

Temporary Pet Care Services: A Software-Based Solution

Avirupa Das
Dept. of Computer & Science
Engineering
American International
University-Bangladesh
Dhaka-1229, Bangladesh
22-46080-1@student.aiub.edu

Mahfuza Farjana
Dept. of Computer & Science
Engineering
American International
University-Bangladesh
Dhaka-1229, Bangladesh
22-46084-1@student.aiub.edu

Anirudda Nath Bishnu
Dept. of Computer & Science
Engineering
American International
University-Bangladesh
Dhaka-1229, Bangladesh
22-46115-1@student.aiub.edu

Md. Nasif Sadnan Chowdhury
Dept. of Computer & Science
Engineering
American International
University-Bangladesh
Dhaka-1229, Bangladesh
22-46118-1@student.aiub.edu

Tonmoy Sarkar
Dept. of Computer & Science
Engineering
American International
University-Bangladesh
Dhaka-1229, Bangladesh
22-46844-1@student.aiub.edu

Abstract—*This study investigates the challenges pet owners face when they need temporary pet care services due to travel or busy schedules. Traditional pet care services, including pet professional boardings, are typically expensive and unreliable. All these factors lead to an increasing demand for alternative solutions. To tackle this growing demand, we propose a software system that connects pet owners with verified caretakers through a secure platform. The system ensures credibility by verifying users' credentials through national identification numbers and past service reviews. A survey was conducted to analyze user preferences and their concerns about sending their pets for pet care or taking care of other's pets, and the findings demonstrate a significant interest in such a platform. The proposed solution improves pet care accessibility while ensuring trust and transparency.*

Keywords— *Pet care, temporary pet care, online pet-sitting services, pet caretaker verification, digital pet care solutions.*

I. INTRODUCTION

A. Background Information

Pet owners often struggle to find reliable pet care services when traveling or having busy schedules. Traditional pet care options, such as professional pet boarding services, are costly and may not always provide the personalized care that pets require. Additionally, Pet owners are often concerned about their pets' safety, food

habits, emotional well-being, and other stuff. This creates a demand for a digital solution that connects pet owners with trusted caretakers who can offer personalized services at an affordable rate.

B. Overview

This paper presents a digital solution connecting pet owners with verified caretakers interested in providing temporary pet care. The platform ensures security and reliability through stuff like background checking, NID verification, and a user rating system. The system also facilitates real-time updates, video calls, and payment management to enhance user experience and trust. The solution is designed in such a way that it will be able to minimize risks, offer convenience, and provide pet owners with peace of mind while ensuring their pets receive the necessary care.

II. METHODOLOGY

A. Description of the Solution

The proposed platform allows pet owners to post-care requests. Interested caretakers can respond to these requests. Owners can then evaluate applicants based on profiles, reviews, and credentials and select the caretaker. Owners must provide detailed information about pet preferences, medical conditions, and behavioral traits before sending their pet to the caretaker. This process ensures that pets are placed in the hands of capable and experienced individuals.

B. Survey and Data Collection

A survey of pet owners and those with an interest in pet care was conducted to confirm the feasibility of this approach. The survey questions included multiple choices to capture user concerns and expectations. All these questions were close-ended to ensure structured and efficient data collection. Data was collected from respondents regarding their willingness to use such a platform, trust factors, and service expectations. The survey focused on key aspects such as pricing expectations, key concerns about pet care, and features they would find useful in a digital pet care solution.

C. Selection of Contributors

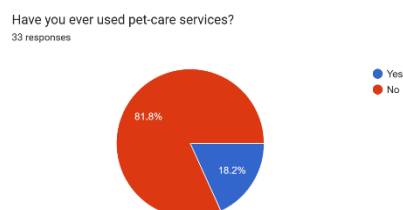
Pet owners and those who are willing to take care of pets were the candidates for the survey. The survey also included people who don't have pets or don't have much concern about pet care platforms to get a wider view of the matter. This helped us to understand the potential of the platform and ensured a balanced perspective on both the service providers' and receivers' expectations. The data collected was analyzed to identify the patterns in temporary pet care requirements and user preferences, which were used to refine the platform's features and security measures.

III. RESULTS AND DISCUSSION

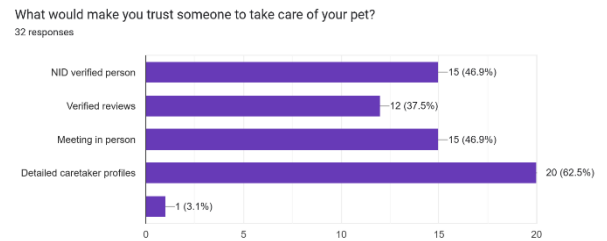
A. Analytical Results

Based on the survey responses:

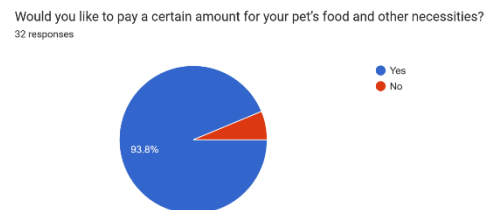
- **Approximately 82% of respondents** are inexperienced about sending their pets to pet care



