EXECUTIVE REPORT

Jóvenes a Programar - Group 288

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EXECUTIVE SUMMARY

This report summarizes the conclusions and results of the testing process carried out in the 'Guau Guau' veterinary project. The main objective of the testing was to evaluate the quality, functionality, and performance of key features, such as client, pet, and vaccine registration. Throughout the execution and retesting phases, our team conducted functional, integration, and performance tests, documenting any defects found. In the retesting phase, the effectiveness of the fixes was verified, and regression tests were performed to ensure the system's stability.

GENERAL CONCLUSIONS

- **Software quality**

During the testing process, the 'Guau Guau' system revealed areas for improvement, with certain issues identified in its key functionalities. These issues indicate that the system is not yet fully optimized. However, the defects were specific and isolated, not impacting the core functionalities of the system, which suggests that they can be addressed and resolved in future iterations.

- **Functionality**

The 'Guau Guau' system meets most functional requirements, with key features like client, pet, and vaccination registration working well. Some test cases initially failed due to blocked scenarios, but these were resolved, improving the system's overall functionality. While some isolated issues remain, they do not affect the main features and can be addressed in future updates.

- **Security**

The system was evaluated in terms of user authentication security, specifically password handling. 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 meet the standards established in requirement RNF03.

- **Performance**

During the tests conducted, the system demonstrated adequate performance under normal usage conditions, with response times within acceptable limits. However, load and stress tests could not be performed, preventing a complete evaluation of the system's performance under high-demand conditions.

KEY RESULTS

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1. **Failure in Date Validation for Vaccine Registration**
   The system allows incorrect dates to be entered: the application date must be the current day, and the expiration date must be later than the application date. This issue could compromise the integrity of the records and the validity of the vaccine data.

2. **Issue with Duplicate Email Validation**
   Despite attempting to register an already existing email, the system does not correctly validate duplicate emails, displaying a success message instead of a warning. This indicates that the system is not performing the proper check in the database.

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. **Browser Compatibility Issues**
   During the hackathon, discrepancies were identified that affect the accessibility and efficiency of the system across different platforms and browsers, limiting the user experience.

6. **Improvements in User Experience**
   Despite the mentioned issues, an overall improvement in user interaction was observed, optimizing the registration process and data management without evident validation errors

FINAL OBSERVATIONS AND RECOMMENDATIONS

- Team Integration Efforts: The integration of the testing team was crucial in identifying and documenting the issues encountered.

- Documentation: The use of Jira and detailed spreadsheets optimized incident tracking and results evaluation. Maintaining this level of detail is recommended for future projects.

FINAL CONCLUSION

The testing process for the "Guau Guau" project identified key areas for improvement in functionality, security, and performance. While key features such as client and pet registration worked well, issues were found with date and duplicate email validation that need to be addressed. Additionally, security improvements are required, particularly in password encryption. Scalability testing could not be performed, limiting the evaluation of the system's performance under high load conditions.

Browser compatibility issues were also identified, impacting the user experience, which overall was positive but requires further adjustments.

In summary, the system provides a solid foundation, but addressing these critical issues is necessary to improve its stability, security, and usability.

Sincerely,

Paula Osores, Team Manager and Documentation Leader.