STAGE 4
EVALUATION

EXECUTIVE REPORT

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EXECUTIVE SUMMARY

This document details all the information about the testing of "Veterinaria Guau Guau", centered on aspects related to the principal functions of the system: login, new client registration, new pet registration, and vaccine registration.

The principal objective was to ensure the quality of the system based on the functional and nonfunctional requirements, security, and performance of the system. Also includes aspects like visual interface and user experience.

Different methods were used to collect information about the system such as equivalence partitions, limit values, user stories, and exploratory testing.

GENERAL CONCLUSIONS

Software Quality

The system has made progress in stability and issue resolution, as evidenced by a reduction in blocked cases and an approval rate exceeding 50%. However, despite these improvements, critical issues with high priority and severity persist, affecting both the functionality and consistency of the system. Therefore the system shows improvements but is not reliable or efficient due to critical problems that require priority attention.

Functionality

The functionality status of the "Guau Guau" veterinary website shows positive progress following retesting. Key features such as login, client and pet registration, and vaccine management were evaluated and verified.

- **Login:** Previous errors were fixed, and authentication now works correctly in all test scenarios.
- **Client and Pet Registration:** The process was successfully completed without any issues in data or validations, improving usability.
- **Vaccine Management:** The features for registering and consulting vaccines are operational, with information correctly stored and accessible.

Security

The system was evaluated in terms of user authentication security, specifically password management. The tests revealed that the system does not fully meet the security requirements, as password encryption was not correctly implemented in all cases. Adjustments to the security protocols are needed to comply with the standards set in requirement RNF03.

Performance

No specific performance testing was conducted, but compatibility issues were identified with certain browsers and devices, affecting the display and functionality of the system. Additionally, the navigation functionality (such as the browser back arrows) is not properly enabled, which may cause confusion. Scalability and the ability to handle multiple users simultaneously could not be tested, as the SQL database was not connected during testing. Addressing these issues is crucial to ensure a smoother and more consistent user experience.

KEY RESULTS

1. **Comprehensive Testing Results**

In total was tested in sixty-four cases, thirty-six test cases, and twenty-eight exploratory tests. About this, the hundred percent was tested, including tests about functionality, security, and performance.

Initially, twenty-one cases were identified as either blocked or failed. Currently, seventeen cases remain in this state.

2. **Significant Progress in Resolving Blocked and Failed Cases, Improving Login Functionality**

Of fourteen cases that failed reported in the beginning, only one was solved. Of seven blocked cases, five were solved. This was a very important upgrade because most of the blocked cases were related to login, functionality was inaccessible in the beginning of the test.

3. **Inconsistencies in Authentication and Security**

During retesting, issues were found in the implementation of authentication policies, requiring optimization to enhance the system's security.

4. **Inability to Conduct Scalability Testing**

Scalability testing could not be performed, highlighting the need to establish load conditions to assess the system's performance under stress.

5. **Quality evolution:**

The failed and blocked cases highlight key areas for improvement, particularly in validation logic and visual design, offering a clear roadmap for future optimizations.

6. Documentation

Detailed documentation of test cases, including equivalence partitions, boundary values, and test results, was crucial for tracking and analyzing defects. This practice allowed for thorough and structured reviews, facilitating the identification of areas for improvement. It is suggested to maintain and even expand this level of documentation in future projects, including performance and security data, to ensure broader coverage.

FINAL OBSERVATIONS AND CONCLUSIONS

Throughout the testing project, several challenges and situations were identified and addressed. Some final observations and suggestions are:

- **Collaboration:** Effective communication within the testing team, as well as the support from our tutor to address the questions that appeared throughout the process, was crucial to the project's success.
- **Documentation:** The detailed documentation of test cases and testing processes facilitated the resolution of issues. The use of Jira and detailed spreadsheets enhanced incident tracking and result evaluation. It is recommended to maintain this level of detail in future projects.
- **Error Identification and Areas for Improvement:** Most of the identified errors were related to inconsistencies in input data validation, character limits, and visual design aspects. This highlights the need for adjustments in both the user interface and validation logic to optimize usability, ensure data accuracy, and enhance the overall user experience.

ACKNOWLEDGMENTS

We would like to highlight the guidance and support of the educational team, composed of our mentor Paula Rodríguez and our tutor Carlos Da Rosa. Their dedication, patience, and ability to address our questions in a clear and accessible way were essential for us to understand and confidently apply the concepts. Additionally, their way of keeping our motivation high, even in a virtual environment, was key for each of us to move forward with determination.

Throughout this process, the collaboration within our team was truly beneficial and constructive. Each of us brought our best to the table, and the way we supported each other at all times, both technically and emotionally, made this experience deeply enriching. We learned together, shared knowledge, and most importantly, we supported each other every step of the way, further strengthening our bond as a team.

Finally, we are grateful for the excellent planning and execution of the JAP program, which provided us with the opportunity to grow professionally and establish connections with the IT job market. The commitment and effort of everyone involved were crucial to achieving the results obtained.

Lastly, we thank all the parties who contributed to making this project such a valuable experience.

FINALS CONCLUSIONS

The testing process of the "Veterinaria Guau Guau" system has made significant progress in key areas such as login, client and pet registration, and vaccine management. However, critical issues persist in data validation, security, and browser compatibility, which require urgent attention to improve reliability and user experience.

Although the main functionalities are operational, failures were detected in areas such as password encryption and visual design. Additionally, scalability testing could not be performed, raising concerns about the system's ability to handle high traffic.

Despite these issues, the system demonstrates reliable performance in essential areas such as client and pet management, ensuring appropriate response times and providing a stable platform for future updates and improvements. This stability highlights the system's potential to continue adapting and effectively meeting user needs.