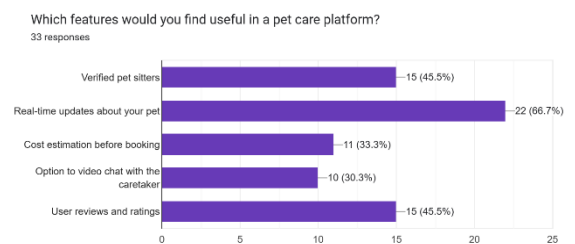
- **Around 63% of pet owners** prioritize detailed caretaker information



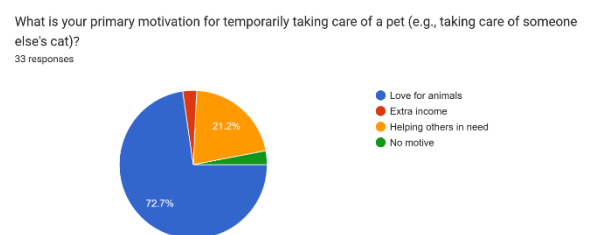
- **94% of respondents** are willing to pay for a temporary pet care service.



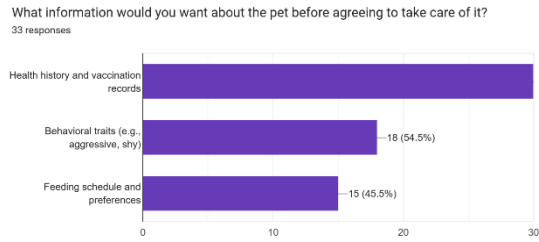
- **Around 67% consider real-time updates and video calls essential** for trust-building.



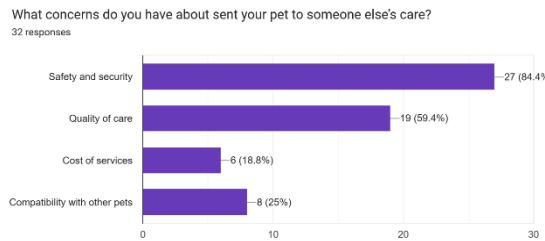
- **72% of potential caretakers** stated that they want to take care of others' pet because of love for animals.



- **Around 91% of caretakers** stated that they are concerned about health history and vaccination records of pets before taking care of.



- **Around 85% of pet owners** main concern about sending their pets to pet care is safety and security.



These findings highlight the demand for a structured and reliable pet care platform.

B. Discussion

The survey results indicate that pet owners are highly concerned about their pets' safety and well-being while under someone else's care. Real-time monitoring, verified caretaker profiles, and verified reviews were identified as key factors in building trust in caretakers. Additionally, before accepting requests, caretakers prefer clear guidelines about a pet's medical background, dietary needs, and behavioral characteristics. This shows that to guarantee efficient service delivery, the platform must have the right documentation and communication tools. Furthermore, financial issues regarding service and food fees were highlighted, suggesting the need for a transparent pricing structure.

IV. CONCLUSION

A. Key Findings

The study demonstrates that pet owners' concerns about their pets can be successfully addressed by a technology-driven temporary pet care solution. The platform can foster a reliable connection between pet owners and

caretakers while ensuring pet safety, proper documentation, and transparency. By implementing features like real-time updates, background verification, and real-time video chat functionalities, the platform can build user confidence and promote responsible pet care services.

B. Limitations

The main challenges of the system include initial user adoption, ensuring foolproof verification, and maintaining long-term service quality. Since caretakers may not always be available to provide the service, incentives and promotional strategies could help encourage them and ensure their availability. Security concerns related to NID verification and user privacy must also be addressed to build a secure and trustworthy ecosystem.

C. Future Recommendations

Further research should focus on integrating AI-driven algorithms to enhance caretaker selection, ensuring flexible pricing models, and adding emergency response features in case of pet-related incidents. Additionally, partnerships with veterinary services and pet food suppliers can help to create a complete pet care ecosystem. Developing a mobile application with GPS tracking, automated payment processing, and customer support features will further improve user experience.

ACKNOWLEDGMENT

We express our gratitude to our survey participants for their valuable insights. Special thanks to our course instructor for guiding us through this research.

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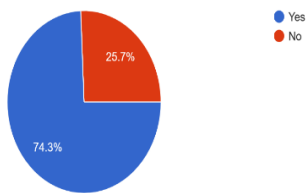
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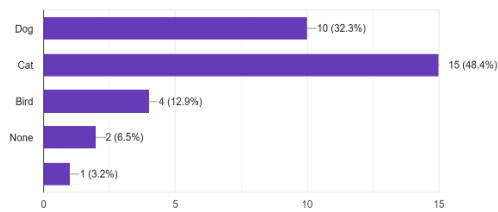
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APPENDIX

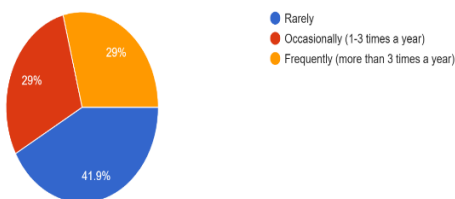
Do you currently own a pet?
35 responses



