

Payment Gateway Testing **Mainframe Testing**

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Testing for Retail POS System

Healthcare Application Testing **Unit Testing**

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Testing Retail Point Of Sale(POS) Systems: **Example Test Cases** What is POS Testing?

Home

Sale Application. A POS or Point Of Sale

software is a vital solution for retail businesses to carry out retail transactions effortlessly from anywhere. You must have seen Point of Sale terminal while checking out at your favorite Mall. The system is more complex than you think and is tightly integrated with other software systems like Warehouse, Inventory, purchase order, supply chain, marketing, merchandise

Inventory Management

Warehouse Management **Purchase Order**

Management Store Operations Supply Chain Management

Financial Planning

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POS Testing is defined as Testing of a Point of



planning etc. POS Domain Knowledge is important for testing.

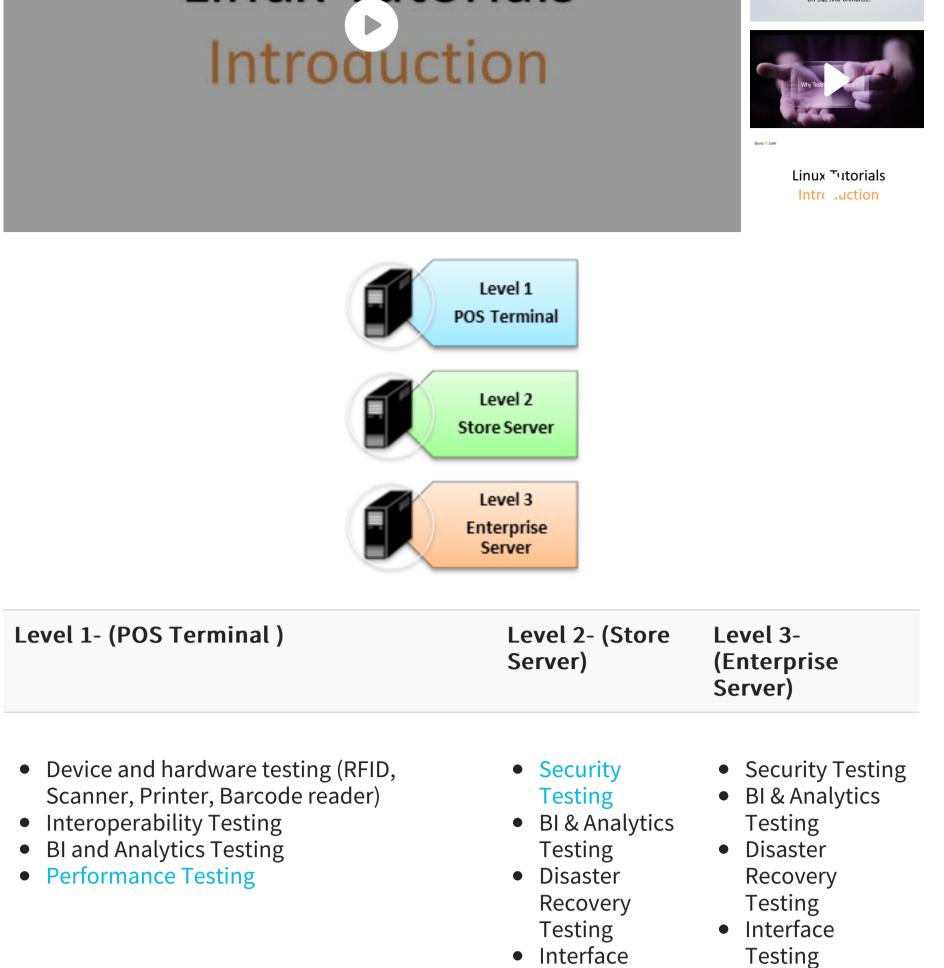
 Sample Test Cases for POS used in Retail • Security Testing for Retail POS Systems

- Challenges in POS testing
- Test Architecture for POS Application
- POS test architecture includes three components for testing POS terminal, store server, and enterprise server. Basically, it is classified into three levels for testing of POS
- **FEATURED VIDEOS**

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application.

