

POS TESTING SERVICES

Seamless POS Performance: Secure, Scalable, and Optimised

POS (Point of Sale) Testing is the process of validating and verifying the functionality, performance, and security of a POS system. This type of testing is crucial for businesses, as it ensures that the POS system is reliable and can handle transactions effectively, providing a seamless customer experience. During the POS testing process, the system is put through a series of rigorous tests to ensure that it meets the necessary standards for reliability and security.

Why Noesis?

The ever-evolving landscape of POS systems presents multiple challenges, each requiring expertise and a dedicated approach to overcome.

Business challenges



Hardware and software compatibility

Ensuring seamless interaction between different devices and configurations.



Performance during peak times

Ensuring optimal performance during high-traffic periods and peak transaction volumes.



Third-party integration

Keeping the POS system up-to-date, secure, and running efficiently.



System updates and maintenance

Ensuring the POS system remains updated, secure, and efficient.



User experience

Providing an intuitive and user-friendly interface for both customers and employees.



Security and data protection

Safeguarding sensitive customer information and preventing fraudulent activities.

Our testing approach

Point of Sale (POS) testing is the process of evaluating the functionality, security, and performance of a POS system to ensure seamless transactions and a smooth customer experience.

A structured POS testing approach ensures seamless integration of hardware, software, payment systems, and security.



1

Understanding POS System

- Keeping the POS system up-to-date, secure, and running efficiently.

2

Testing Types

- **Functional Testing** | Validate transactions (sale, refund, void, split Payments, test discounts, promotions, loyalty points, barcode scanning, verify receipt printing and invoice generation.
- **Integration Testing** | Validate payment gateways, third party API connections (SAP, Dynamics CRM and more).
- **Performance Testing** | simulate high transaction loads. Test offline mode behavior.
- **Security Testing** | Validate PCI-DSS compliance, test encryption of sensitive data, and verify authentication.
- **Usability Testing** | Check ease of navigation.
- **Regression Testing** | After updates or patches, ensure existing functionalities are not broken, and validate backward compatibility with previous version.
- **Device Compatibility Testing** | Test POS software on different hardware models and OS versions. Ensure proper functioning on various screen sizes and touch interfaces.
- **Recover and Failover Testing** | Test POS behavior during power failures, network downtime, or crashes.



3

Testing Environment Setup

- Test data | Test devices | Network conditions | Security tools

4

Test Execution and Reporting

- Create test cases for all transaction types.
- Use test automation tools (e.g., Selenium, Appium for mobile POS testing).
- Log and track defects using Jira, TestRail, Azure DevOps or other tools.
- Generate reports to analyse system performance and security.

5

User Acceptance

- Conduct real-world testing in a store-like environment.
- Involve store employees to validate usability.
- Perform end-to-end testing from product selection to payment completion.

NOESIS

Why Noesis?

At Noesis, we don't just test - we optimise your POS ecosystem for maximum reliability and security. From test strategy to execution, automation, and defect resolution, we ensure a seamless SDLC, so you can focus on growing your business.

Our experts begin work right from defining test strategy to test planning, test execution, test management, defect management, reporting and optimisation to make the entire SDLC process seamless and smooth.

Partner with Noesis to boost your POS performance & security. Contact us to learn more.



STRONG POOL OF SCALABLE QA RESOURCES

Leverage our 60% ISTQB-certified QA experts to future-proof your POS systems today.



GLOBAL PRESENCE

Presence in Portugal, Spain, Ireland, the Netherlands, Brazil, the USA and the UAE to support global requirements.



ABILITY TO DELIVER

- › End-to-end testing.
- › Service Optimisation by offering API, Mobile, Performance, Security and Functional testing.
- › Migration testing of legacy to modern applications.
- › We help set up and run a Testing Centre for a centralised testing process.

Our clients

PRIMARK®

Jerónimo Martins | pingo doce

Sonae

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