feature	Dosty Petcare	PetNote+	Fuzzy Life	Whistle	Tractive	WagSync AI
Health & Vet Tracking	<input checked="" type="checkbox"/>					
AI-Powered Meal Plans	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Training & Behavior Support	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Emergency Care & First Aid	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Telehealth Integration	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GPS & Location Tracking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Social & Playdate Features	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Routine Management & Reminders	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gamification & Achievements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Legal Document Storage	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Medical Record Management	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Smart Sorting & Reminders	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Emergency File Access & Sharing	<input type="checkbox"/>	<input checked="" type="checkbox"/>				

03 | Iterative Design Approach

Paper Prototyping

Let's explore the future of dog care!

Paper Prototyping – Rapid Iteration & Exploration

01. Sketching Initial Concepts

- Created multiple rough sketches of different UI layouts.
- Focused on navigation flow, feature accessibility, and user-friendly design

02. Iterative Refinement

- Gathered feedback from peers on clarity & usability.
- Adjusted button placements, screen hierarchy, and information structure.

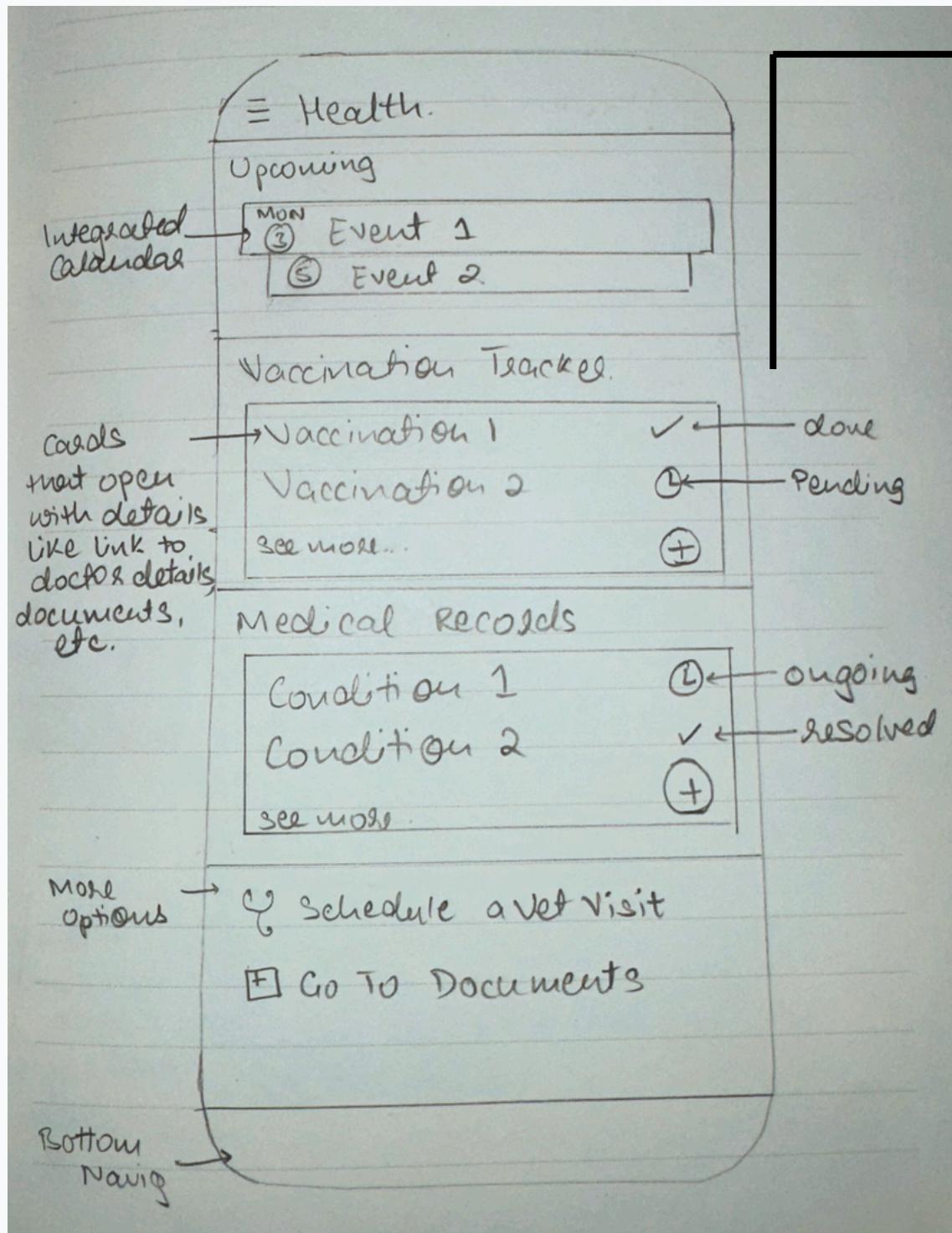
03. Final Paper Prototypes

- Consolidated the best design elements into a refined version.
- Ensured seamless transitions between screens and clear feature integration.

Lets Explore COre Features

- 01** Health Page
Tracks Health Conditions and Medical Requirements in the form of Calendar scheduling and reminders for appointments and linking to relevant documents.
- 02** Documents Page:
Inbuilt File system for storing medical and legal documents.
- 03** Nutrition Page:
Tracks health goals and food intake. Allows logging meals, has AI-generated meal plans available, provides a daily and weekly nutrient breakdown which can be customized by user, and has quick access to integrated calandar filtered by meals.
- 04** Training Page:
Tracks progress on primary training module. Wide array of Training Modules and Lessons available for user to chose from.
- 05** Emergency Page:
One Tap solution to turn on emergency mode, which switches on live tracking updates and diverts user to necessary resources.

HEALTH DOCUMENTS

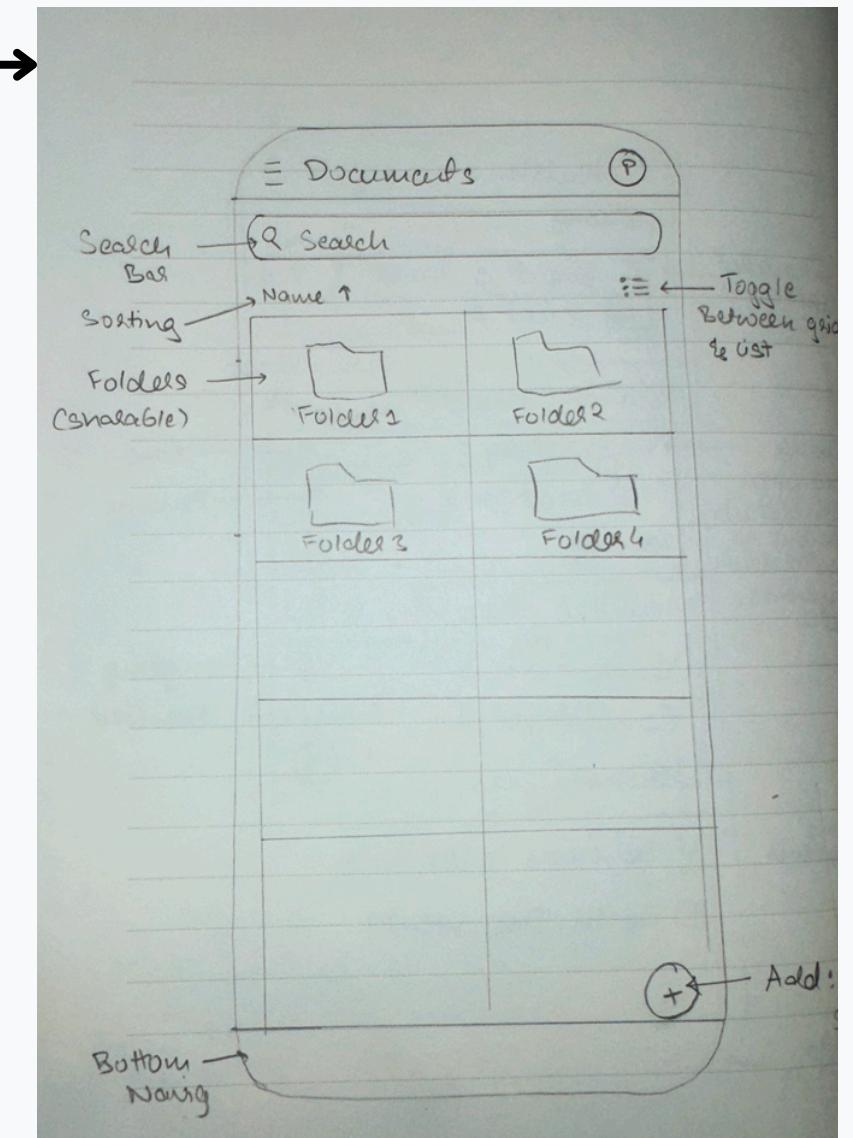


Access: The Health Page is available via Core Features Quick Access from the Home Page or the Menu Sidebar on any screen.

