

FINAL TESTING PROJECT

“Veterinaria Guau Guau”

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Introduction

This report aims to present the main results, findings, and recommendations obtained during the testing process of the Veterinaria Guau Guau system. This system is designed to manage the registration of clients, pets, and vaccines, ensuring that its functionalities are robust, secure, and accessible to end users.

Scope

The testing project focused on evaluating three fundamental areas of the Veterinaria Guau Guau system to ensure compliance with functional and non-functional requirements:

- **Registration Modules:**
These include the registration of clients, pets, and vaccines.
Data accuracy and validation of required fields were assessed.
Tests were conducted to ensure that the input data adhered to defined formats and business rules.
- **Web Accessibility:**
Navigation using the keyboard, color contrast of visual elements, and zoom functionality were reviewed.
The objective was to verify compliance with accessibility standards for users with visual or motor impairments.
- **Database:**
The database structure was verified, ensuring correct relationships between tables through primary keys and constraints.
Security mechanisms related to user management and authentication were also reviewed.

Development

The conditions for software verification (functional tests) and validation (satisfaction and quality tests) were redefined, accounting for deadlines and schedules based on the “mandatory coverage” proposed by the team, ensuring that critical and primary functions are covered. This stage focused on ensuring that fixes did not affect existing functionalities:

- **Retesting:** Previously failed test cases were re-executed to confirm error resolution.
- **Security Evaluation:** Authentication and password recovery mechanisms were analyzed to ensure they were robust and secure.

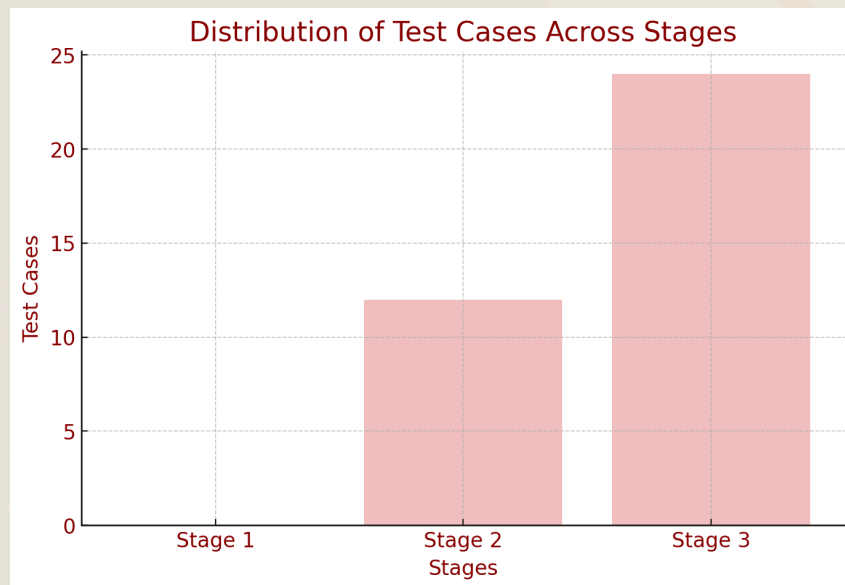
The attached link contains the test cases used to validate the requirements established in the ESRE, along with the corresponding assignments.

- [Jira - Test cases and reports](#)

