ISM 4432 Software Testing

Portfolio Project

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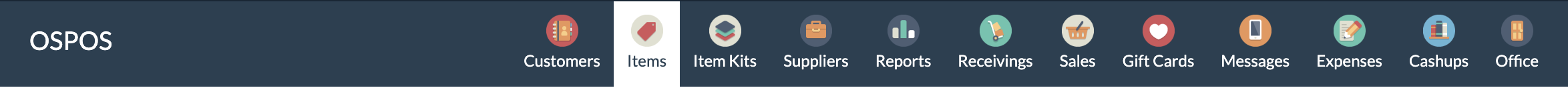
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# Introduction

Point-of-sale (POS) systems help businesses accept and process payments as well as manage many aspects of their operations, such as orders, inventory, employees, customer engagement, scheduling, and reporting. This report focuses on the functional testing of the open-source point-of-sale application OSPOS (<https://opensourcepos.org/>). The features of this POS web application being tested are Items, Suppliers, and Receivings.

## Items



The Items feature provides inventory management functionality for the organization and the test plan uses Boundary Testing to design test cases for validating the minimum and maximum ranges of each field. Automating these test cases will allow us to produce easily repeatable tests with each release of the application.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Required | Field Type | Max | Min |
| Barcode | No | String | 255 (Characters) | 1 (Character) |
| Item name | Yes | String | 255 (Characters) | 1 (Character) |
| Category | Yes | String | 255 (Characters) | 0 (Characters) |
| Tax 1 (name) | No | String | 255 (Characters) | 0 (Characters) |
| Tax 1 (value) | No | Number | 1,000,000,000,000 | -1,000,000,000,000 |
| Tax 2 (name) | No | String | 255 (Characters) | 0 (Characters) |
| Tax 2 (value) | No | Number | 1,000,000,000,000 | -1,000,000,000,000 |
| Description | No | String | 255 (Characters) | 0 (Characters) |
| Wholesale Price | Yes | Number | 1,000,000,000,000 | -1,000,000,000,000 |
| Retail Price | Yes | Number | 1,000,000,000,000 | -1,000,000,000,000 |
| Quantity Stock | Yes | Number | 1,000,000,000,000 | -1,000,000,000,000 |
| Receiving Quantity | Yes | Number | 1,000,000,000,000 | -1,000,000,000,000 |
| Reorder Level | Yes | Number | 1,000,000,000,000 | -1,000,000,000,000 |

Table 1 : Item Fields Under Test

|  |
| --- |
| Add Attribute |
| Stock Type |
| Item Type |
| Supplier |
| Avatar |
| Allow Alternate Description |
| Item has Serial Number |
| Deleted |

Table 2 : Item Fields Not Tested

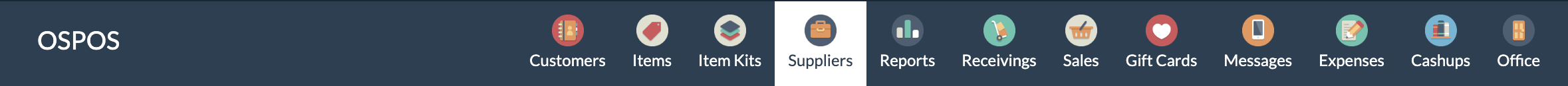
|  |  |  |
| --- | --- | --- |
|  | Numeric | String |
| MIN- | -1,000,000,000,001 | 0 characters |
| MIN | -1,000,000,000,000 | 1 character |
| MIN+ | -999,999,999,999 | 2 characters |
| NOM | 5 | 5 characters |
| MAX- | 999,999,999,999 | 254 characters |
| MAX | 1,000,000,000,000 | 255 characters |
| MAX+ | 1,000,000,000,001 | 256 characters |

Table 3 : Item Field Boundaries

|  |  |
| --- | --- |
| V1 | { -1,000,000,000,000 <= n <= 1,000,000,000,000 } |
| V2 | { n < -1,000,000,000,000 } |
| V3 | { n > 1,000,000,000,000 } |
| V4 | { Aa-Zz } |
| V5 | { all non-alphanumeric characters } |

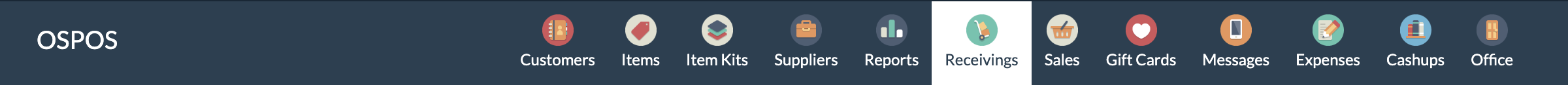
Table 4 : Item Field Equivalence Clases

## Suppliers



The Suppliers feature provides the capability of managing the suppliers that Items come from. The Test Plan for the Suppliers feature uses Exploratory Testing to exercise its functionality in unpredictable ways.

## Receivings



The Receivings feature gives the organization the ability to manage their inventory intake either from suppliers or by returns from customers. The Receivings test plan focuses on User Testing of the feature.