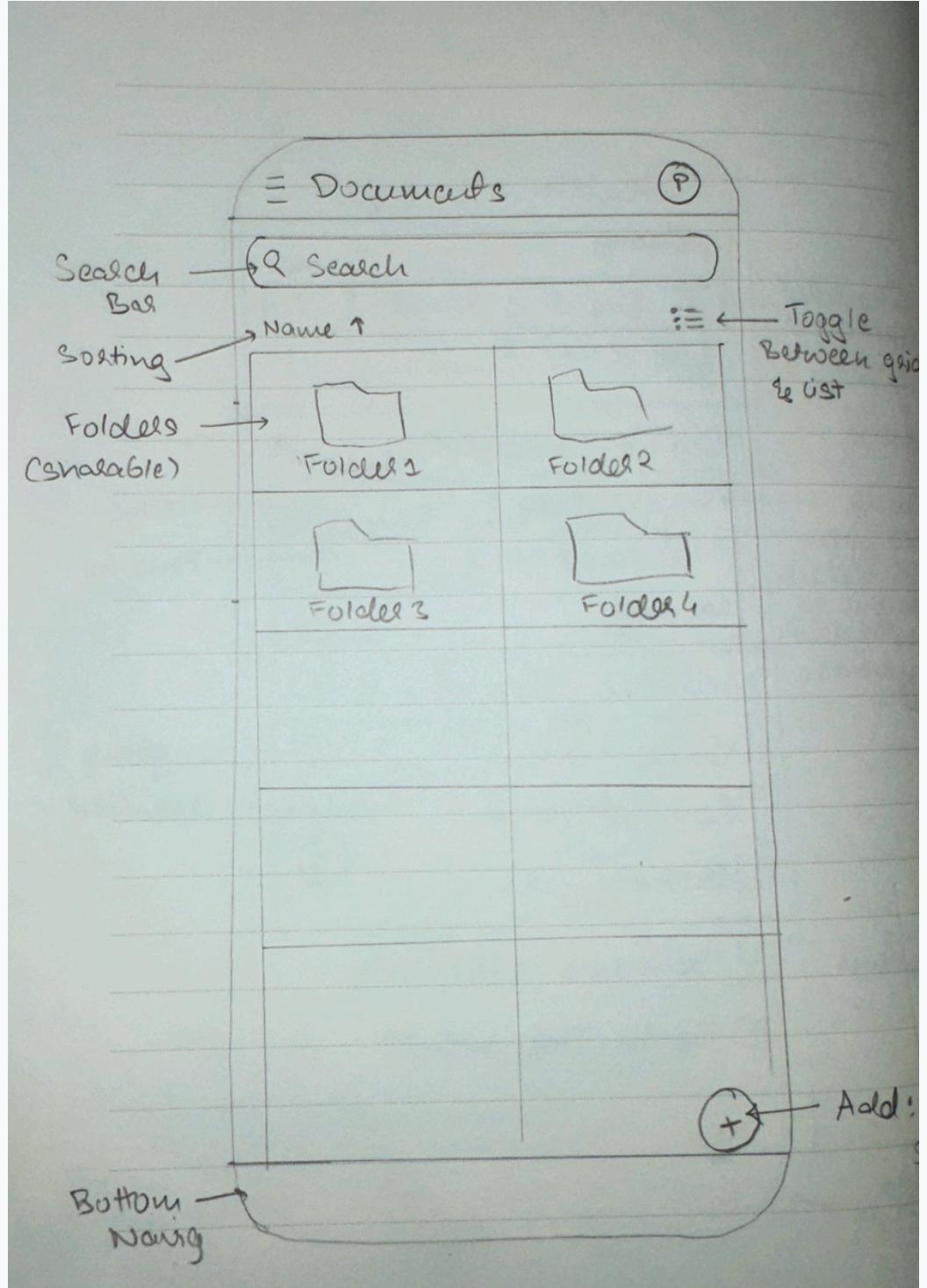
Sections:

- Upcoming Health Events: Tracks vaccinations, medical visits, and check-ups.
- Vaccination & Medical Records: Displays history, medications, and related documents. Each card expands to show details and links to stored medical files.

