
STRAY WATCH APPLICATION

Shubham Katkar^{*1}, Gangadhar Chougule^{*2}, Nagraj Hunsikatti^{*3}, Shreyas Kotkar^{*4},

Prof. Dr. S.B. Gurav^{*5}

^{*1,2,3,4}Dept. Of Computer Science & Engineering, Sharad Institute Of Technology Collage Of Engineering, Yadrav, India.

^{*5}Guide, Dept. Of Computer Science & Engineering, Sharad Institute Of Technology Collage Of Engineering, Yadrav, India.

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ABSTRACT

Stray Watch is a mobile app that aims to address the growing problem of stray animals in our communities. With Stray Watch, users can take pictures of stray animals and the app will use location data to connect them with nearby animal NGOs that can provide assistance.

The app is designed to be user-friendly and intuitive, with a focus on empowering users to make a real difference in the lives of these animals. In this presentation, we will explore the key features and functionalities of the Stray Watch app, and discuss how it can promote animal welfare and make a positive impact on our communities.

I. INTRODUCTION

The "Stray Watch Animal Project" is a groundbreaking initiative aimed at addressing the challenges posed by stray animals and promoting their welfare through innovative technology and community engagement. Stray animals, often found in urban and rural areas, face numerous hardships, including lack of shelter, food, medical care, and the risk of accidents. The Stray Watch Animal Project seeks to harness the power of modern technology to bridge the gap between concerned individuals, local animal welfare organizations, and the animals themselves. This project envisions the development of the Stray Watch app, a user-friendly and intuitive application designed to serve as a comprehensive solution for animal lovers, volunteers, and organizations dedicated to improving the lives of stray animals. The app's primary objective is to connect users with nearby animal non-governmental organizations (NGOs), making it easier for them to contribute to rescue, care, and rehabilitation efforts. By leveraging the convenience of smartphones and real-time information sharing, the Stray Watch app aims to empower users to be proactive in assisting stray animals and advocating for their well-being.

The Stray Watch Animal Project recognizes the importance of community involvement in tackling the challenges of stray animals effectively. By fostering partnerships between animal NGOs, volunteers, and individuals who care deeply about animal welfare, the project aims to create a united front against the struggles faced by stray animals. Through the Stray Watch app, a sense of collective responsibility and compassion is fostered, promoting positive change for both animals and the communities they inhabit.

II. LITERATURE REVIEW

User needs and preferences: Review literature on the needs and preferences of different stakeholders involved in the Stray Watch app, including users (such as volunteers, donors, and animal lovers), animal NGOs, and local communities. Understand their perspectives, expectations, and motivations, and explore how these factors could inform the design, features, and functionalities of the app.

Community engagement and social impact: Review literature on community engagement strategies and social impact assessment in the context of animal welfare projects. Understand how community engagement can be effectively incorporated into the Stray Watch app to promote local participation, ownership, and sustainability. Explore methods and tools for assessing the social impact of the app, including its potential to create positive changes in the lives of stray animals and the communities they inhabit.

Ethical considerations: Review literature on ethical considerations in the field of animal welfare, including issues related to animal rights, welfare, and protection. Understand the ethical implications of using technology,

such as the Stray Watch app, in the context of animal welfare, and consider how the app can align with ethical principles and guidelines.

LIMITATIONS OF EXISTING SYSTEM

Stray animal watch projects aim to address issues related to stray animals in urban and rural areas. Some limitations of these systems include as Limited Coverage, Data Collection and Analysis, Lack of Integration

PROPOSED SYSTEM MODEL

Objective: To monitor, manage, and reduce stray animal populations through a combination of technology, community engagement, and education.

Components of the System: Mobile Application, Database, Web Portal, Geospatial Mapping, Community Engagement.

III. METHODOLOGY

The methodology encompasses cryptographic key generation—private and public keys—via algorithms like SHA or RSA. A shared ledger documents transactions between blocks, facilitated through a peer-to-peer network. The transaction process entails hash encryption, with proof of work validating the previous hash. Mining determines the selected block for transaction purposes.

IMPLEMENTATION AND ANALYSIS

Implementing and analyzing a stray animal watch system involves several steps, from developing the technology to evaluating its impact. Here's a guide to the implementation and analysis process is System Development, System Testing, Deployment, User Adoption and Engagement, Data Collection and Analysis, Evaluation and Improvement

Implementing a stray animal watch system is an ongoing process that requires dedication, adaptability, and a strong focus on the well-being of both animals and the community. Regularly analyzing data and seeking feedback from users and stakeholders will be essential for making informed decisions and driving continuous improvements in addressing the issue of stray animals.

IMPLEMENTATION DETAILS

The Stray Watch Application was developed for Android using Android Studio, prioritizing user-friendliness. Google Maps and Google Places APIs were integrated for real-time mapping and locating nearby animal welfare organizations. A cloud-based backend ensured secure data storage and transmission. Machine learning and computer vision technologies enabled image recognition, enhancing animal assessment. Social sharing features encouraged community engagement and advocacy. Extensive testing was conducted, and performance was optimized for various Android devices. A feedback mechanism allowed users to contribute to ongoing improvements. The application was designed to be dynamic and user-centric, adapting to evolving user and NGO needs.

IV. RESULT AND COMPARATIVE STUDY

The Stray Watch Application has shown substantial adoption, with users actively engaging. Reported cases predominantly address, providing valuable insights for NGOs. Rapid response times, demonstrate the application's effectiveness in facilitating rescue operations. Social media growth, reflects the development of a vibrant user community. The advocacy feature is highly popular, contributing to increased engagement and awareness. user-suggested enhancements were successfully integrated, reflecting a commitment to user feedback. representing an opportunity for future development. Overall, the Stray Watch Application exhibits potential to make a significant impact in stray animal welfare.

V. CONCLUSION

The project's objectives include promoting animal welfare, assessing population and distribution, identifying hotspots and risk factors, supporting rescue and rehabilitation efforts, engaging the community, and building partnerships. These objectives provide a clear direction for the project's activities and desired outcomes.

The experimental setup will involve selecting a study area, choosing appropriate data collection methods, implementing a sampling strategy, defining data variables, analyzing the collected data, and ensuring ethical

considerations throughout the project. These elements will contribute to generating valuable data and insights to inform evidence-based interventions and strategies.

VI. FUTURE WORK

Long-term Monitoring: Implement a long-term monitoring program to track the changes in stray animal populations, behavior, and health conditions over time. This would provide valuable data to assess the effectiveness of interventions and identify emerging trends or challenges.

Data Integration and Analysis: Explore advanced data integration and analysis techniques, such as machine learning or spatial modeling, to gain deeper insights into the factors influencing stray animal populations and their distribution. This could help in predicting hotspots, identifying key risk factors, and optimizing resource allocation.

Collaborative Data Sharing: Establish partnerships with other research institutions or organizations working on similar issues to facilitate collaborative data sharing and knowledge exchange. This could lead to a broader understanding of stray animal dynamics and the development of more effective strategies across different regions.

Policy and Advocacy Efforts: Continue advocating for improved animal welfare policies and regulations at the local, regional, and national levels. Collaborate with policymakers, lawmakers, and relevant authorities to strengthen animal protection laws, enforce existing regulations, and promote responsible pet ownership.

VII. REFERENCES

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