## Extras

During testing, the SUT underwent an update triggering a DB migration. When attempting to update the inventory of an Item from the item list I was prompted to log in but the login screen quickly closed and returned to the Home view but with all of the tabs vertically on the right instead of on the top of the page as it had been earlier. Because incrementally capturing this was not possible I recorded the issue (MSL4\_Extra.mov). Reviewing the video I was able to capture specific frames as shown below

Graphical user interface, application, Teams

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# References

|  |  |
| --- | --- |
| OpenSource POS | |
| Website | https://opensourcepos.org/ |
| Github | https://github.com/opensourcepos/opensourcepos |
| The following resources were used to better understand the supported boundaries of the PHP language | |
| Floating point numbers | <https://www.php.net/manual/en/language.types.float.php> |
|  | Max:  Min: |
| Integers | <https://www.php.net/manual/en/language.types.integer.php> |
|  | 32-bit  Max: 2147483647  Min: -2147483648  64-bit  Max: 9223372036854775807  Min: -9223372036854775808 |
|  |  |
| The following resources were used to better understand the supported boundaries of MariaDB | |
| FLOAT | https://mariadb.com/kb/en/float/ |
|  | -3.402823466E+38 to -1.175494351E-38  0  1.175494351E-38 to 3.402823466E+38. |
| INT |  |

# Test Cases

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case | Feature | Test | Status | Defect |
| MSL\_001 | Items | MAX+ field values single insert | Fail | MSLD\_001, MSLD\_002 |
| MSL\_002 | Items | MIN- field values single insert | Fail | MSLD\_001 |
| MSL\_003 | Items | Missing field values single insert | Pass |  |
| MSL\_004 | Items | MIN- bulk insert | Fail | MSLD\_003 |
| MSL\_005 | Items | MIN bulk insert | Pass |  |
| MSL\_006 | Items | MAX+ bulk insert | Fail | MSLD\_004 |
| MSL\_007 | Items | MIN bulk update | Pass |  |
| MSL\_008 | Items | MAX bulk update | Pass |  |
| MSL\_009 | Items | MIN delete | Pass |  |
| MSL\_010 | Items | MAX delete | Pass |  |
| MSL\_011 | Suppliers | Create new supplier (extreme values) | Fail | MSLD\_002 |
| MSL\_012 | Suppliers | Update supplier (remove contact) | Pass |  |
| MSL\_013 | Suppliers | Export suppliers | Fail | MSLD\_005 |
| MSL\_014 | Suppliers | Bulk email suppliers | Pass |  |
| MSL\_015 | Suppliers | Create new supplier with invalid data | Pass |  |
| MSL\_016 | Suppliers | Update supplier with invalid data | Pass |  |
| MSL\_017 | Suppliers | Update phone number to invalid value | Fail | MSLD\_006 |
| MSL\_018 | Suppliers | Search for suppliers | Pass |  |
| MSL\_019 | Suppliers | Delete suppliers | Pass |  |
| MSL\_020 | Suppliers | Create duplicate supplier | Pass |  |
| MSL\_021 | Receivers | Increase Inventory for a single item | Pass |  |
| MSL\_022 | Receivers | Increase inventory for multiple items | Pass |  |
| MSL\_023 | Receivers | Decrease inventory for multiple items | Pass |  |
| MSL\_024 | Receivers | Decrease inventory for multiple items (special case) | Fail | MSLD\_007 |
| MSL\_025 | Receivers | Create item and supplier | Pass |  |

## Items

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_001 |
| **Component** | Items |
| **Purpose of Test Case** | Test inserting items with MAX+ field values |
| **Functional Test Type** | Boundary |
| **Pre-Conditions** | OSPOS is up and running and <https://dev.opensourcepos.org/items> is accessible |
| **Inputs** | Numeric values will receive the value 9223372036854775807 |
| **Expected Outputs** | For money-formatted fields: $9,223,372,036,854,775,807.00  For other numeric fields: 9,223,372,036,854,775,807 |
| **Post-Conditions** | Money-formatted fields: $0.00  Other numeric fields: 0 |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The actual output did not match the input | Mandie Livingston | |  |  |  | |  |  |  | |

Text

Description automatically generated with low confidence

Graphical user interface, text, application, chat or text message

Description automatically generated

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_002 |
| **Component** | Items |
| **Purpose of Test Case** | Test inserting items with MIN- field values |
| **Functional Test Type** | Boundary |
| **Pre-Conditions** | OSPOS is up and running and <https://dev.opensourcepos.org/items> is accessible |
| **Inputs** | Numeric values will receive the value -9223372036854775808 |
| **Expected Outputs** | For money-formatted fields: $-9,223,372,036,854,775,807.00  For other numeric fields: -9,223,372,036,854,775,807 |
| **Post-Conditions** | Money-formatted fields: $0.00  Other numeric fields: 0 |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The actual output did not match the input | Mandie Livingston | |  |  |  | |  |  |  | |

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Description automatically generated 

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_003 |
| **Component** | Items |
| **Purpose of Test Case** | Test inserting items with missing required fields |
| **Functional Test Type** | Boundary |
| **Pre-Conditions** | OSPOS is up and running and <https://dev.opensourcepos.org/items> is accessible |
| **Inputs** | Fill out the form as normal but do not populate the following fields:  Item Name  Category  Wholesale Price  Retail Price  Quantity Stock  Receiving Quantity  Reorder Level |
| **Expected Outputs** |  |
| **Post-Conditions** | Money-formatted fields: $0.00  Other numeric fields: 0 |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | Error messages displayed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