Quick Actions: Schedule Vet Visits and View Medical Documents from the in-app file system.



DOCUMENTS



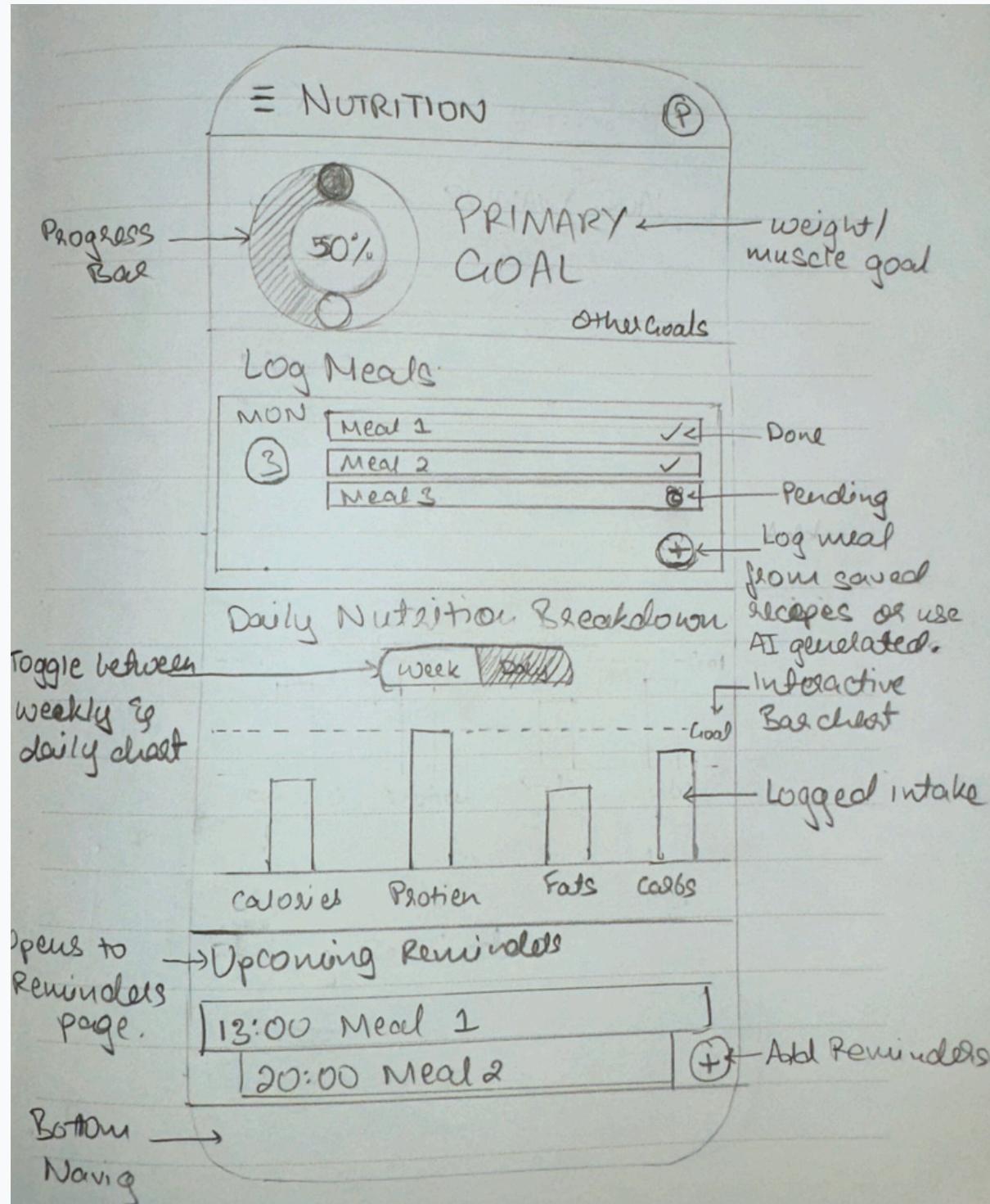
Access: Open from the Health Page, Vaccination & Condition Tabs, Quicklinks to Core Features (Home Page), or the Menu Sidebar.

