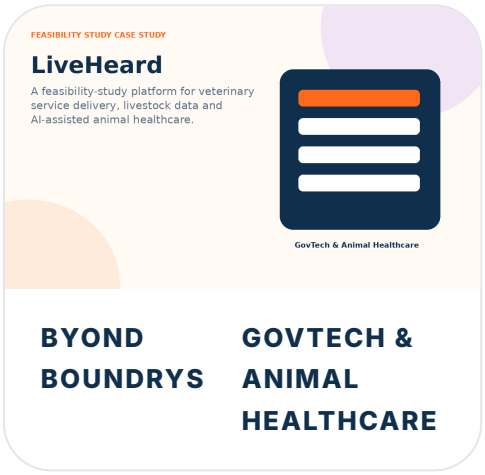
FEASIBILITY STUDY CASE STUDY

LiveHeard

A feasibility-study platform for veterinary service delivery, livestock data and AI-assisted animal healthcare.

LiveHeard was developed as a feasibility study POC for India's animal husbandry ecosystem, with the goal of exploring how government veterinary services, livestock healthcare, and animal welfare operations can be digitized through a unified enterprise portal. The platform was designed for multiple stakeholder groups, including government administrators, Chief Veterinary Officers, veterinary doctors, animal owners, field teams, and regulatory institutions.



> **Project classification:** This feasibility-study proof of concept explored a unified digital portal for animal-husbandry services and AI-assisted veterinary workflows; it was not a government deployment.

INDUSTRY	CLIENT TYPE	PROJECT STAGE
GovTech & Animal Healthcare	Animal husbandry digitalisation initiative	Proof of concept
EVIDENCE	**DELIVERY SCOPE**	
Projected	GovTech portal, veterinary workflows and AI copilot	

Demonstrated the feasibility of a unified animal-husbandry portal

The feasibility study demonstrated how public, clinical and administrative workflows could coexist in one portal.

Centralised administrative and service workflows

Appointments, grievances, animal records and service activity were organised into structured digital workflows.

Improved management visibility through role-based dashboards

Role-based dashboards demonstrated how administrators could review service activity at different organisational levels.

01 / BUSINESS CONTEXT

Who needed the solution

LiveHeard was developed as a feasibility study POC for India's animal husbandry ecosystem, with the goal of exploring how government veterinary services, livestock healthcare, and animal welfare operations can be digitized through a unified enterprise portal. The platform was designed for multiple stakeholder groups, including government administrators, Chief Veterinary Officers, veterinary doctors, animal owners, field teams, and regulatory institutions. The objective was not only to digitize existing veterinary workflows but also to evaluate how AI could support faster animal health decision-making, operational visibility, stock planning, and personalized care delivery. India's animal husbandry ecosystem involves large-scale service delivery across states, districts, hospitals, doctors, animal owners, vaccination programs, medicine/feed availability, grievances, appointments, and compliance workflows.

02 / CHALLENGE

What needed to change

The main challenge was that animal husbandry operations require coordination across multiple administrative levels, veterinary institutions, doctors, animal owners, and field service workflows.

Veterinary services were distributed across departments and field teams	Veterinary service delivery is often spread across departments, districts, hospitals, and field teams.
Animal records and service histories lacked a unified workflow	Animal medical history, vaccination status, treatment records, and feed/medicine assignments may not always be centrally available.

Appointments and grievances were difficult to track	Appointment booking and grievance handling can become difficult to track without a structured digital workflow.
Management lacked real-time service visibility	Upper management and CVO-level officers may need regular updates but may not have real- time visibility into field activity.
Veterinary teams needed quicker access to trusted knowledge	Veterinary doctors often need quick access to clinical knowledge, disease references, and treatment recommendations during diagnosis.

03 / WORKFLOW TRANSFORMATION

Before and after

Previous workflow

- Veterinary services were distributed across departments and field teams
- Animal records and service histories lacked a unified workflow
- Appointments and grievances were difficult to track
- Management lacked real-time service visibility
- Veterinary teams needed quicker access to trusted knowledge

Structured workflow

- Digitise service delivery
- Support clinical knowledge access
- Provide management dashboards
- Coordinate operations and resources
- Review structured outputs

04 / SOLUTION

How we approached it

We designed LiveHeard as an AI-enabled animal husbandry digitalization portal with both operational and clinical intelligence layers. The solution combined digitized veterinary workflows, secure governance controls, role-based dashboards, public service access, animal healthcare records, AI-assisted diagnostics, RAG-based clinical support, stock intelligence, and personalized feed/medicine recommendations.

01

Digitise service delivery

Create structured public, hospital, field and administrative workflows.

02

Support clinical knowledge access

Use RAG to retrieve veterinary references for professional review.

03

Provide management dashboards

Give administrators and officers role-specific visibility into activity and service status.

04

Coordinate operations and resources

Support appointments, grievances, stock information and alerts within one platform concept.

05 / EXAMPLE WORKFLOW

From input to reviewable output

1 **Digitise service delivery** → 2 **Support clinical knowledge access** → 3 **Provide management dashboards** → 4 **Coordinate operations and resources**

5

6

Review clinical references → Veterinary or administrative action

06 / DELIVERY SCOPE

What the delivery covered

Business and product workflow

- AI-Assisted Animal Healthcare
- RAG-Powered Clinical Copilot
- AI Chatbots for CVO and Upper Management

AI, data and automation

- Structured AI workflow
- Data processing and validation

Application and cloud engineering

- React
- Docker
- Nginx

Scope boundary

This was a feasibility-study proof of concept, not an adopted government system. Veterinary and administrative outputs remain subject to professional review.

07 / ARCHITECTURE AND CONTROLS

How the system is organised

React

Docker

Nginx

TypeScript

Professional clinical review

AI-assisted veterinary knowledge supports qualified professionals and does not replace clinical judgement.

Role-aware workflows

Public users, doctors, officers and administrators receive different workflow and dashboard access.

Feasibility boundary

The concept demonstrates technical feasibility and must not be presented as government adoption.

08 / BUSINESS VALUE

Expected operational value

1

Demonstrated the feasibility of a unified animal-husbandry portal

Projected

The feasibility study demonstrated how public, clinical and administrative workflows could coexist in one portal.

2

Centralised administrative and service workflows

Projected

Appointments, grievances, animal records and service activity were organised into structured digital workflows.

3

Projected

Improved management visibility through role-based dashboards

Role-based dashboards demonstrated how administrators could review service activity at different organisational levels.

4

Faster access to veterinary reference knowledge

Projected

RAG-assisted knowledge access showed how veterinary references could be made easier for professionals to review.

5

A scalable foundation for future district and hospital expansion

Projected

The concept created a foundation for future district, hospital and field-service integrations.

09 / TECHNOLOGY

Technology and component roles

RE **React**
Reviewer or product user interface

DO **Docker**
Containerised deployment

NG **Nginx**
Reverse proxy and production serving

TY **TypeScript**
Typed application engineering

10 / RELATED WORK

Explore related case studies

HEALTHCARE & CLINICAL RESEARCH

Clinical Data Harmonization

Hybrid RAG and fine-tuned small language models for explainable source-to-standard clinical data mapping.

INSURANCE & COMPLIANCE

InsureAI

RAG-based policy review, real-time knowledge retrieval and automated policy-gap analysis.

FINANCIAL ADVISORY & INSURANCE

Sugamta

A unified financial-advisory platform for client portfolios, payment schedules, alerts and AI-assisted document extraction.

Working on a similar challenge?

Discuss the workflow, data, integrations and evidence required for a practical first release.