Graphical user interface, text, application, chat or text message, email

Description automatically generated

Text

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Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_004 |
| **Component** | Items |
| **Purpose of Test Case** | Test bulk uploading records with empty CSV |
| **Functional Test Type** | Boundary |
| **Pre-Conditions** | OSPOS is up and running and <https://dev.opensourcepos.org/items> is accessible |
| **Inputs** | Use the template downloaded from the CSV Import dialog and upload without adding any records to it |
| **Expected Outputs** | A message indicating that no records were added |
| **Post-Conditions** | “CSV Imported Successfully” displayed |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The actual output did not match the input | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_005 |
| **Component** | Items |
| **Purpose of Test Case** | Test bulk insert a single record |
| **Functional Test Type** | Boundary |
| **Pre-Conditions** | OSPOS is up and running and <https://dev.opensourcepos.org/items> is accessible |
| **Inputs** | Upload the attached OSPOS\_MSL\_Items\_1.csv with a single record in it |
| **Expected Outputs** | A single record is added to the items list |
| **Post-Conditions** | A single record is added to the items list |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The actual output did not match the input | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_006 |
| **Component** | Items |
| **Purpose of Test Case** | Bulk insert more than the maximum supported import count |
| **Functional Test Type** | Boundary |
| **Pre-Conditions** | OSPOS is up and running and <https://dev.opensourcepos.org/items> is accessible |
| **Inputs** | Use the attached OSPOS\_MSL\_Items\_10000.csv containing 10,000 records to upload with the CSV Import functionality |
| **Expected Outputs** | All records are imported |
| **Post-Conditions** | No records are imported |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The actual output did not match the input | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_007 |
| **Component** | Items |
| **Purpose of Test Case** | Use the Bulk Update functionality to change a single item |
| **Functional Test Type** | Boundary |
| **Pre-Conditions** | OSPOS is up and running and <https://dev.opensourcepos.org/items> is accessible |
| **Inputs** | Ensure a Supplier has been configured in the system  Ensure at least one item has been added that does not have the configured Supplier  Select the item in the item view, click Bulk Update, change the Supplier |
| **Expected Outputs** | The Supplier changes to the selected value |
| **Post-Conditions** | The Supplier changes to the selected value |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The operation completed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_008 |
| **Component** | Items |
| **Purpose of Test Case** | Use the Bulk Update functionality to change 100 items |
| **Functional Test Type** | Boundary |
| **Pre-Conditions** | OSPOS is up and running and <https://dev.opensourcepos.org/items> is accessible |
| **Inputs** | Ensure a Supplier has been configured in the system  If there aren’t enough items to delete the maximum of 100 items at a time use the attached OSPOS\_MSL\_Items\_1000.csv to import 1000 items into the system  Change the number of items in the list to the maximum count (100) to display more items  Select all of the items, click the Bulk Update button, and change the Supplier to one that is configured in the system |
| **Expected Outputs** | All items are updated with the new Supplier |
| **Post-Conditions** | All items are updated with the new Supplier |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The operation completed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_009 |
| **Component** | Items |
| **Purpose of Test Case** | Use the Bulk Delete functionality to delete a single item |
| **Functional Test Type** | Boundary |
| **Pre-Conditions** | OSPOS is up and running and <https://dev.opensourcepos.org/items> is accessible |
| **Inputs** | At least one items needs to be in the items list to be selected for deletion |
| **Expected Outputs** | The selected item is deleted |
| **Post-Conditions** | The selected item is deleted |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The operation completed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_010 |
| **Component** | Items |
| **Purpose of Test Case** | Use the Bulk Delete functionality to delete 100 items |
| **Functional Test Type** | Boundary |
| **Pre-Conditions** | OSPOS is up and running and <https://dev.opensourcepos.org/items> is accessible |
| **Inputs** | If there aren’t enough items to delete the maximum of 100 items at a time use the attached OSPOS\_MSL\_Items\_1000.csv to import 1000 items into the system  Change the number of items in the list to the maximum count (100) to display more items |
| **Expected Outputs** | All the selected items are deleted |
| **Post-Conditions** | All the selected items are deleted |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The operation completed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

