

# AUTOMATED STRAY CAT AND DOG RESCUE SYSTEM

*stray cat and dog rescue system (SCADRS) is a non-profit and simple platform for adopting and rescuing stray cats and dogs. It can manage animal and user data with high efficiency, timely and low cost.*

## INTRODUCTION

due to the accelerated pace of life in recent years, people's pressure has increased, and they have no time and space to take care of pets, so the number of families who abandon pets increases, and more and more stray animals not only affect the lives and even survival of animals. Relying on the advantages of the Internet, combining animal adoption and sponsorship with it to develop a network-based pet adoption and sponsorship system. This adoption system manages user and stray animal information.

### I. SYSTEM DESIGN

This phase involves the system design methodology, functional diagrams, UML diagrams, requirements analysis, and the front-end and back-end design process of the student management system. Some parts are omitted.

#### a. Requirement Analysis

The basic requirement for designing SCADRS is that every user have their own account and can implement adoption with a stray animal. And administrator have the biggest authority to change any information.

#### b. Database Design

A physical data model is a database-specific model that represents relational data objects (for example, tables, columns, primary and foreign keys) and their relationships. A physical data model can be used to generate DDL statements which can then be deployed to a database server. The physical data model of the system is shown in figure 1.

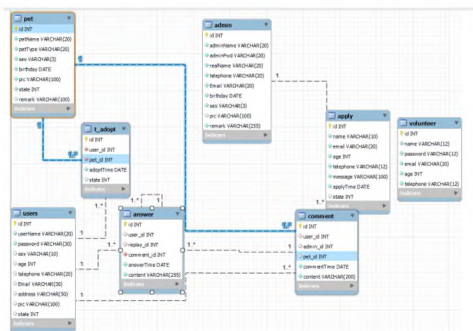


Рис. 1 – Physical Data Model

## II. TECHNOLOGIES USED

### a. java

Java is an object-oriented programming language. It not only absorbs various advantages of C++ language, but also abandons the incomprehensible concepts of multiple inheritance and pointers in C++. Therefore, Java language has two characteristics of powerful functions and simplicity and ease of use. As a representative of static object-oriented programming language, Java language perfectly implements object-oriented theory, allowing programmers to perform complex programming in an elegant way of thinking.

### b.SSM

The SSM (Spring+SpringMVC+MyBatis) framework set is composed of two open source frameworks, Spring and MyBatis (SpringMVC is part of Spring), and is often used as a framework for web projects with simpler data sources.

### c. SQL

MySQL is a relational database management system developed by the Swedish MySQL AB company and is a product of Oracle. MySQL is one of the most popular relational database management systems. In terms of WEB applications, MySQL is one of the best RDBMS (Relational Database Management System) application software.

## III. CONCLUSION

The purpose of this system is to better solve the problem of stray cats and dogs and find adopters more quickly and efficiently. And this system can save social resources, manpower and material resources, and better manage user information and animal information. However, of course, it is also necessary to gradually improve the management system and adoption plan with a more perfect algorithm to give users a better experience.

1. Li Gang. Crazy Java Lectures (2nd Edition): Electronics Industry Press, 2014: 2

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