Features:

- AI-Powered Search & Auto-Tagging: Organizes files into Legal, Medical, and other categories for easy access.
- View Options: Toggle between list or grid view for better file management.
- Folder Actions: Share, export, and manage stored files with additional options.

Quick Actions: Upload or scan documents directly into the WagSyncAI File System.

NUTRITION



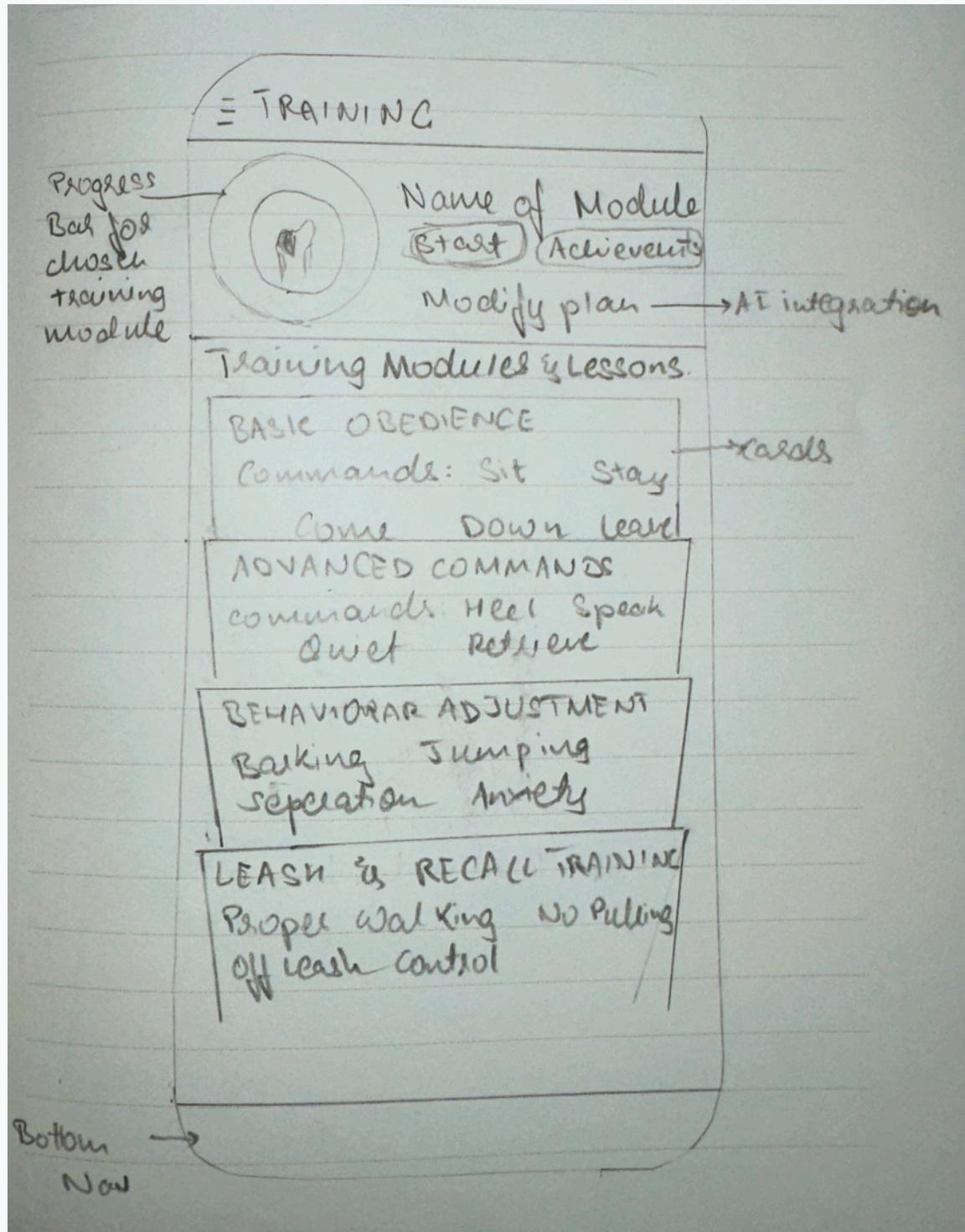
Access: Open from the Core Features Quick Access via the Home Page, Menu Sidebar, or navigation bar.

