



CS351 - Human Computer Interaction

Second Semester 1445-2024

Phase Number: 1

Topic: Pet Shop System

Project's Name: Pets Health

Section: 42S

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Interdiction:

Pet shops are establishments that play a significant role in the acquisition and distribution of pets, such as dogs, cats, birds, reptiles, and small animals. While many pet shops prioritize the well-being of their animals, certain health issues can arise in these environments. It is crucial to address these concerns to ensure that pets are healthy, happy, and provided with the best possible care.

One of the primary health issues associated with pet shops is the potential for infectious diseases. Animals from various sources are often housed together, increasing the risk of transmitting infections. Common diseases include respiratory infections and parasites like fleas and ticks, gastrointestinal issues, and contagious skin conditions. These diseases can be spread among nearby animals, making it essential for pet shops to maintain strict hygiene practices and provide routine veterinary care.

The purpose of our pet shop healthcare system is to revolutionize pet health management practices within pet shops. By leveraging advanced technologies, including artificial intelligence and real-time health monitoring, our system aims to provide comprehensive and proactive care for pets. It will collect and analyze real-time health data, generate personalized recommendations, and facilitate seamless collaboration between pet shop staff, pet owners, and veterinarians. Our goals are to reduce the spread of illness between people caused by pets and increase awareness of maintaining animal health.

Our system's purpose is to enhance the overall well-being of pets and ensure early detection of health issues, promote preventive care, and empower pet owners with the knowledge and tools to make informed decisions regarding their pets' health. Ultimately, the pet shop healthcare system aims to set new standards in pet care practices, establish trust among pet owners, and contribute to the overall improvement of pet health outcomes.

The current situation in pet healthcare management for pet stores presents challenges and opportunities. Although there are limitations in the current internet-based solutions, it is important to acknowledge the positive aspects that can enhance the health protection system

for pet stores. One downside is that many pet companies require comprehensive, real-time health monitoring, leading to innovative technology in the field of improving pet health. This could lead to a delay in identifying different health specialties. On the other hand, there are positives, such as online pet portals, as some pet stores provide online portals for pets to access their health records, vaccination charts, and appointment schedules. This allows them to stay informed, participate, and request health protection for their pets.

Examples include integrated health and fitness devices that have been vetted with advanced, well-emitted pet monitoring devices, such as activity and health trackers, in pet healthcare systems. These devices collect health data in real-time, enabling movement and early detection of health issues. With the limitations present in the current healthcare management of pet stores, along with

the positive influences, it is possible to accept the pressures of technology and strive for a more comprehensive, diverse, and collaborative improvement in pet health.

Survey:

According to our survey, 70% of individuals who have interacted with pet stores believe that diseases can be transmitted from humans to animals. The primary users of our system are pet owners, while secondary users include those with an interest in pets. The main purpose of our system is to provide care for pets. Users can register in the system, to ensure the well-being of their pets and record their pet's health issues and vaccination history along with their personal information. By doing so, we can offer tailored suggestions and recommendations to promote optimal pet health and cleanliness, thereby reducing the risk of contracting diseases.

Our aim is to help pet owners provide their pets with the right food and a suitable environment.

Interview:

- 1. Question:** What signs or symptoms do you monitor for in your pet to gauge their overall health?

Answer: Signs for pet health: appetite, weight, activity, coat, and any unusual symptoms.

- 2. Question:** Do you think that a pet's psychology is negatively affected when he is not around other pets?

Answer: Yes, pets' psychology can be affected by lack of interaction with other animals.

- 3. Question:** How many times a month do you clean your pet?

Answer: I clean my pet once a month.

- 4. Question:** Do you think that a sterilized animal eats the same food as an unsterilized animal?

Answer: yes, sterilized animals can eat the same food as unsterilized ones.

- 5. Question:** What preventative measures do you take to ensure your pet's optimal health and well-being?

Answer: Preventative measures: regular check-ups, vaccinations, balanced diet, exercise, safe environment.

- 6. Question:** What dietary choices and exercise routines do you implement to maintain your pet's health?

Answer: I feed my pet balanced meals and take them for walks daily.

Summery:

1. Best Practices for Pet Health:

- 83% advocate for adopting all suggested measures for pet health, including diet, preventive vaccinations, and continuous sterilization.
- Smaller percentages prioritize specific aspects: 10.6% prioritize preventive vaccinations, and 6.4% prioritize caring about diet.

2. Importance of Advanced Technologies:

- 85.1% deem it very important for pet shops to offer advanced technologies and online platforms for pet health management.

3. Satisfaction with Healthcare Services:

- 66% feel neutral about current healthcare services at pet shops. - 19.1% express being very satisfied.
- 14.9% are very dissatisfied.

4. Possibility of Disease Transmission:

- 68.1% perceive a moderate possibility of pet diseases transmitting to humans. - 17% see a high possibility.
- 14.9% consider it low.

Requirements:

A.

- 1- provide instructions and Guidance for caring th pet.
- 2- provide the proper food for each animal.
- 3- Provide a schedule with a specific date for the days of vaccination, cleaning, and sterilization.
- 4- Providing appropriate ideas about the pets environment, psychological health, and activities that must be performed.

B.

- 1- The user will be able to maintain the health of his pet permanently and continuously
- 2- The user will be able to know any deficiency his pet needs
- 3- The user will be able to know how to treat his pet when it develops any disturbing symptoms

C.

1. The system provides a user-friendly interface
2. Users are able to create and manage profiles for their pets
3. The system allows users to schedule and receive reminders for important pet health care activities.
4. Users can securely communicate with veterinarians