Final Executive Testing Report

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Executive Summary

The testing phase for the Veterinary Guau Guau system focused on validating the functionality and reliability of the "User Authentication" module. Key objectives included ensuring data security, user accessibility, and system scalability. The process followed a detailed test plan, resulting in critical insights that will drive system improvements before deployment.

General Conclusions

The testing revealed that while the core functionality meets basic requirements, critical issues such as security vulnerabilities and database design gaps require immediate attention. Despite these setbacks, the overall system demonstrated promising potential for scalability and user experience enhancements when addressed.

- Functional aspects of login were verified successfully.
- Non-functional requirements, such as accessibility, met basic standards but require further refinement.
- Security measures, including account lockout, were insufficient, highlighting a significant vulnerability.

Key Results

- **Planned Test Cases:** 25
- **Executed Test Cases:** 20 (80% completion)
- **Blocked Test Cases:** 5 (20% due to database and system constraints).

Successful Test Cases

1. User Authentication:
1. Login with valid credentials successfully redirected users to the appropriate dashboard.
2. Login with invalid credentials displayed the correct error message: "Username or password is incorrect."
3. Attempts to log in with empty username or password fields triggered validation errors, prompting users to fill the required fields.
4. Browser compatibility tests verified that the login functionality worked consistently across Google Chrome, Mozilla Firefox, and Microsoft Edge.

Critical Issues Identified:

5. Absence of account lockout after multiple failed login attempts.
6. Database design lacked essential scalability elements, limiting system reliability under increased load.

Observations and Final Recommendations

The current system meets basic functional requirements, particularly in user authentication scenarios, but reveals critical gaps in security measures and database architecture. Accessibility features, though partially functional, require further enhancement to comply with global standards and ensure usability for all users. To address these issues, security enhancements such as implementing an account lockout mechanism, encrypting credential storage, and conducting periodic security audits are essential. The database should be redesigned to include comprehensive user tables and optimized for scalability to ensure reliability under increased workloads. Additionally, accessibility features should align with WCAG 2.1 standards, with expanded testing for assistive technologies like screen readers and keyboard navigation to improve usability and inclusivity.

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Final Conclusion

The final testing phase has provided a comprehensive evaluation of the Veterinary Guau Guau system, highlighting its strengths and areas for improvement. While the system successfully addressed core functionalities like user authentication, critical vulnerabilities in security and scalability were identified. These findings serve as a roadmap for refining the system, ensuring it evolves into a robust and user-friendly solution. By addressing the recommendations outlined in this report, the system will be well-positioned to meet the client's needs and deliver a reliable, scalable, and accessible experience for all users.