Features:

- Goal Tracking: Displays primary nutrition goal completion with progress percentage.
- Meal Logging: Log meals linked to health conditions with expandable details.
- Nutritional Insights: Visual breakdown of calories, protein, fats, and carbs over time (weekly/daily view).
- Upcoming Meals: Lists scheduled meals with quick add options for easy tracking.

Quick Actions: Add Meals, View More Nutrition Goals, and Access Detailed Logs.

TRAINING



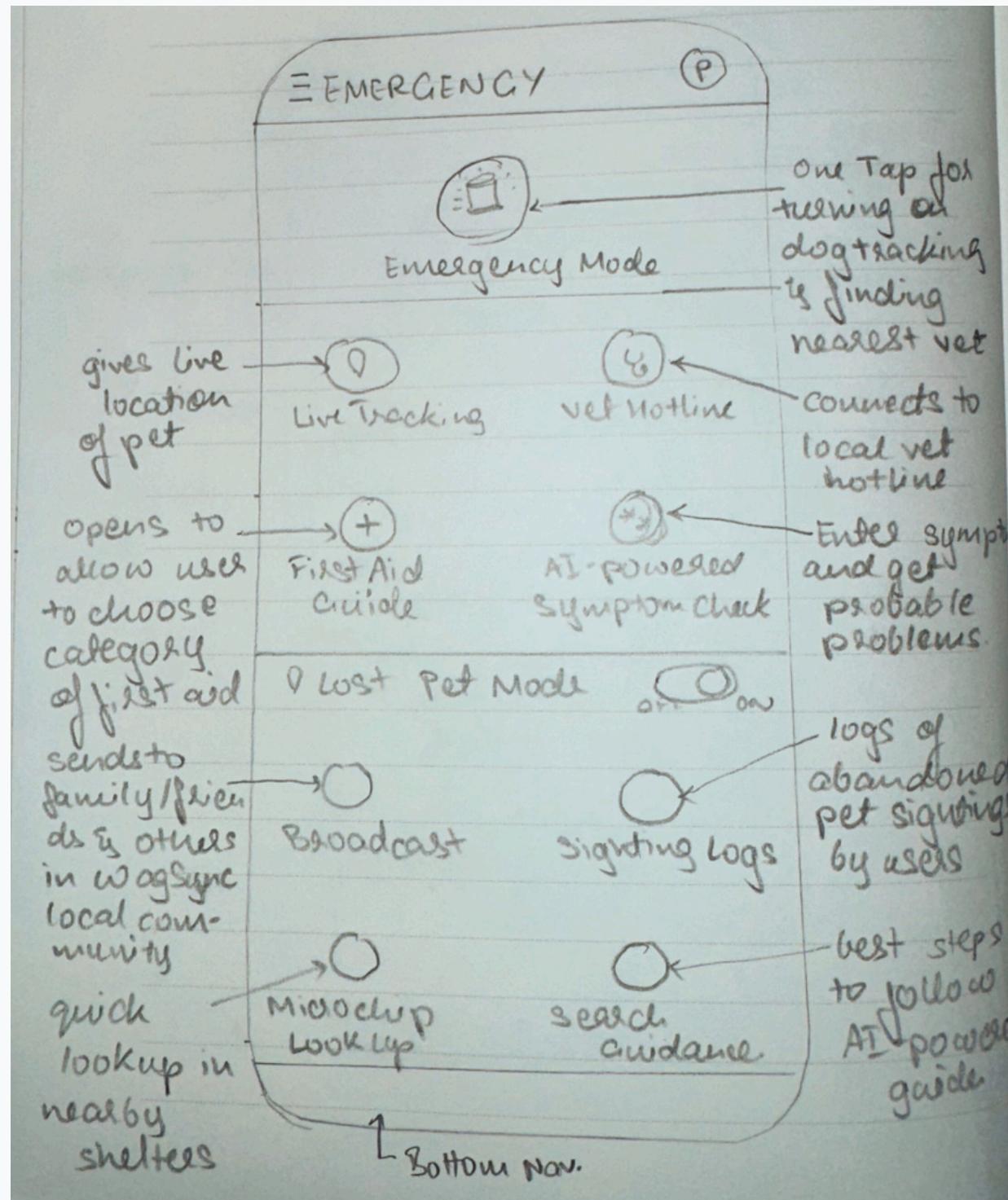
Access: Open from the Core Features Quick Access via the Home Page, Menu Sidebar, or navigation bar.

