Database Management System CSE-302

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Computer Science and Engineering (CSE) Military Institute of Science and Technology (MIST)

Project Title

SNIFF-N-PAWS (Foster Home for Pets)

Group -01

Section-A

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Project Description

- Our primary objective is to create an online management system for an organization that provides a nurturing environment for pets who need special attention and shelter.
- Integrating a Database Management System would make cataloging the animals of the shelter based on their various traits and type more efficient and faster.
- Our project also aims to digitalize the entire adoption system for simplicity and ease of access for customers.
- Hence, wide spreading crisis care for animals in disastrous times i.e., pandemic and natural adversities.
- To summarize the whole project it simply shows how beneficial the real life implement will be. For a betterment of the animals around us, we can implement the project further

Literature Reviews

Our project primarily revolves around giving care to pets and for that purpose we reviewed

two papers:

1. Case Study: DBMS Pet Shop

2. Pet Care Management System Capstone Project Document

1. Case Study: DBMS Pet Shop

1.1 Abstract

Creating a user-friendly interface that utilizes database management system to make operations in the pet shop efficient and real time in terms of orders, services and sales. It would be an automated companion of the owner to make operations

inside business seamless as possible.

1.2 Outcome

Records are kept of the employees that removes redundancy & inconsistency.

Admin can oversee the entire system and grant privileges according to need.

Product and service managing is done in multiple level to divide the workload.

Bill generation and payment are fully automated.

Integrating database makes it reliable.

Tool Used 1.3

Front End and Backend: Microsoft Visual Basic 6

Database: Microsoft Access

1.4 Limitation

Limited services of MS Access in expanding the database.

MS Visual Basic 6 is comparatively older than current development tools that

offer much more ease of access.

Animals are not categorized based on their traits and species.

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2.Pet Care Management System Capstone Project Document

2.1 **Abstract**

The aim is to develop and improve the management system in a pet hospital. The pet care management system will perform record handling of pets, monitor pet health, provide medical history, generate reports of pets and provide expiry

notification for different information.

2.2 Outcome

Client information and records as well as pet's records are kept in an organized

way.

Consultation services aid a lot in the upbringing of the pets.

Medical history helps to discern the symptoms of an unhealthy pet quickly.

Medicine archives are handled neatly by the database management system.

Client and patience scheduling are done efficiently.

Tool Used 2.3

Front End and Backend: HTML, CSS, JavaScript

Database: PHP and Oracle

2.4 Limitation

Hardware specifications and requirement needed.

Needs a significant power from the computer.

Data security/ integrity may be compromised.

Only two types of targeted users.

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List of features:

The core features of this project are categorized into three types or privileges given to the admin, staffs or veterinarian and the customers respectively. They are as follows:

Admin Privileges:

- Monitoring the entire system and its employees.
- Managing records.
- Making changes and updates to the system.
- Managing donations and adoptions.
- > Managing prices and service rates.
- ➤ Keeping track total daycare services of customer and rescued animals.
- > Managing rescuer info, cabin info.

Veterinarian Privileges:

- ➤ Having their own profile that will keep track of their history with the organization.
- > Finding his own shift and schedule.
- > keeping track the animal he treats in which day.
- > treating daycare and rescued animal.
- ➤ Able to insert animal health record and diseases.
- > Deciding which animal will insert in which cabin based on their health record and diseases.

Customer Privileges:

- ➤ Customers can have their own profile that will keep track of their history with the organization.
- > Overseeing all Day-care services.
- > Donating through the website for the organization.
- > can give feedback through the website for the organization's cause.
- ➤ Consulting with the management through customer care.
- ➤ Choosing whether to provide a foster home or adopt.