## Suppliers

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_011 |
| **Component** | Suppliers |
| **Purpose of Test Case** | Create a new supplier |
| **Functional Test Type** | Exploratory |
| **Pre-Conditions** | OSPOS is up and running and <https://demo.opensourcepos.org/suppliers> is accessible |
| **Inputs** |  |
| **Expected Outputs** |  |
| **Post-Conditions** |  |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The operation completed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_012 |
| **Component** | Suppliers |
| **Purpose of Test Case** | Update a supplier to remove contact information |
| **Functional Test Type** | Exploratory |
| **Pre-Conditions** | OSPOS is up and running and <https://demo.opensourcepos.org/suppliers> is accessible |
| **Inputs** | Ensure a supplier has been entered in the system  Remove the supplier’s phone number and email address |
| **Expected Outputs** | Bulk email is disabled on items list  Phone icon on item is removed |
| **Post-Conditions** | Item list updates as expected |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The operation completed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_013 |
| **Component** | Suppliers |
| **Purpose of Test Case** | Export suppliers |
| **Functional Test Type** | Exploratory |
| **Pre-Conditions** | OSPOS is up and running and <https://demo.opensourcepos.org/suppliers> is accessible |
| **Inputs** | Export suppliers to each file format:  JSON  XML  CSV  TXT  SQL  MS-Excel  PDF |
| **Expected Outputs** | All exported file types open correctly and contain the same data |
| **Post-Conditions** | Not all opened without error and did not contain the same data |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The actual output did not match the expected output | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_014 |
| **Component** | Suppliers |
| **Purpose of Test Case** | Bulk email suppliers |
| **Functional Test Type** | Exploratory |
| **Pre-Conditions** | OSPOS is up and running and <https://demo.opensourcepos.org/suppliers> is accessible |
| **Inputs** | Ensure that multiple suppliers with email addresses have been configured |
| **Expected Outputs** | Local email client launches with all the email addresses from the selected suppliers |
| **Post-Conditions** | Local email client launches with all the email addresses from the selected suppliers |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The operation completed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_015 |
| **Component** | Suppliers |
| **Purpose of Test Case** | Create a new supplier with invalid data |
| **Functional Test Type** | Exploratory |
| **Pre-Conditions** | OSPOS is up and running and <https://demo.opensourcepos.org/suppliers> is accessible |
| **Inputs** | Don’t populate required fields  Don’t format email address correctly |
| **Expected Outputs** | Appropriate error messages are displayed |
| **Post-Conditions** | Error messages are displayed as expected |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The operation completed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_016 |
| **Component** | Suppliers |
| **Purpose of Test Case** | Update suppliers with invalid data |
| **Functional Test Type** | Exploratory |
| **Pre-Conditions** | OSPOS is up and running and <https://demo.opensourcepos.org/suppliers> is accessible |
| **Inputs** | Remove all required content and improperly format the email address |
| **Expected Outputs** | Appropriate error messages are displayed |
| **Post-Conditions** | Error messages are displayed as expected |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The operation completed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_017 |
| **Component** | Suppliers |
| **Purpose of Test Case** | Set supplier phone number to invalid value |
| **Functional Test Type** | Exploratory |
| **Pre-Conditions** | OSPOS is up and running and <https://demo.opensourcepos.org/suppliers> is accessible |
| **Inputs** | Either add a new supplier or update an existing supplier with an invalid phone number |
| **Expected Outputs** | An error message is displayed indicating an invalid phone number |
| **Post-Conditions** | No error message is displayed and the invalid number is saved |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The actual output did not match the expected output | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_018 |
| **Component** | Suppliers |
| **Purpose of Test Case** | Search for suppliers |
| **Functional Test Type** | Exploratory |
| **Pre-Conditions** | OSPOS is up and running and <https://demo.opensourcepos.org/suppliers> is accessible |
| **Inputs** | Ensure multiple suppliers have been entered into the system |
| **Expected Outputs** | Filtered list of suppliers based on search criteria |
| **Post-Conditions** | List accurately filtered |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The operation completed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_019 |
| **Component** | Suppliers |
| **Purpose of Test Case** | Delete suppliers |
| **Functional Test Type** | Exploratory |
| **Pre-Conditions** | OSPOS is up and running and <https://demo.opensourcepos.org/suppliers> is accessible |
| **Inputs** | Ensure multiple suppliers have been inserted into the system  Select up to all suppliers and click the Delete button |
| **Expected Outputs** | Selected suppliers are deleted |
| **Post-Conditions** | Selected suppliers are deleted |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The operation completed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_020 |
| **Component** | Suppliers |
| **Purpose of Test Case** | Create duplicate supplier |
| **Functional Test Type** | Exploratory |
| **Pre-Conditions** | OSPOS is up and running and <https://demo.opensourcepos.org/suppliers> is accessible |
| **Inputs** | Execute “MSL\_10: New Supplier” test from OSPOS Selenium Test Suite attached to insert a new supplier  Execute the same test a second time to insert a duplicate supplier |
| **Expected Outputs** | Fail with error message |
| **Post-Conditions** | Failed as expected; no duplicate supplier added |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The operation completed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