Features:

- Training Goal Tracking: Displays progress on selected training goals with a percentage indicator.
- Training Modules & Lessons: Categorized into Basic Obedience, Advanced Commands, Behavior Adjustment, and Leash & Recall Training with step-by-step lessons.
- Achievements & Progress: Tracks completed lessons and milestones.

Quick Actions: Start Training, View More Goals, and Track Achievements.

EMERGENCY



Access: Available via Core Features Quick Access from the Home Page, Menu Sidebar, or when Emergency Mode is activated.

Emergency Mode:

- One-tap Emergency Activation for immediate critical actions.
- Live GPS Tracking for real-time pet location updates.
- Vet Hotline Shortcut for instant emergency calls.
- AI-Powered First Aid & Symptom Checker to assess urgency and suggest next steps.

Lost Pet Mode:

- Lost Pet Alert Broadcast sends instant alerts to nearby users, shelters, and vet clinics with pet details and last-seen location.
- Live Community Search & Sightings Log allows users to report sightings with photos, timestamps, and GPS pins.
- Integrated Microchip & ID Lookup checks if shelters or vets have scanned the pet's microchip.
- AI-Powered Search Guidance suggests best search strategies based on pet behavior and breed tendencies.

Quick Actions: Activate Emergency Mode, Track Pet, Report Sighting, and Access First-Aid Guide.

04 | Double Diamond Approach

Figma Wireframes

Let's explore the future of dog care!

Figma Mid-Fidelity Wireframe

Using Double Diamond Approach

01. DISCOVER

Understanding the Problem & Gathering Insights

- Reviewed paper prototypes and identified usability issues (navigation clarity, feature placement).
- Conducted a self-assessment and peer feedback session to spot inconsistencies in the paper sketches.

02. DEFINE

Refining the Concept & Structuring the Wireframes

- Grouped related features into clear sections for better information hierarchy.
- Prioritized essential elements (e.g., quick actions, navigation, and accessibility improvements).
- Ensured consistent layout patterns across screens to maintain UI coherence.

03. DEVELOP

Translating Paper Prototypes to Mid-Fidelity Figma Wireframes

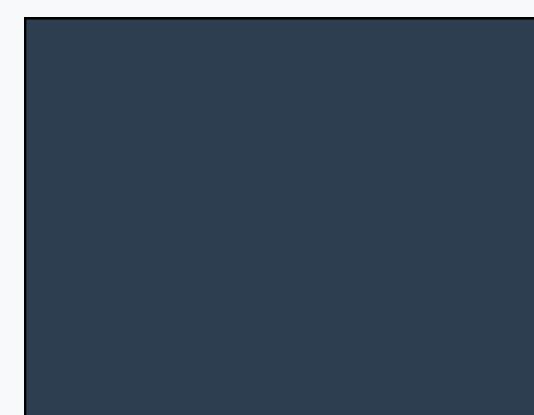
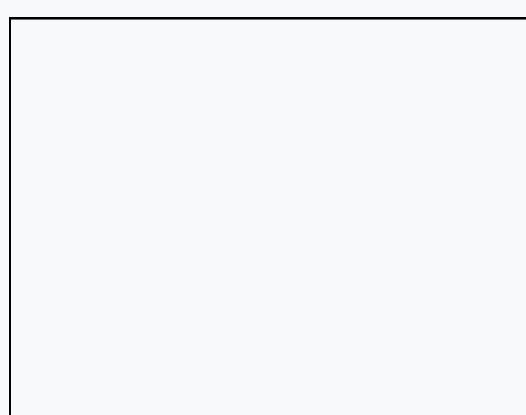
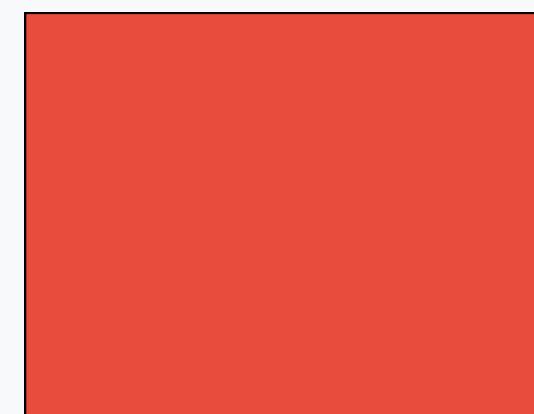
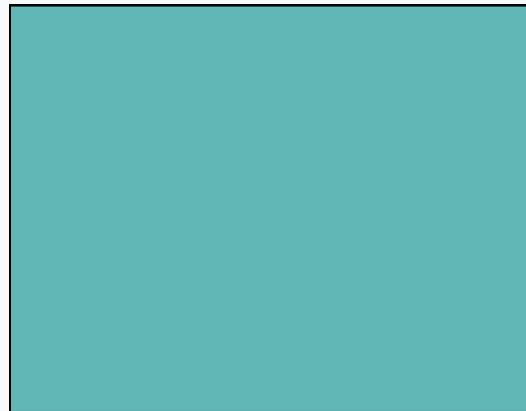
- Created low-fidelity wireframes in Figma, focusing on structure without color or styling.
- Adjusted button sizes, spacing, and alignment for better usability.
- Iterated on the navigation flow to improve user journey and minimize unnecessary clicks.