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Testing

Testing Performed At Enterprise Level

Compliance Testing

Performance Testing

Data Migration

Test the entry of items purchased by a customer is correct

• Test the POS system is compatible with peripherals like RFID

Check petty cash management works as expected

Check cash drawer loans are handled properly

Test the validity of CVV number of Credit Card

Test swiping of cards from both sides and chips

• Check sales can be processed with debit/credit cards

Check for correct prices are displayed for merchandise

Test for billing details or shipping details in payment manager

Mobility

Interoperability Testing

Testing Performed At Application Level

Types of Testing for POS system

1. Application Level

2. Enterprise Level

Testing of POS System can be broken down into two levels

Software de Facturação Online

CloudInvoice by AlgarSoft

Sample Test Cases for POS used in Retail

testing spans many things like

Payment Gateway

Processing

Performance

Managing

Discounts

Tracking

Security &

Regulatory

Compliance

Report testing

part of enterprise testing

would be useful to hackers

Use vulnerability testing tools

• Multiple Configurations

Complex interfaces

Peripheral issues

• PCI compliance

• Test lab maintenance

Upgrades

Challenges in POS testing

execute and installed

customer's data

Promotions and

Functionality Testing

Compatibility Testing

Report Testing

Payment Gateway Testing

Test Scenario Test Cases Cashier activity

To ensure quality of the POS system, proper POS software testing is mandatory. The POS

• Test discounts are applied correctly

Verify store value cards can be used

Check totals and closings match

Reader, Bar Code Scanner etc.

 Verify that the captured card details are properly encrypted and decrypted Sales

• Check for loyalty membership purchase

• Check for a regular sale process

Test for "0" or null transaction

outlets or supply chain

item with a credit card

incase scanner don't work

request

number

are leveraged

item

accurate

confidential data

Test database consistency

identifier, check number and so on

• Testing of a trend analysis report

Test for online report generation

reflected in reports

customers buying history

• Tie UPC or barcodes to vendors

purchased

 Test for reference transaction Test the print format of the receipt generated • Verify that the correct code is generated for approved, hold or declined transactions **Return & Exchange** scenarios Make sure the in-house inventory is well integrated with other

• Check for exchange or return of an item with cash

Check whether system responds on exchange or return of an

Verify that system should allow entering bar-code manually

Verify system display both the current amount as well as the

Check for speed or time taken to receive a response or send a

Check the inventory by entering a wrong code for the item

Check how a system responds while entering a wrong invoice

• Test the response of system while entering an invalid date for

discount amount on an exchange of item if applicable

Check system process the sale with receipt or without a

(discounts/tax/ rebates etc.) Verify that the correct code is generated for approved, hold or declined transactions **Negative Scenarios**

> • Test system with expired card details Test with an invalid PIN for credit card

• Test for a negative transaction

promotional offers online items

Test the order management process

Check the transaction based rules are applicable

 Test system for various promotional offers on certain line items Test alert system that notifies end or beginning of seasonal offers • Test whether receipt print the exact discount or offers that

Test system for allocating wrong offers or discount online

Verify product data obtained after scanning a barcode is

Test system for various discount like a veteran discount,

seasonal discount, undergage or overgage discount etc.

 Verifying POS system as per regulatory compliances Test alert system that notifies security defenders

Test user profiles and access levels on the POS Software

Verify specific information about each tender cash, coupon

• Test information related to credit card transaction should be

• Test for the individual as well as consolidated reports of

Test for system response with incorrect customer data input

Test the database for recording customer's buying history like

Test system for allowing authorized access to customer's

(what they buy, how frequent they buy, etc.)

Make sure you can void a payment before posting

Security Testing for Retail POS Systems Some recent studies have Point of Sale Systems very high-security vulnerabilities. Following measures will help with security of POS Security testing in compliance with PCI standard is very crucial to be addressed as the

• Actively manage all software on the network so that only authorized software can only

• Conduct regular Penetration Testing to identify attack vectors and vulnerabilities

• Include tests for the presence of unprotected system information and artifacts that

• Create a testbed that imitate a production environment for specific penetration tests

• To reduce the risk and chances of POS failure during the transaction process, testing

• Your Testing should cover the following scenarios - Cashier activity, Payment Gateway

Processing, Sales, Return & Exchange scenarios, Performance, Negative Scenarios,

• Multiple configuration settings, peripheral issues, upgrades are few issues you will need

and attacks against elements that are not tested in production

Summary Retail POS demands a high level of testing keeping in mind that its performance and correct functioning directly affect business revenues.

under the extreme condition is essential.

to tide over while testing.

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testing type, conducted

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Testing needs to perform at Application as well as Enterprise Level

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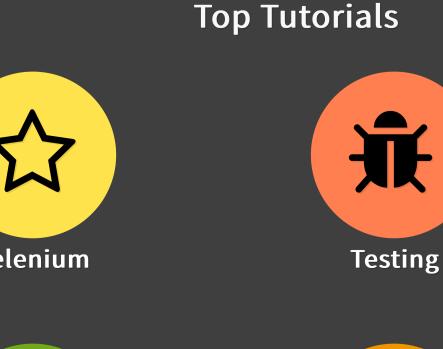
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