## Receivings

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_021 |
| **Component** | Receivers |
| **Purpose of Test Case** | Add inventory for a single item |
| **Functional Test Type** | Exploratory |
| **Pre-Conditions** | OSPOS is up and running and <https://demo.opensourcepos.org/receivings> is accessible  Ensure at least one supplier is in the system by executing “MSL\_10: New Supplier” test from “OSPOS.side” Selenium Test Suite attached  Ensure items are in the system by importing “OSPOS\_MSL\_Items\_100.csv” |
| **Inputs** | Navigate to <https://demo.opensourcepos.org/receivings>  Enter “Item 12” into the search  Select “Item 12” from the expanded item list  Verify Item 12 is listed  Change Qty to 2  Change Discount to 12  Click Finish button |
| **Expected Outputs** | A receivables invoice is generated with a price of $2.64  Verify the Quantity of Item 12 on the Items tab has increased by 2 |
| **Post-Conditions** | Invoice created and inventory increased as expected |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The operation completed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_022 |
| **Component** | Receivers |
| **Purpose of Test Case** | Add inventory to multiple items |
| **Functional Test Type** | Exploratory |
| **Pre-Conditions** | OSPOS is up and running and <https://demo.opensourcepos.org/receivings> is accessible  Ensure at least one supplier is in the system by executing “MSL\_10: New Supplier” test from “OSPOS.side” Selenium Test Suite attached  Ensure items are in the system by importing “OSPOS\_MSL\_Items\_100.csv” |
| **Inputs** | Navigate to <https://demo.opensourcepos.org/receivings>  Enter “Item 12” into the search  Select “Item 12” from the expanded item list  Verify Item 12 is present in items list  Change Qty to 2  Change Discount to 12  Enter “Item 1” into the search  Select Item 11 from the expanded list of items starting with ‘Item 1’  Verify Item 11 is present in items list  Change Qty to 4  Change Discount to 28  Click Finish button |
| **Expected Outputs** | A receivables invoice is generated with a price of $6.96  Verify Item 12 has increased in Quantity by 2  Verify Item 11 has increased in Quantity by 4 |
| **Post-Conditions** | Receivables invoice generated and inventory increases occurred as expected |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The operation completed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_023 |
| **Component** | Receivers |
| **Purpose of Test Case** | Reduce inventory in multiple items |
| **Functional Test Type** | Exploratory |
| **Pre-Conditions** | OSPOS is up and running and <https://demo.opensourcepos.org/receivings> is accessible  Ensure at least one supplier is in the system by executing “MSL\_10: New Supplier” test from “OSPOS.side” Selenium Test Suite attached  Ensure items are in the system by importing “OSPOS\_MSL\_Items\_100.csv”  Execute the steps in Test Case MSL\_022 to ensure Items 11 and 12 have at least a Quantity of 4 and 2 respectively |
| **Inputs** | Navigate to <https://demo.opensourcepos.org/receivings>  Enter “Item 12” into the search  Select “Item 12” from the expanded item list  Verify Item 12 is present in items list  Change Qty to -2  Enter “Item 1” into the search  Select Item 11 from the expanded list of items starting with ‘Item 1’  Verify Item 11 is present in items list  Change Qty to -4  Change Receiving Mode to Return  Click Finish button |
| **Expected Outputs** | A receivables invoice is generated  Verify Item 12 has decreased in Quantity by 2  Verify Item 11 has decreased in Quantity by 4 |
| **Post-Conditions** | Receivables invoice generated and inventory increases occurred as expected |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The operation completed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_024 |
| **Component** | Receivers |
| **Purpose of Test Case** | Reduce inventory in multiple items |
| **Functional Test Type** | Exploratory |
| **Pre-Conditions** | OSPOS is up and running and <https://demo.opensourcepos.org/receivings> is accessible  Ensure at least one supplier is in the system by executing “MSL\_10: New Supplier” test from “OSPOS.side” Selenium Test Suite attached  Ensure items are in the system by importing “OSPOS\_MSL\_Items\_100.csv”  Execute the steps in Test Case MSL\_022 to ensure Items 11 and 12 have at least a Quantity of 4 and 2 respectively |
| **Inputs** | Navigate to <https://demo.opensourcepos.org/receivings>  Change Receiving Mode to Return  Enter “Item” into the search  Select “Item 12” from the expanded item list  Verify Item 12 is present in items list  Enter “Item” into the search  Select Item 11 from the expanded list of items  Verify Item 11 is present in items list  Change Qty of Item 11 to -2  Click in Qty of Item 12  Change Qty to -4 (do not click anywhere else before next step)  Click Finish button |
| **Expected Outputs** | A receivables invoice is generated  Verify Item 12 has decreased in Quantity by 2  Verify Item 11 has decreased in Quantity by 4 |
| **Post-Conditions** | Receivables invoice generated and inventory increases occurred as expected |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The operation completed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

Test Case Report

|  |  |
| --- | --- |
| **Test Case ID** | MSL\_025 |
| **Component** | Receivers |
| **Purpose of Test Case** | Create new item and supplier from receivers tab |
| **Functional Test Type** | Exploratory |
| **Pre-Conditions** | OSPOS is up and running and <https://demo.opensourcepos.org/receivings> is accessible |
| **Inputs** | Navigate to <https://demo.opensourcepos.org/receivings>  Click New Supplier  Company Name: Golden Supplier  Agency Name: Shiny Supplies  Category: Goods Supplier  Last Name: Doe  First Name: Jane  Email: [no@email.com](mailto:no@email.com)  Phone Number: 123.456.7890  Click the Submit button  Verify the new supplier is listed  Click the Suppliers tab to confirm the supplier has been added and is listed in the suppliers list  Click New Item  Enter the following values:  Item Name: Item 101  Category: Category 4  Company Name: Select “Golden Supplier” supplier  Wholesale Price: $2.95  Retail Price: $3.99  Quantity stock: 5  Receiving Quantity: 2  Reorder Level: 1  Click the Submit button  Verify the new item is listed, has “[5 in stock]”, Ship Pack is x2, and all of the prices match the values entered  Click Items tab to verify the new item has been added and contains the appropriate values  Click the Receivers tab  Confirm the new item and supplier are still populated in the form |
| **Expected Outputs** | The new Supplier is properly added  The new Item can be immediately connected to the new Supplier and is properly added |
| **Post-Conditions** | Application behaved as expected |
| **Execution History** | |  |  |  | | --- | --- | --- | | **Date** | **Result** | **Tester** | |  | The operation completed as expected | Mandie Livingston | |  |  |  | |  |  |  | |