04. DELIVER

Mid-Fidelity Wireframe Refinements & Final Adjustments

- Added consistent UI components (menus, buttons, input fields) for standardization.
- Introduced grayscale styling and proper spacing for readability.
- Ensured scalability of wireframes by keeping layouts responsive and adaptable for high-fidelity design.
- Prepared the wireframes for user testing before moving to high-fidelity designs.

Color Palette



Primary Color (Brand Identity):

- Teal (#1ABC9C) – Represents trust, health, and technology, used for primary buttons and branding.

Accent Color (For Engagement & Gamification):

- Golden Yellow (#F1C40F) – Warm & energetic, used for highlights, rewards, and progress tracking.

Alert & Emergency Color:

- Coral Red (#E74C3C) – Used sparingly for alerts, emergency notifications, and lost pet features.

Neutral Background & Text Colors:

- Soft White (#F8F9FA) – Clean, readable background.
- Charcoal Gray (#2C3E50) – For text and icons to maintain contrast and accessibility.

Figma Mid-Fidelity Wireframes

The image displays six Figma wireframes for a pet management application, arranged in a grid:

- HOME:** Shows a pet profile (Name, Breed, Age, Weight), an upcoming events section (3 Doc Appointment, 4 Grooming Apmt), and a sidebar with Health, Nutrition, Training, Emergency, and Document icons.
- HEALTH:** Displays an "Upcoming" section with 3 Event 1 - Doc Appointment and 4 Event 2 - Doc Apmt 2. It also includes a Vaccination Tracker (Vaccination 1, Vaccination 2) and Medical Records (Condition 1, Condition 2).
- NUTRITION:** Features a Primary Goal (53%) with a "More Goals" link. It includes a Log Meals section with a chart for Calories, Protein, Fats, and Carbs (Week/Day view). An Upcoming section shows 3 Meal 1 and 4 Meal 2.
- DOCUMENTS:** A document library with a search bar and eight folder icons labeled Folder 1 through Folder 8.
- TRAINING:** Shows a Leash Training progress (53%), Training Modules and Lessons (Basic Obedience, Advanced Commands, Behavior Adjustment, Leash & Recall Training), and a sidebar with Training icons.
- EMERGENCY:** An Emergency Mode section with a red alert icon. It includes Quick Actions (Location, Stethoscope, Plus, Email), Lost Pet Mode, Broadcast, Sighting Logs, Microchip Lookup, and Search Guidance.

Each wireframe includes a header with a menu icon and a dog profile picture, and a footer with navigation icons.

How WagSyncAI Meets User Needs

01. Seamless Health & Nutrition Tracking

- Automated vet record syncing & medication reminders ensure pet health is well-managed.
- AI-powered meal planning & barcode scanning help owners provide optimal nutrition.

02. Effective Training & Behavior Assistance

- Step-by-step training modules support obedience and advanced skills.
- AI-powered bark & body language analysis enhances communication with pets.

03. Emergency & Lost Pet Support

- One-tap Emergency Mode provides instant access to critical tools like live GPS tracking & first-aid guides.
- Lost Pet Mode broadcasts alerts & enables community-based search efforts for faster recovery.

04. Community & Social Engagement

- Find nearby dog parks & set up playdates for socialization.
- Community forums & chat groups allow knowledge-sharing among dog parents.

05. Personalized Smart Routine Management

- Customizable feeding, potty, and exercise reminders simplify pet care.
- AI-adaptive walking route suggestions ensure optimal outdoor experiences.