LOST CATS AND DOGS REPORTING AND REGISTRATION SYSTEM FOR IMUS ANIMAL POUND WITH BREED IDENTIFIER

An Undergraduate Thesis
Submitted to the Faculty of the
Department of Computer Studies
Cavite State University
Imus Campus, Cavite City

In partial fulfillment
of the requirement for the degree of
Bachelor of Science in Computer Science

SALES, MERLIN MIGUEL C.
DE JUAN, MARTIENE ANN
PEREZ, ACE J.
July 2023

ABSTRACT

SALES, MERLIN MIGUEL C., DE JUAN, MARTIENE ANN F., PEREZ, ACE J., LOST CATS AND DOGS REPORTING AND REGISTRATION SYSTEM FOR IMUS ANIMAL POUND WITH BREED IDENTIFIER. Undergraduate Thesis. Bachelor of Science in Computer Science, Cavite State University, Imus City, Cavite. July 2023. Adviser. Ms. Grace S. Ibañez

This study, titled "Lost Cats and Dogs Reporting and Registration System for Imus Animal Pound with Breed Identifier," addresses the critical need for efficient stray animal management in Imus Animal Pound. It proposes a dual-platform system: an Android application enabling users to report stray animals and identify their breeds digitally and a web-based animal registration system facilitating efficient animal tracking. The study relied on the insights gathered from potential adopters, Imus City Animal Pound officials, and IT experts, coupled with a review of pertinent literature.

The Prototyping Development Cycle directed the creation of both platforms, with TensorFlow and Python instrumental in training models for breed identification. The application was developed using Android Studio and Java Language, while HTML, CSS, JavaScript, Phpmyadmin, and SQL underpinned the web-based registration system. The system was assessed across multiple parameters - functionality, usability, reliability, efficiency, and portability - with respondents drawn from relevant stakeholders.

The system demonstrated good overall performance, with an average rating of 3.18 in functionality, 3.60 in usability, 3.35 in reliability, 3.42 in efficiency, and an impressive 3.87 in portability. The study concluded that the developed system effectively met its objectives, indicating its potential to streamline animal management in the Imus Animal Pound. This approach is valuable for the local government and broadly applies to similar entities managing stray animals. Despite the proficient ratings, the research underscores the scope for continuous system improvements for optimal utilization.