# Test Results

DEFECT REPORTING FORM

**DEFECT ID: MSLD\_00**

**TITLE:**

**COMPONENT:**

**REPORTED BY: Mandie Livingston SUBCOMPONENT:**

**REPORTED ON: VERSION: 3.3.6 - b309b6**

**PLATFORM: macOS RESOLUTION PRIORITY:**

**OPERATING SYSTEM: Big Sur 11.6.5 RESOLUTION SEVERITY:**

**RELATED TEST CASE IDS: CONSISTENCY:**

**DEFECT SUMMARY:**

**STEPS TO REPRODUCE:**

**COMMENTS:**

**ATTACHMENTS:**

1.

2.

**For evaluators use only**

**DEFECT STATUS: \_\_\_\_\_\_\_\_\_APPROVED \_\_\_\_\_\_\_\_\_ REJECTED**

**REASON:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DEFECT REPORTING FORM

**DEFECT ID: MSLD\_001**

**TITLE: Extreme numeric values are not saved as entered**

**COMPONENT: Items**

**REPORTED BY: Mandie Livingston SUBCOMPONENT: Create**

**REPORTED ON: VERSION: 3.3.6 - b309b6**

**PLATFORM: macOS RESOLUTION PRIORITY:**

**OPERATING SYSTEM: Big Sur 11.6.5 RESOLUTION SEVERITY:**

**RELATED TEST CASE IDS: MSL\_001, MSL\_002 CONSISTENCY:**

**DEFECT SUMMARY:**

**Entering numeric values that are too big results in the value assigned as 0 without users prompted with an error or warning message.**

**STEPS TO REPRODUCE:**

**Navigate to** [**https://dev.opensourcepos.org/items**](https://dev.opensourcepos.org/items) **and click the New Item button**

**Fill out the form as normal except for the numeric entries, use the value 9223372036854775807 or -9223372036854775808.**

**Click the Submit button to add the new item.**

**Notice the newly inserted item in the items list has 0 for all numeric fields where the extreme value had been entered.**

**COMMENTS:**

**Users should be notified when entering invalid data. An application should not insert data other than what the user has intended.**

**ATTACHMENTS:**

1. Graphical user interface, application

Description automatically generated

2.

**For evaluators use only**

**DEFECT STATUS: \_\_\_\_\_\_\_\_\_APPROVED \_\_\_\_\_\_\_\_\_ REJECTED**

**REASON:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Graphical user interface, application

Description automatically generated**

**Graphical user interface, text, application

Description automatically generated with medium confidence**

**Graphical user interface, text, application, chat or text message

Description automatically generated**

DEFECT REPORTING FORM

**DEFECT ID: MSLD\_002**

**TITLE: Text lengths greater than 258 characters are truncated**

**COMPONENT: Items**

**REPORTED BY: Mandie Livingston SUBCOMPONENT: Create**

**REPORTED ON: VERSION: 3.3.6 - b309b6**

**PLATFORM: macOS RESOLUTION PRIORITY:**

**OPERATING SYSTEM: Big Sur 11.6.5 RESOLUTION SEVERITY:**

**RELATED TEST CASE IDS: MSL\_001, CONSISTENCY:**

**DEFECT SUMMARY:**

**Entering text longer than 258 characters results in the value being truncated without the user being prompted with an error or warning message.**

**STEPS TO REPRODUCE:**

**Navigate to** [**https://dev.opensourcepos.org/items**](https://dev.opensourcepos.org/items) **and click the New Item button**

**Fill out the form as normal except for the text entries, use the value “**xxxxxxxx10xxxxxxxx20xxxxxxxx30xxxxxxxx40xxxxxxxx50xxxxxxxx60xxxxxxxx70xxxxxxxx80xxxxxxxx90xxxxxxx100xxxxxxx110xxxxxxx120xxxxxxx130xxxxxxx140xxxxxxx150xxxxxxx160xxxxxxx170xxxxxxx180xxxxxxx190xxxxxxx200xxxxxxx210xxxxxxx220xxxxxxx230xxxxxxx240xxxxxxx250xxxxxxx260**”.**

**Click the Submit button to add the new item.**

**Notice all the text fields are truncated to “**xxxxxxxx10xxxxxxxx20xxxxxxxx30xxxxxxxx40xxxxxxxx50xxxxxxxx60xxxxxxxx70xxxxxxxx80xxxxxxxx90xxxxxxx100xxxxxxx110xxxxxxx120xxxxxxx130xxxxxxx140xxxxxxx150xxxxxxx160xxxxxxx170xxxxxxx180xxxxxxx190xxxxxxx200xxxxxxx210xxxxxxx220xxxxxxx230xxxxxxx240xxxxxxx250xxxxx**”.**

**COMMENTS:**

**Users should be notified when entering invalid data. An application should not insert data other than what the user has intended.**

**ATTACHMENTS:**

1. Graphical user interface, application

Description automatically generated

2.