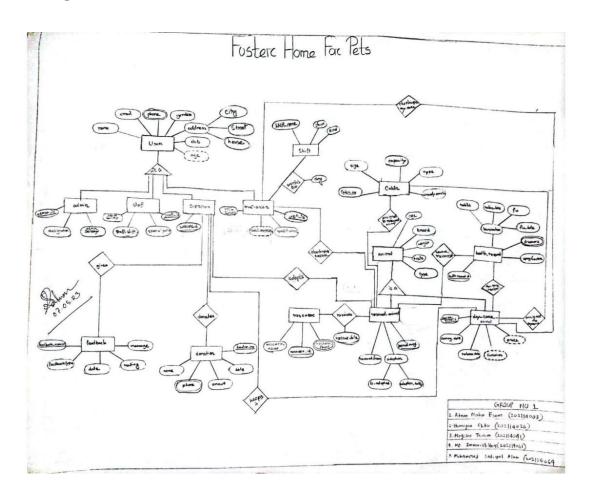
Design

Possible Users

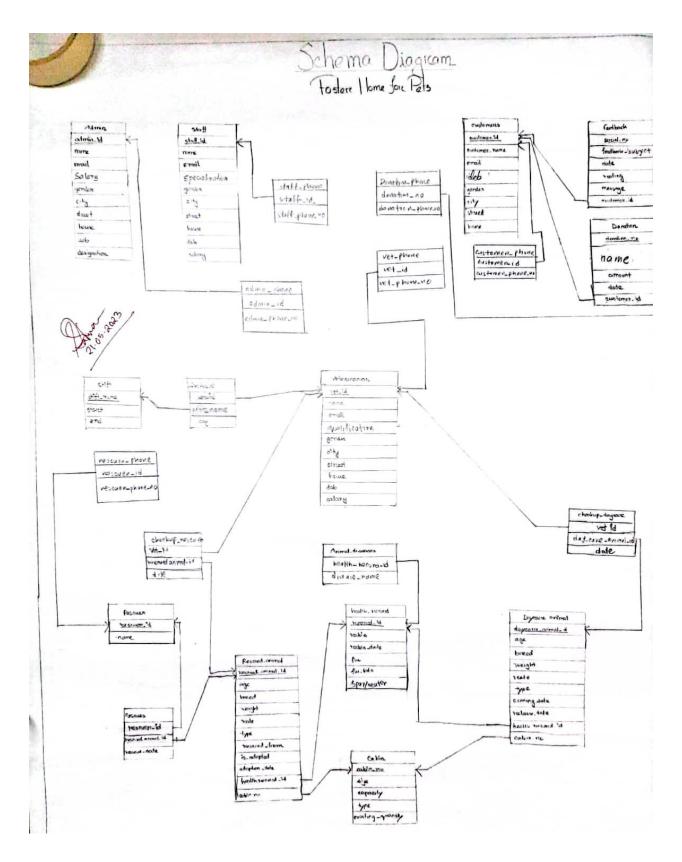
Our main targeted users are the people who want to use the foster care services provided by this system. However, the entire system will be maintained by a system administrator. Moreover, there will be staffs for different care giving and services. The veterinarians will also have their own accounts. So, there are mainly **three** users in our system:

- Admin
- Customer
- Staffs or Veterinarian

ER Diagram



Schema Diagram



Implementation

Features And Functionalities

Functionalities of Admin

- Admin can login through his email and password
- Admin can insert, delete, update of all users
- ➤ Admin can see details info about all users
- Admin can manage customer prices and service rates
- Admin can search any staff or customer from their information table
- > Admin can handle the donation information

Functionalities of Veterinarian

- Veterinarian can login through his email and password
- ➤ He can find his own shift and schedule.
- ➤ He can keep track the animal he treats in which day.
- ➤ He treats daycare and rescued animal.
- ➤ He can able to insert animal health record and diseases.
- ➤ He can decide which animal will insert in which cabin based on their health record and diseases.

Functionalities of Customer

- Customer can login through his email and password
- ➤ He can oversee all Day-care services.
- > He can donate through the website for the organization.
- ➤ He can give feedback through the website for the organization's cause.
- ➤ He can consult with the management through customer care.
- ➤ He can choose whether to provide a foster home or adopt.

Limitation:

- 1. Donation system is not fully online. Anonymous donations are not handled perfectly as online banking could not be implemented.
- 2. Security vulnerabilities lie in the log in feature.
- 3. Data abstraction and filtering are not present.
- 4. Flow of options are not fully functional.

Future Scopes:

- 1. Online Banking could be implemented in the donation system.
- 2. Email or SMS authentication could be used for verification of user.
- 3. Data abstraction can be used for making the website compact and user friendly.
- 4. Cookies can be used to ease user experience.

Tools

- Front End: HTML, CSS 3, firebase, tailwind, daisyui, ES-6, Aos, axios,
 TypeAnimation and React js
- Back End: Node.js, Express, cors, oracledb
- · Database: Oracle

References

Case Study: DBMS Pet Shop

URL:https://www.scribd.com/document/471004890/Case-StudyDBMS-Pet-Shop

Pet Care Management System Capstone Project Document URL:

https://capstoneguide.com/pet-care-management-systemcapstone-project-document/?fbclid=lwAR33zxn1EhkhRL6X79IrWViSrcxBLk3KLPoXhRXDevFafoNELIMuBOh tZc