2023

Testing Report of

Electronic Medical Record System Application

Client: Health and Education for All (HAEFA)

Project Name: Electronic Medical Record System Application

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Project Information

- Project Name: **Electronic Medical Record System Application**
- Testing Period: Sep 27, 2023, to Dec 03, 2023
- Testing Team: Rashed Zahan (SQA Engineer), Mustafa Tanim (Jr. SQA Engineer)
- Project Manager: Urmi Hira
- Website URL: [Local server]

Executive Summary

This report presents the results of testing conducted on the Nirog Plus, an Electronic Medical Record System Application. The testing aimed to ensure the functionality, security, reporting and overall quality of the application before its public launch.

Scope

The testing encompassed various aspects of the Nirog application, including but not limited to:

- Functional Testing
- UI Testing
- Performance Testing
- Security Testing
- Database Testing

Testing Approach

Our testing approach involved a combination of manual testing and requirement traceability matrix techniques. We utilized test cases tailored to medical sector scenarios to evaluate the website thoroughly.

Test Environment

The testing was conducted on the following environments:

Browsers: Chrome, Firefox

Mobile Devices: Samsung Galaxy Tab S7, iPad PRO 11

Operating Systems: Windows 10

Test Cases

- Frontend Test Case Executed: 427
- Functional Test Cases: 131
- RTM (Backend):114
- RTM (Frontend): 64
- Performance Test Cases: 4320

Test Results

Functional Testing

- Pass Rate: 96%
- Fail Rate: 3%
- Out of Scope: 1%
- Critical Defects: 6 (Solved)

Usability Testing

- Usability Score:
- Positive Feedback: Intuitive navigation and reporting system.
- Improvement Areas: Enhanced UI responsiveness and faster report loads.

Performance Testing

- Average Page Load Time: 51.032 seconds
- Peak Load Test: Successfully handled 90 simultaneous users without significant performance degradation.

Security Testing

- Recommendation: Regular security audits and updates are recommended to maintain a secure environment.

Recommendations

Based on the test results, we recommend the following:

- Address critical and major defects promptly to ensure a seamless user experience.
- Enhance UI responsiveness and page optimize and report design for improved usability.
- Continue regular security assessments and updates to protect customer data.
- Continue data backup with an auto backup software and we should follow standardize Structured database.

Conclusion

Overall, the Nirog Plus is a line store that exhibits strong potential as a reliable and user-friendly medical record system application. Addressing identified issues and implementing recommended improvements will contribute to a successful application launch.

Future Steps

Future testing activities should include new requirements and regression testing after defect fixes and additional load testing to ensure scalability of this application.

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Contact Information

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This summary report provides an overview of the testing process, results, and recommendations for the Nirog Plus application. It can serve as a valuable resource for stakeholders involved in the website's development and improvement.