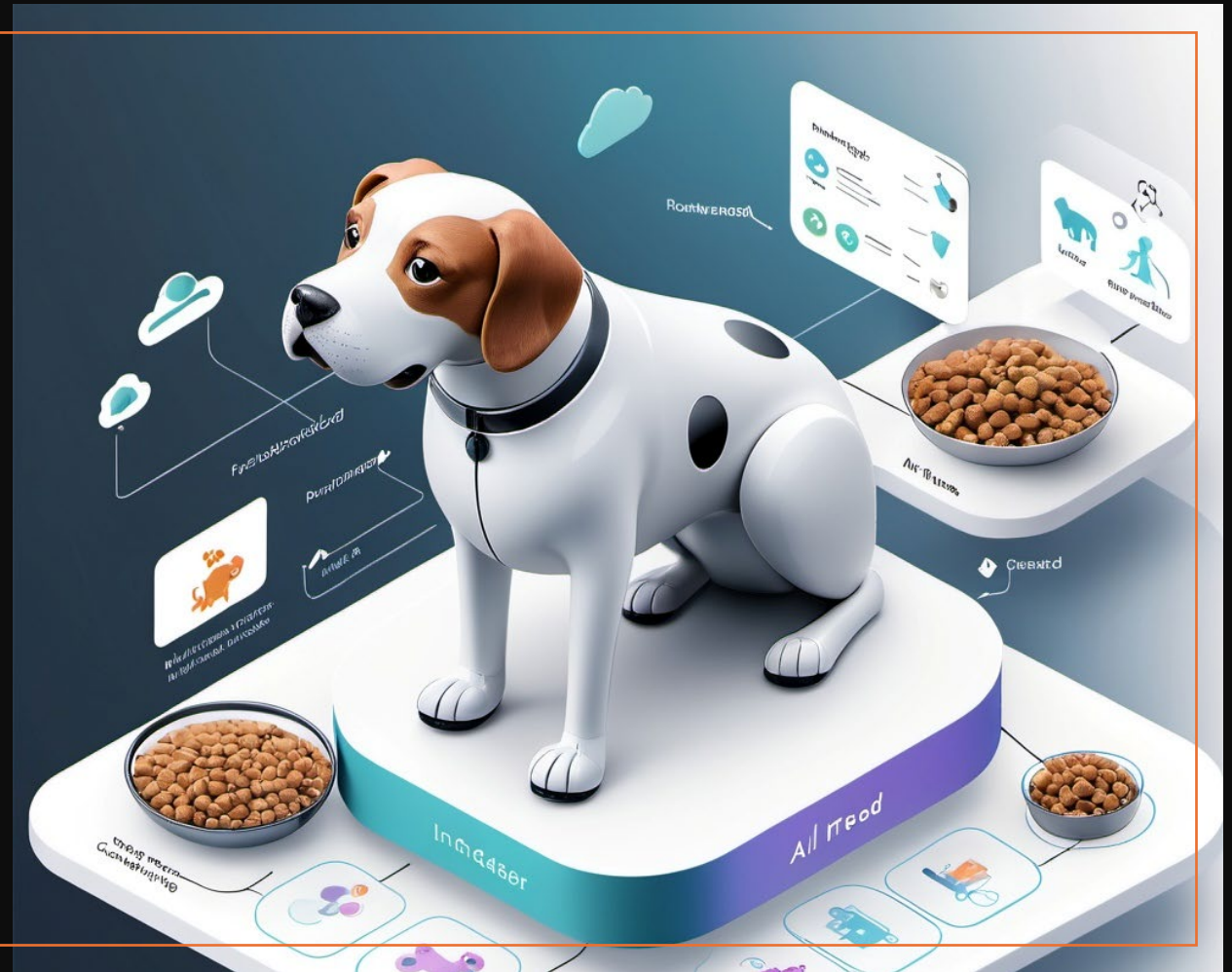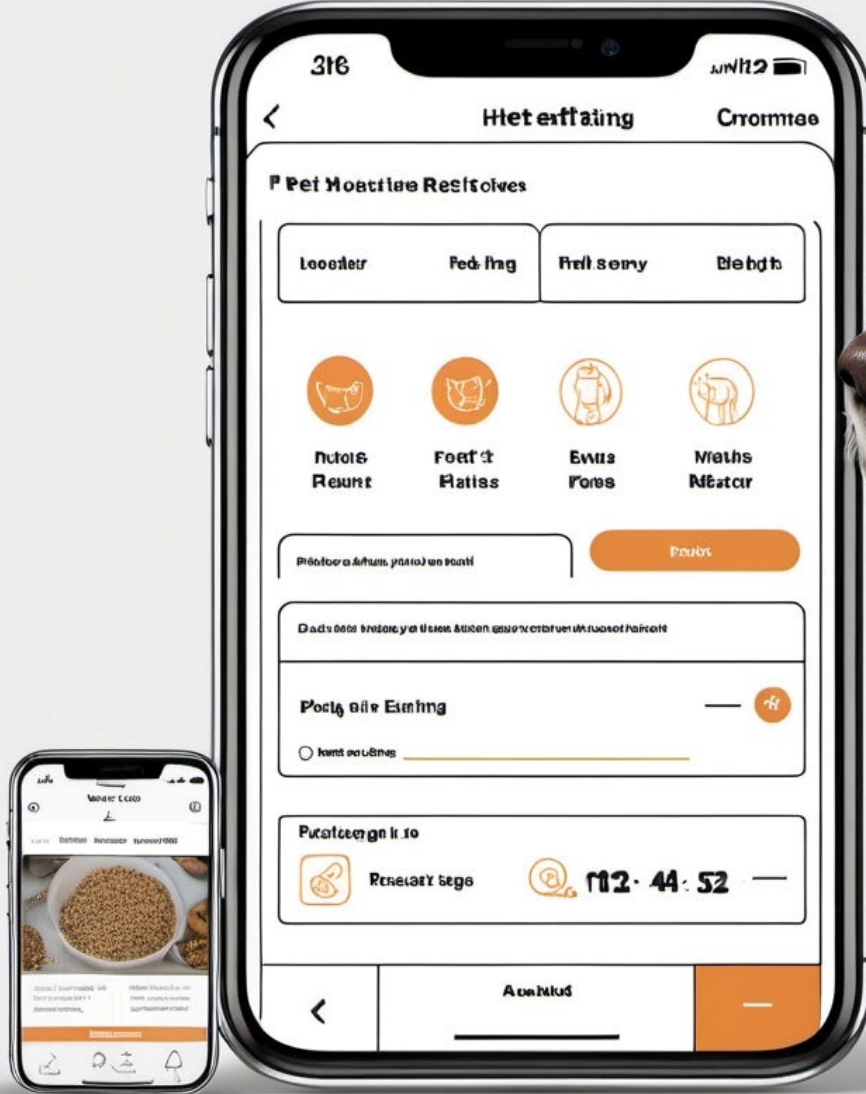# Discovery Workshop Approach for Smart Cat/Dog Feeder MVP

