

PET Management System

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Abstract

The **Pet Management System** is a comprehensive platform designed to streamline pet care services, including boarding, grooming, training, veterinary support, and adoption. The system to provide pet owners with an efficient way to manage their pets' needs while offering businesses a tool to organize services, customer interactions, and product sales. This system enhances convenience, improves service quality, and fosters better communication between pet owners and service providers.

1. Problem Domain

- 1. No Centralized Platform: Pet owners lack a single app for vet care, grooming, and shopping
- 2. Inefficient Bookings: Manual scheduling leads to conflicts and mismanagement
- **3. Unreliable Services:** Hard to find trusted providers with verified reviews
- **4. Poor Communication**: Misunderstanding between owners and service providers
- **5.** Outdated Systems: Many businesses use manual processes, reducing efficiency

2. Motivation

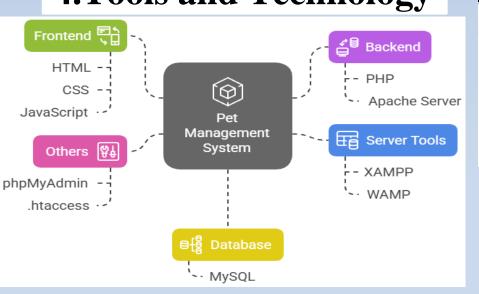
Our Sol: PET Management System

- All-in-One Platform: Easy access to pet care services
- **Smart Scheduling:** Avoid conflicts, book instantly
- **Verified Providers:** Find trusted professionals with reviews
- Seamless Experience: Digital, fast, and user-friendly

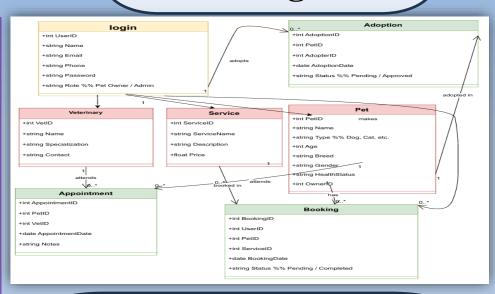
3. Objective

- To provide an all-in-one platform
- To enable smart appointment booking
- To connect users with trusted service providers
- To facilitate seamless communication
- To deliver a user-friendly design

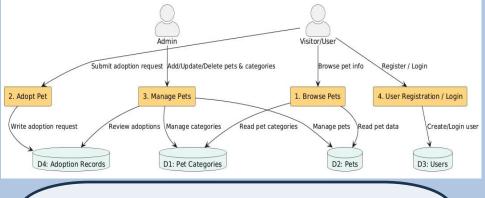
4. Tools and Technology



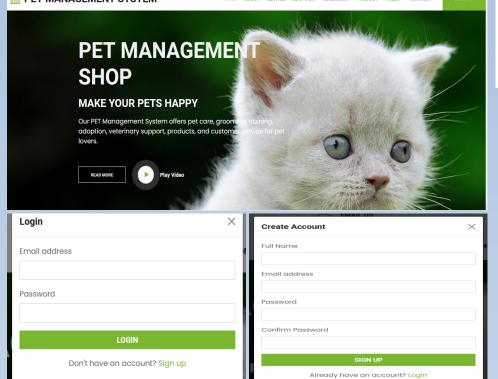
6. ER- Diagram



7. Data Flow Diagram

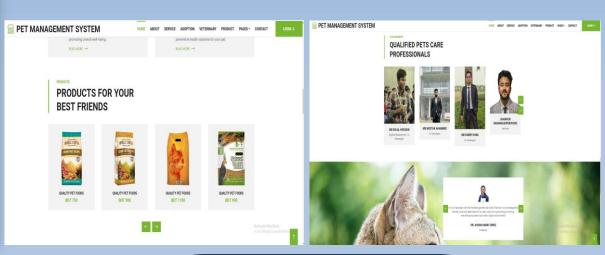


8_1. Implementation...



PET MANAGEMENT SYSTEM MANAGE SYSTEM Manage Pet Mana

8_2. Implementation



09. Testing

Criteria	Action	Input (Test Case)	Expected Out-	Actual Output	Test Re-
			put		sult
User Reg-	Weak Password	username: "test2",	"Password too	Success message	Fail
istration		password: "123"	weak"		
User Reg-	Long Username	username: "a"*256,	"Username too	Success message	Fail
istration		password: "se-	long"		
		curePass"			
Adoption	Valid Request	user_id: 1, pet_id: 3	"Adoption re-	"Adoption re-	Pass
			quest submitted"	quest submitted"	
Security	XSS Test on User	<pre><script>alert("XS</pre></td><td>S"Sanitized out-</td><td>"Sanitized out-</td><td>Pass</td></tr><tr><td></td><td>Input</td><td></script> in form</pre>	put"	put"	
Performanc	eLoad Pet Listings	5000 pet records	Load in < 3 sec-	Loaded (time not	Fail
			onds	specified)	
Edge	Large Image	10MB pet photo	"Image too large"	"Image too large"	Fail
Cases	Upload				
Search	SQL Injection in	Search term: "OR	"Invalid input"	Success message	Fail
Function	Search	1=1			

10. Social Impact

- Encourages responsible pet ownership through accessible care services
- Supports animal welfare with streamlined adoption and health monitoring
- Builds a compassionate pet community by connecting owners with trusted providers

11. Conclusion

A unified digital platform offering essential pet care services like grooming, training, adoption, and veterinary support. It streamlines service providers and enhance for pet owners through automated bookings and clear service. Future plans include mobile app integration, AI-based care suggestions, and advanced analytics.

5. Literature Review

3. Literature Review				
Author	Contribution	Limitation		
[1] Mark Wilson et al. (2023)	Cloud-based vet system with AI diagnostics & auto-reminders.	No mobile support; lacks third-party integrations.		
[2] Sarah Johnson et al. (2022)	Digital pet service platform with recommendation engine.	Weak algorithm accuracy; no live chat.		
[3] Ahmed Khan et al. (2021)	Django-based vet scheduling with reminders & online consults.	No payments or user reviews.		

12. References

- [1]. Wilson, M. et al. (2023). Cloud-Based Pet Care Management System for Veterinary Services.
- [2]. Johnson, S. et al. (2022). Digital Pet Service Platform for Optimized Pet Care.
- [3]. Khan, A. et al. (2021). Veterinary Appointment Scheduling Using Django & RESTful APIs.
- [4]. Brown, E. et al. (2020). IoT-Enabled Pet Monitoring System for Health Tracking.