**For evaluators use only**

**DEFECT STATUS: \_\_\_\_\_\_\_\_\_APPROVED \_\_\_\_\_\_\_\_\_ REJECTED**

**REASON:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Graphical user interface, application

Description automatically generated**

**Graphical user interface, text, application

Description automatically generated with medium confidence**

**Graphical user interface, text, application, chat or text message

Description automatically generated**

DEFECT REPORTING FORM

**DEFECT ID: MSLD\_003**

**TITLE: Bulk inserting too many records fails without notification COMPONENT: Items**

**REPORTED BY: Mandie Livingston SUBCOMPONENT: Create**

**REPORTED ON: VERSION: 3.3.6 - b309b6**

**PLATFORM: macOS RESOLUTION PRIORITY:**

**OPERATING SYSTEM: Big Sure 11.6.5 RESOLUTION SEVERITY:**

**RELATED TEST CASE IDS: MSL\_005, MSL\_006 CONSISTENCY:**

**DEFECT SUMMARY:**

**Attempting to bulk insert 10,000 records fails without notifying the user. The error message was only found in the Chrome dev tools console as “Failed to load resource: the server responded with a status of 413 (Request Entity Too Large)”**

**STEPS TO REPRODUCE:**

**Navigate to** [**https://dev.opensourcepos.org/items**](https://dev.opensourcepos.org/items) **and click the CSV Insert button**

**Navigate to CSV file OSPOS\_MSL\_006.csv containing 10,000 records (attached)**

**Click the Submit button**

**COMMENTS:**

**Nothing appears to happen except the Submit button goes grey. Checking the console in the Chrome Dev Tools shows the error response from the backend.**

**When a failure occurs, the user should be prompted with an error message so that they can take appropriate action.**

**ATTACHMENTS:**

1. Graphical user interface, application, Teams

Description automatically generated

2. Graphical user interface, application

Description automatically generated

3. 

**For evaluators use only**

**DEFECT STATUS: \_\_\_\_\_\_\_\_\_APPROVED \_\_\_\_\_\_\_\_\_ REJECTED**

**REASON:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DEFECT REPORTING FORM

**DEFECT ID: MSLD\_004**

**TITLE: Bulk inserting records does not treat large numbers the same as single item create**

**COMPONENT: Items**

**REPORTED BY: Mandie Livingston SUBCOMPONENT: Create**

**REPORTED ON: VERSION: 3.3.6 - b309b6**

**PLATFORM: macOS RESOLUTION PRIORITY:**

**OPERATING SYSTEM: Big Sure 11.6.5 RESOLUTION SEVERITY:**

**RELATED TEST CASE IDS: MSL\_005, MSL\_006 CONSISTENCY:**

**DEFECT SUMMARY:**

**Single item inserts through the UI change extremely large numbers (9223372036854775807) to 0 (see MSLD\_001) whereas the bulk inserts will set them to**

**STEPS TO REPRODUCE:**

**Navigate to** [**https://dev.opensourcepos.org/items**](https://dev.opensourcepos.org/items) **and click the CSV Insert button**

**Navigate to CSV file OSPOS\_MSL\_005\_1.csv containing 10 records (attached)**

**Click the Submit button**

**COMMENTS:**

**Nothing appears to happen except the Submit button goes grey. Checking the console in the Chrome Dev Tools shows the error response from the backend.**

**When a failure occurs, the user should be prompted with an error message so that they can take appropriate action.**

**ATTACHMENTS:**

1.

2.

3.

**For evaluators use only**

**DEFECT STATUS: \_\_\_\_\_\_\_\_\_APPROVED \_\_\_\_\_\_\_\_\_ REJECTED**

**REASON:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DEFECT REPORTING FORM

**DEFECT ID: MSLD\_005**

**TITLE: Exported suppliers do not contain same data across all exported formats**

**COMPONENT: Suppliers**

**REPORTED BY: Mandie Livingston SUBCOMPONENT: Export**

**REPORTED ON: VERSION: 3.3.6 - b309b6**

**PLATFORM: macOS RESOLUTION PRIORITY:**

**OPERATING SYSTEM: Big Sure 11.6.5 RESOLUTION SEVERITY:**

**RELATED TEST CASE IDS: MSL\_013 CONSISTENCY:**

**DEFECT SUMMARY:**

**The exported supplier data for each file format does not match**

**STEPS TO REPRODUCE:**

**Ensure that multiple suppliers have been added to the system and that they all do not have the same contact information**

**Navigate to** [**https://demo.opensourcepos.org/suppliers**](https://demo.opensourcepos.org/suppliers) **and click the Export data button**

**Select the JSON file type**

**Repeat with each of the other file types: XML, CSV, TXT, SQL, MS-Excel, PDF**

**COMMENTS:**

**JSON: Contained HTML elements (see attached OSPOS\_MSLD\_005.json)**

**XML: Contained HTML elements (see attached OSPOS\_MSLD\_005.xml)**

**CSV: Contained HTML elements (see attached OSPOS\_MSLD\_005.csv)**

**TXT: Contained HTML elements (see attached OSPOS\_MSLD\_005.txt)**

**SQL: Contained HTML elements (see attached OSPOS\_MSLD\_005.sql)**

**MS-Excel: Opened with error message suggesting the file may be corrupt (see attached OSPOS\_MSLD\_005.xls)**

**PDF: Exported as expected (see attached OSPOS\_MSLD\_005.pdf)**

**Exported data should**

**ATTACHMENTS:**

1.