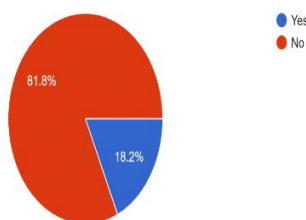
What type(s) of pet do you have?
31 responses



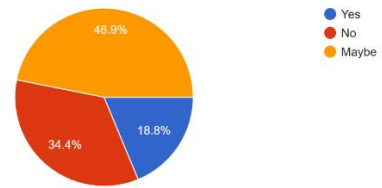
How often do you travel and need someone to take care of your pet?
31 responses



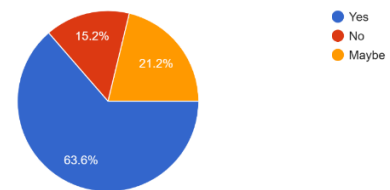
Have you ever used pet-care services?
33 responses



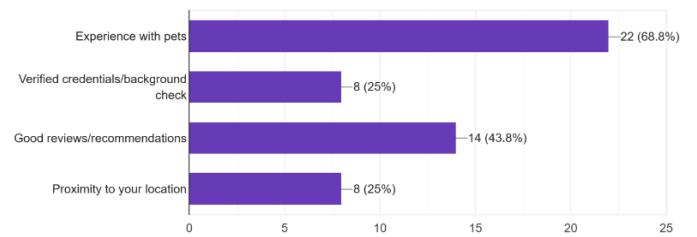
Would you consider sending your pet to another person for care during vacations?
32 responses



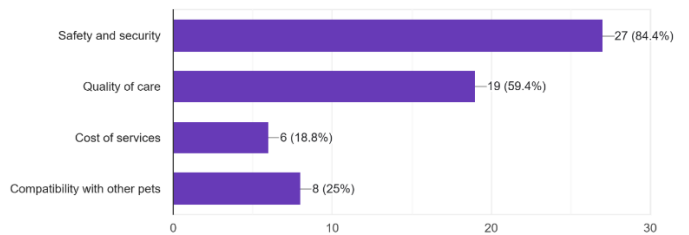
Would you be interested in taking care of others' pets?
33 responses



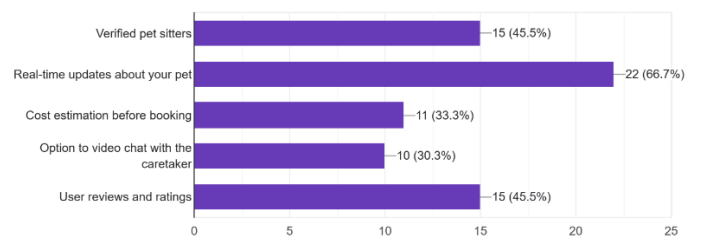
What qualities do you look for in someone taking care of your pet?
32 responses



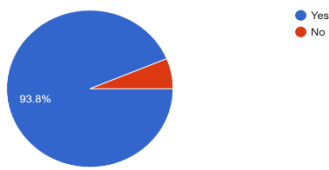
What concerns do you have about sent your pet to someone else's care?
32 responses



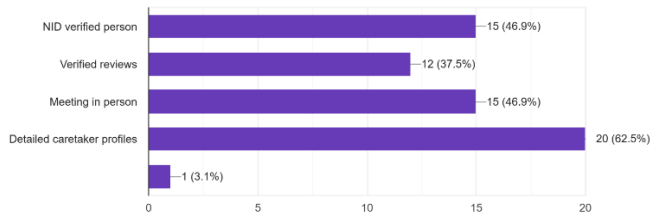
Which features would you find useful in a pet care platform?
33 responses



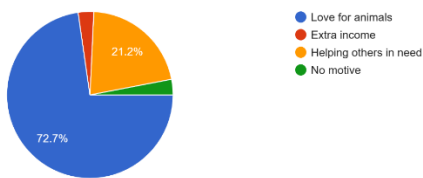
Would you like to pay a certain amount for your pet's food and other necessities?
32 responses



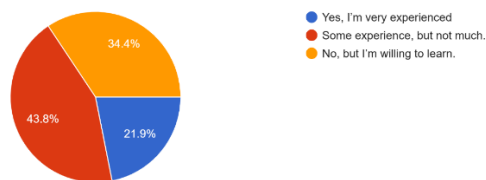
What would make you trust someone to take care of your pet?
32 responses



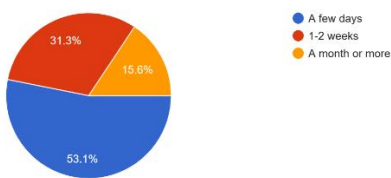
What is your primary motivation for temporarily taking care of a pet (e.g., taking care of someone else's cat)?
33 responses



Do you have prior experience in taking care of pets?
32 responses



How long are you comfortable taking care of someone else's pet?
32 responses



What information would you want about the pet before agreeing to take care of it?
33 responses