Objective: Outline an Agile BA-driven approach to gathering requirements for the development of an intelligent cat/dog feeder with AI capabilities.

BY NAN ROSS - CSM, SAFe 6.0 SM & PMI-ACP

Project Overview

Intelligent Cat/Dog Feeder MVP

Business Objective:

- Deliver an MVP for an app connected to the smart feeder hardware

- Support user-centered design to align with buyer (end-user) needs

- Ensure Agile methodologies enable quick feedback and iterations

- Hardware Features: Food dispenser system (wet & dry), Camera, Scales, AI/ML capabilities, Internet connectivity

Discovery Workshop Goals

Workshop Goal:

Understand user needs, personas, and app functionality to support the smart feeder hardware MVP

Workshop Structure:

- **Preparation:** Research on smart pet devices, identify stakeholders (product owners, developers, and end users), and gather initial data

- **Workshop Agenda:**
  - Introductions & Alignment on Project Vision
  - Defining Buyer Personas
  - Mapping User Journeys
  - Feature Prioritization
  - Define MVP Scope

- **Post-Workshop:** Synthesize key findings into actionable requirements and artifacts

Key Discovery Outputs

Persona 1:
Working Pet Owner

Persona 2:
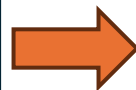Tech-Savvy Pet Enthusiast

Persona 3:
Senior Pet Owner

User Journeys

Journey 1:
Scheduling feeding time

→

Journey 2:
Monitoring pet's real-time video feed and receiving notifications

→

Journey 3:
Analyzing pet behavior trends from AI/ML data

→

Journey 4:
Responding to deviations in pet eating habits or health trends flagged by AI

Feature Prioritization

Core Features for MVP:

- Food Dispensing Control
- Real-Time Camera Feed
- AI-Powered Insights
- Notification System
- Historical Data View

Additional Features:

- Health integration
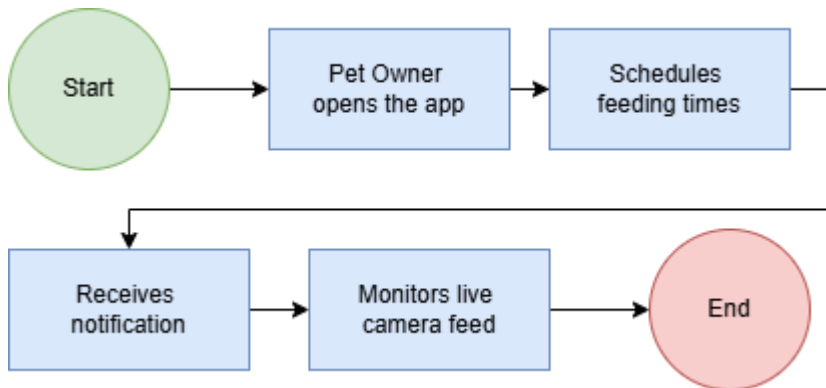- Voice commands
- Enhanced AI