2.

3.

**For evaluators use only**

**DEFECT STATUS: \_\_\_\_\_\_\_\_\_APPROVED \_\_\_\_\_\_\_\_\_ REJECTED**

**REASON:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DEFECT REPORTING FORM

**DEFECT ID: MSLD\_006**

**TITLE: Set invalid phone number on supplier**

**COMPONENT:**

**REPORTED BY: Mandie Livingston SUBCOMPONENT:**

**REPORTED ON: VERSION: 3.3.6 - b309b6**

**PLATFORM: macOS RESOLUTION PRIORITY:**

**OPERATING SYSTEM: Big Sure 11.6.5 RESOLUTION SEVERITY:**

**RELATED TEST CASE IDS: MSL\_017 CONSISTENCY:**

**DEFECT SUMMARY:**

**A supplier can have an invalid value set for a phone number without an error or warning message displayed to the user**

**STEPS TO REPRODUCE:**

**Create a new or select an existing supplier**

**Ensure that all required fields are populated**

**For the phone number field enter “not a phone number”**

**Click Submit to create a new supplier or update the existing one**

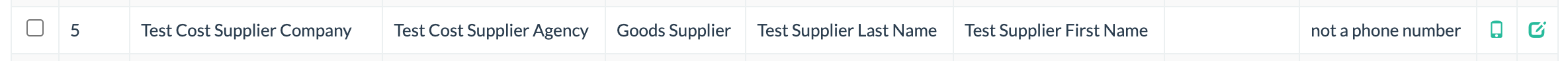
**COMMENTS:**

**An error message like an improperly formatted email address should display informing the user of their error.**

**The Message icon should not display for supplies with invalid phone numbers**

**When clicking the Message icon on the Suppliers list for a supplier with an invalid phone number an error message is displayed on the Send SMS form when moving out of the phone number field or when clicking submit to send a message**

**ATTACHMENTS:**

1. 

2. Graphical user interface, application

Description automatically generated

3.

**For evaluators use only**

**DEFECT STATUS: \_\_\_\_\_\_\_\_\_APPROVED \_\_\_\_\_\_\_\_\_ REJECTED**

**REASON:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DEFECT REPORTING FORM

**DEFECT ID: MSLD\_007**

**TITLE: Insertion point moves back to search box after each field update**

**COMPONENT: Receivables**

**REPORTED BY: Mandie Livingston SUBCOMPONENT:**

**REPORTED ON: VERSION: 3.3.6 - b309b6**

**PLATFORM: macOS RESOLUTION PRIORITY:**

**OPERATING SYSTEM: Big Sure 11.6.5 RESOLUTION SEVERITY:**

**RELATED TEST CASE IDS: MSL\_024 CONSISTENCY:**

**DEFECT SUMMARY:**

**When moving the insertion point out of an item field that has changed the page refreshes and the insertion point moves back to the search box. This interrupts the flow of typing between fields by requiring the manual (re)insertion of the insertion point to the next field**

**STEPS TO REPRODUCE:**

**Navigate to https://demo.opensourcepos.org/receivings**

**Enter “Item 12” into the search**

**Select “Item 12” from the expanded item list**

**Verify Item 12 is listed**

**Click in the Cost box and type 3**

**Press TAB to move the insertion point to the Qty field**

**Notice the Qty field is selected and then the item updates and the insertion point is back in the Search box.**

**COMMENTS:**

**Tabbing between fields enables the user experience to be more efficient and fluid. Requiring the user to use the mouse to click in each field is potentially disruptive to their workflow.**

**ATTACHMENTS:**

1.

2.

3.

**For evaluators use only**

**DEFECT STATUS: \_\_\_\_\_\_\_\_\_APPROVED \_\_\_\_\_\_\_\_\_ REJECTED**

**REASON:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DEFECT REPORTING FORM

**DEFECT ID: MSLD\_008**

**TITLE: Session expiration causes confusing behavior**

**COMPONENT:**

**REPORTED BY: Mandie Livingston SUBCOMPONENT:**

**REPORTED ON: VERSION: 3.3.6 - b309b6**

**PLATFORM: macOS RESOLUTION PRIORITY:**

**OPERATING SYSTEM: Big Sure 11.6.5 RESOLUTION SEVERITY:**

**RELATED TEST CASE IDS: CONSISTENCY:**

**DEFECT SUMMARY:**

**When the users’ session expires the user is not clearly notified to log back in to continue working**

**STEPS TO REPRODUCE:**

**This is not something that can be reproduced by the user.**

**Rebuilding the system on the server will cause the user’s session to expire**

**COMMENTS:**

**Please see the attached video OSPOS\_MSL4\_Extras.mov**

**ATTACHMENTS:**

1.

Graphical user interface, application, Teams

Description automatically generated

2. Shape

Description automatically generated

3.

**For evaluators use only**

**DEFECT STATUS: \_\_\_\_\_\_\_\_\_APPROVED \_\_\_\_\_\_\_\_\_ REJECTED**

**REASON:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_