Poultry Farming Module

Purpose: Extend AOFS to monitor, document, and optimize poultry farming operations, integrating both automated sensor data and human input.

Key Functions

- **Animal Health & Veterinary Records**
  - Track vaccinations, medications, and treatments
  - Record illnesses, recovery, and veterinarian visits
- **Feeding & Watering**
  - Automatic or manual feed/water schedules
  - Logging feed consumption and water usage
- **Production Metrics**
  - Egg production, weight gain, and growth tracking
  - Mortality or culling records
- **Environmental Monitoring**
  - Temperature, humidity, and ventilation in coops or pens
  - Optional CO_2 or ammonia sensors
- **Human Input Logging**
  - Staff manually record activities like cleaning, bedding changes, or inspections
  - All events are timestamped, linked to specific pens or groups, and synchronized with Farm/HQ controllers

Integration Guidelines

- Must comply with AOFS **offline-first architecture**, syncing to Farm or HQ controllers when connectivity is available
- Sensor and human-input data should be logged in standardized AOFS formats
- Optional AI or analytics modules can provide predictive insights for feed optimization, health alerts, or production forecasting
- Must not interfere with core AOFS irrigation or control compliance

Benefits

- Enables data-driven optimization of poultry management
- Facilitates health monitoring, regulatory compliance, and record-keeping
- Supports research on feeding, housing, or environmental conditions
- Allows farms to run experiments on production techniques, feed types, or climate control strategies

References

- [Livestock / Animal Husbandry Module](#)
- [Sensors & Environmental Monitoring](#)
- [Data Models & Documentation Standards](#)

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