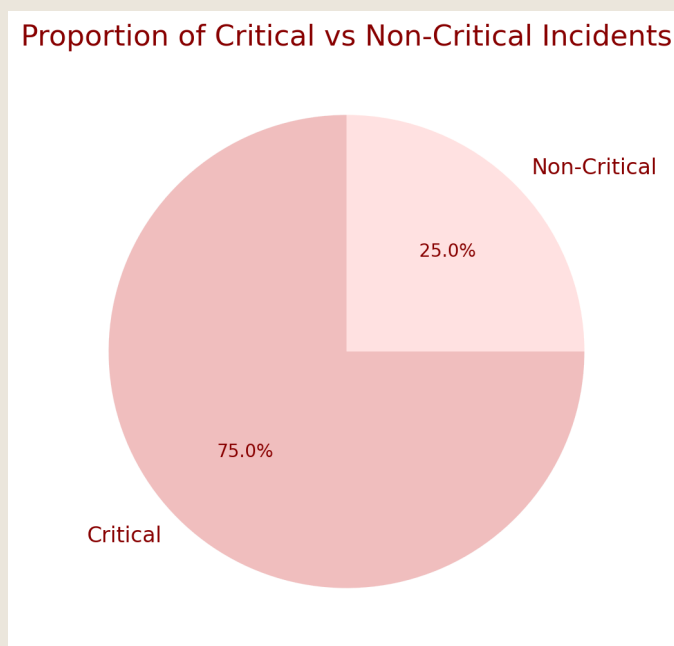
Metrics

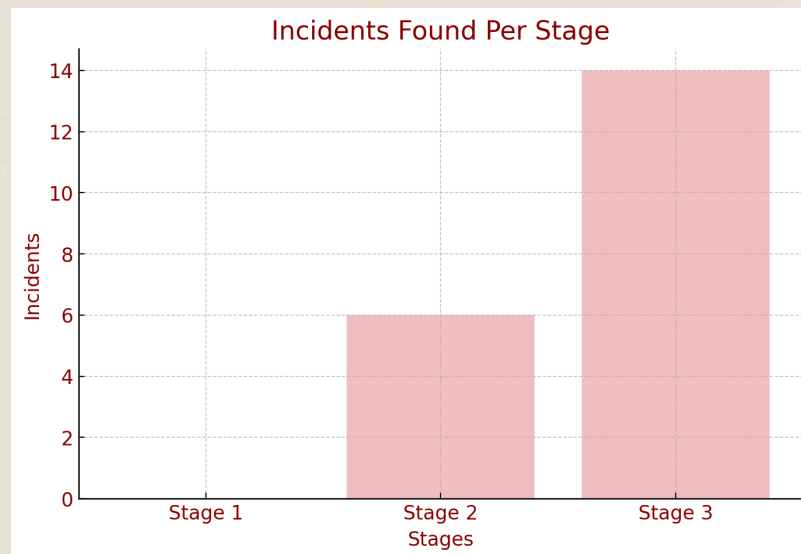
Quantitative analysis of the tests provided relevant information about the system's status:

- Test Cases Executed: A total of 36 test cases were executed, covering 85% of critical functionalities.



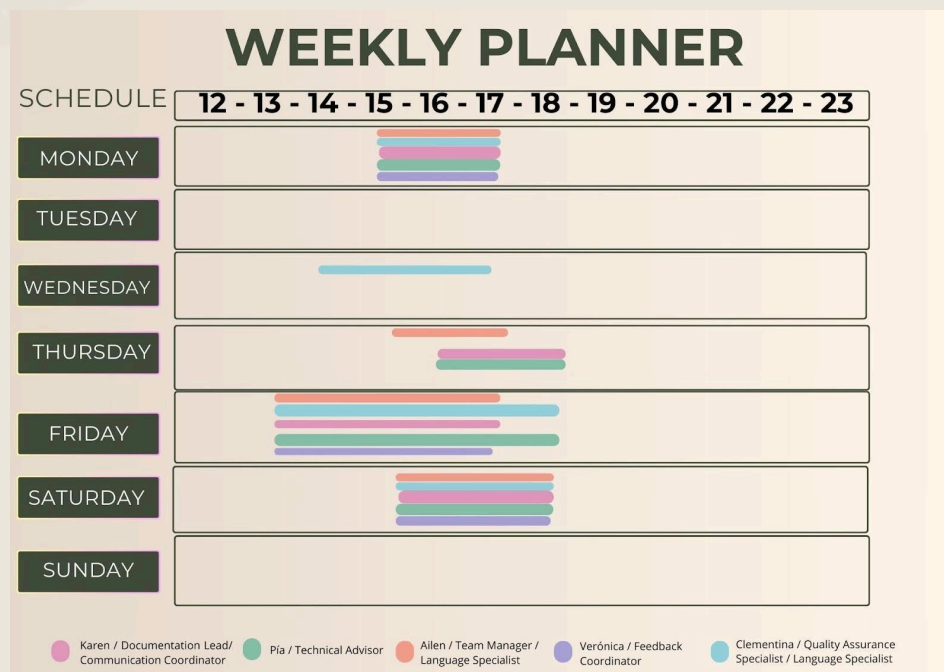
- Incidents Detected: 20 incidents were found, 75% of which were classified as critical. These incidents were distributed as follows:
 - Stage 2: 6 incidents.
 - Stage 3: 14 incidents.





- Testing Environments and Tools: Tests were conducted on various browsers (Chrome, Safari, and Edge) and operating systems (Windows and iOS). Jira was used for tracking and documenting tests.

The timeline and progress of the work continue as follows:



At the end of the tests, the team meets, shares, and concludes the validation of the tests, addressing any issues encountered and the final results, to fully develop the preparation of this report.

Conclusion

The testing project results highlight several areas for improvement in the Veterinaria Guau Guau system, including functionality, security, and accessibility aspects.

Key Recommendations:

- **Form Validations:** Implement real-time validations in registration forms to prevent inconsistent data entry, such as incorrect dates and invalid characters.
- **Accessibility Improvements:** Adjust button contrast and enhance keyboard navigation to meet accessibility standards, making the system more inclusive.
- **Database Security:** Incorporate a login table with encryption to protect user information and prevent vulnerabilities.
- **Error Messages:** Provide more detailed and visually prominent error messages to enhance user experience and facilitate problem resolution.

These actions will contribute to optimizing the system, making it more secure, accessible, and user-friendly, thereby achieving the project's objectives and improving the end-user experience.