Key Business Analysis Outputs
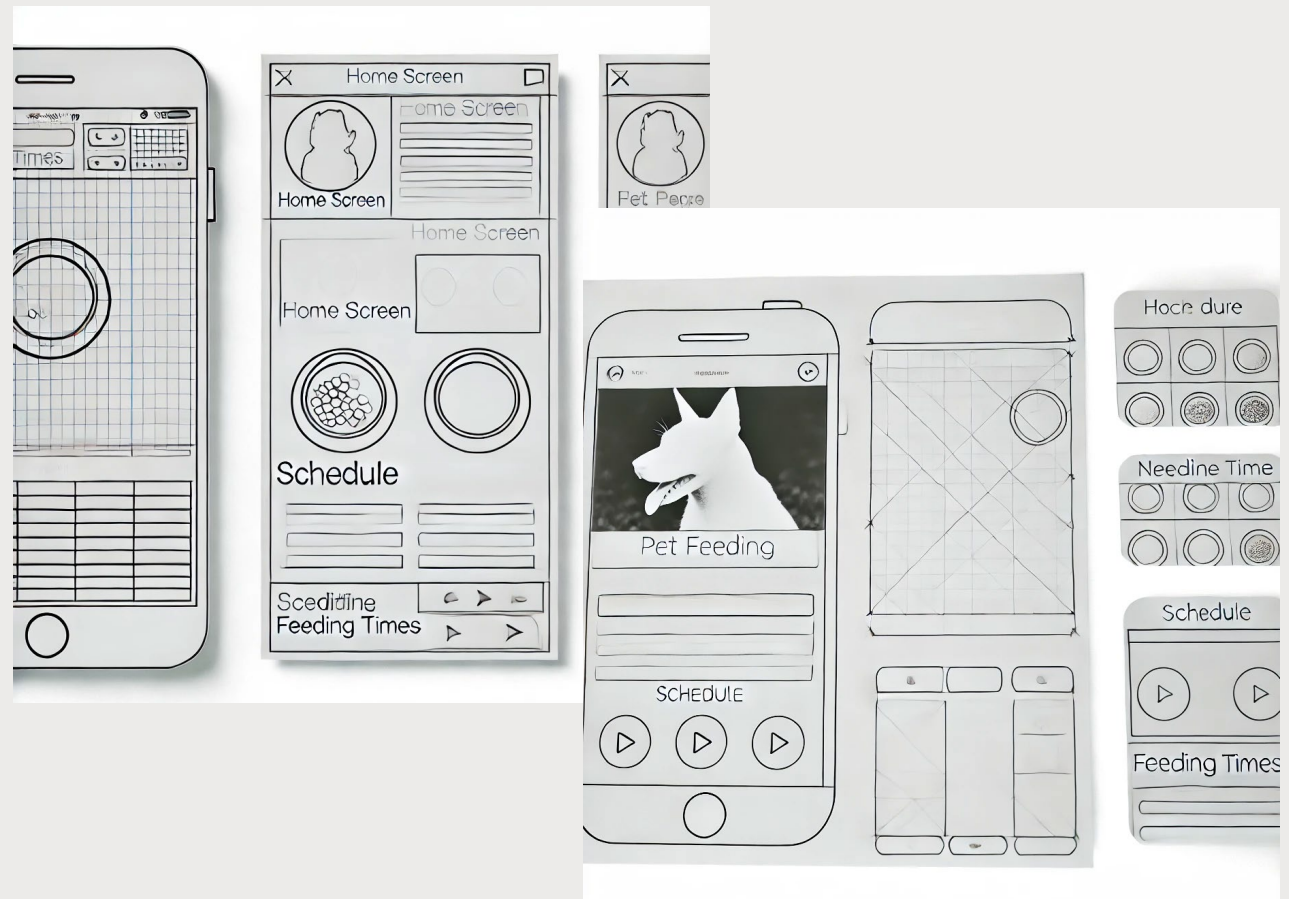
User Stories:

As a pet owner, I want to schedule feeding times so that I can ensure my pet is fed even when I'm not home.

As a pet owner, I want to receive notifications when my pet deviates from their normal eating pattern so I can monitor their health.

Process Flow:

Wireframe:

Final Output and Artifacts

Target Output for Delivery Team:

Product Backlog with Prioritized User Stories

Wireframes and Mockups

AI/ML Integration Plan

User Stories with Clear Acceptance Criteria

Agile BA Process

1.Sprint Planning & Agile Execution:

- Refining backlog

- Planning sprints

2. User-Centered Design:

- Collecting feedback

- Running usability tests

3. Continuous Feedback & Improvement:

- Enhancing features based on user feedback

Conclusion

Approach: Leveraged Agile methodologies and user-centered design to define key requirements for MVP.

Next Steps: Development team equipped with artifacts and roadmap for MVP delivery.