PROJECT DOCUMENT – ANIMAL TRACKER

TEAM NAME: Team 1

TEAM MEMBERS:

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1. Title – Animal Tracker: AI-Based Domestic Animal Tracking System

This project focuses on developing Animal Tracker, a smart AI-powered website designed to help users track domestic animals, submit rescue requests, monitor real-time map locations, and manage animal information efficiently. The system is built to support pet owners, rescuers, NGOs, and animal welfare groups by offering a unified platform tailored specifically to Indian domestic species and Indian geographical locations.

2. Objective

The primary objective of the Animal Tracker project is to provide a centralized, easy-to-use digital solution for tracking and managing domestic animals in India. Key objectives include:

- Enabling users to track pets on an interactive map using animal emojis.
- Standardizing Indian domestic species (Cat, Dog, Rabbit, Hamster, Birds).
- Offering AI-assisted suggestions, species help, and automated rescue risk assessment.
- Providing a dedicated registration & subscription system for users.

- Replacing manual tracking and outdated rescue reporting methods with an AI-enhanced system.

3. Tools Used

The website was built using Lovable, an AI-powered no-code website generation platform.

Additional AI tools used:

- ChatGPT / OpenAI – Code generation, content writing, design modifications.
- Lovable AI Builder – UI generation, React code creation, final deployment.
- AI Image Tools – Generating Indian domestic animal images used in Gallery and Homepage.

Technologies automatically generated through Lovable:

- React + Tailwind CSS
- ShadCN UI components
- Interactive map integration
- Routing for all pages

4. Methodology

1. Problem Identification – Lack of a centralized, Indian-based system to track domestic animals efficiently.
2. Planning & Requirements – Finalized pages: Home, Track Animals, Add Animal, Rescue, Gallery, About, Register.
3. Prompt Engineering in Lovable – Detailed prompts defined species, locations, pages, images.
4. AI-Generated Code – Lovable produced the full React website.
5. Manual Refinements – Adjusting species filters, locations, Indian content.
6. Testing & Improvements – UI responsiveness, navigation, map markers.
7. Final Deployment – Ready for IBM SkillBuild evaluation.

5. Output

The output is a fully functional, multi-page AI-powered website, featuring:
- Interactive Animal Tracking Map with Indian locations.
- Domestic Species Filters.
- Add Animal System with AI assistance.
- Rescue Request Form with urgency categorization.
- Gallery of Indian domestic animals.
- User Registration + Subscription Plans.
- Indian headquarters & Indian contact details in the About page.

6. Result

The Animal Tracker website successfully demonstrates how AI can simplify and enhance animal welfare operations. Indian users can track animals, submit rescue requests, view galleries, and manage pet details effortlessly. The project showcases the potential of AI in improving animal safety, awareness, and coordination.

7. Conclusion

Animal Tracker illustrates how AI-driven platforms can transform animal care, rescue operations, and pet tracking in India. The system offers real-time mapping, smart rescue workflows, user-friendly animal registration, and a focus on Indian species and locations. This project delivers a scalable and socially impactful solution.

8. Project URL

https://anitrack-indiapet-buddy.lovable.app

9. GitHub Repository

https://github.com/mahreensultana69-prog

https://github.com/maimuna-roshan

https://github.com/maryam2607a-sudo

https://github.com/izzzoha3

https://github.com/nithya8

https://github.com/rida5

https://github.com/SafiyahRabbani