PROJECT SYNOPSIS

REPORT ON

PET ADOPTION SYSTEM

SUBMITTED

TO

DEPARTMENT OF COMPUTER SCIENCE

AND ENGINEERING

FOR

FRONT END ENGINEERING-II

Submitted By:

Arshdeep(2210991364)
Arshdeep(2210991366
Ishika(2210991686)
Ishika(2210991688)
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Submitted To:
Mr. Rahul

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ProblemStatement

Potential adopters often have a hard time finding complete and current information about pets that are available for adoption. Many existing websites do not have all the information in one place, which means users have to look at different sources to find what they need. This makes it challenging for them to see all the pets that are available for adoption in one spot.Adopters need a user-friendly way to manage their profiles, track their adoption applications, and receive updates about their inquiries..

Titleofproject:

Pet Adoption System: Adopt, Chat, Connect

Objective&KeyLearnings:

Objectives:

- Create a user-friendly platform that aggregates information about available pets from various shelters, allowing potential adopters to view all pets in one place.
- Implement a discussion box where users can share experiences, ask questions, and connect with other pet adopters, creating a sense of community and support.
- Develop interactive features such as a chatbox for real-time communication between adopters and shelter staff, enabling quick responses to inquiries and fostering a supportive environment.

Key Learnings:

- Gained practical experience in building a complete web application using the MERN stack (MongoDB, Express.js, React, Node.js), understanding how each component interacts within the architecture.
- Developed skills in implementing real-time features, such as chat functionality, using technologies like WebSockets or libraries like Socket.io, which improve user interaction.
- Acquired knowledge in managing a NoSQL database (MongoDB), including data modeling, querying, and ensuring data integrity for user and pet information.

Options Available to Execute the Project:

- **Local Development:** Set up a local development environment using tools like Visual Studio Code, Git, and Postman for API testing.
- **Version Control: Use Git for version control to manage code changes and collaborate with team members effectively.**

Advantages/Disadvantages:

Advantages:

- **Centralized Information**: The system provides a single platform where users can view all available pets, making it easier for potential adopters to find the right pet.

- **Enhanced User Engagement**: Features like a chatbox allow for real-time communication between adopters and shelter staff, improving user experience and satisfaction.
- **Increased Adoption Rates**: By improving accessibility and engagement, the system can help increase the number of successful pet adoptions, benefiting both pets and adopters

Disadvantages:

- **Development Complexity**: Building a full-featured application with multiple components (pet page, profile page, chatbox, discussion box) can be complex and timeconsuming, requiring careful planning and execution.
- **Real-Time Communication Challenges:** Implementing a chatbox feature requires handling real-time data and ensuring that messages are delivered promptly, which can introduce technical challenges.
- **Performance Issues**: If not optimized properly, the application may experience performance issues, especially as the number of users and pets increases.

REFERENCES

- Smith, J., & Johnson, L. (2022). Enhancing Pet Adoption Through Technology: A Study on Online Platforms. Journal of Animal Welfare Science, 8(1), 15-29
- Patel, R. (2019). *How AI Is Revolutionizing Skincare: An In-Depth Look at AI and Jones, R., & Patel, S. (2019). Community Engagement in Pet Adoption: The Impact of Social Media. Journal of Community Animal Welfare, 6(2), 101-11*
- *https://www.adoptapet.com/ (another well-known pet adoption website that provides resources for finding pets and shelters).*