

SRS Test Case

2.2.1 P.O. Feature Area

Change Number Sequence

SRS Requirement Being Tested: 2.2.1.1

Description: The purchase order number will be auto-incremented by the system when the user initializes a new purchase order. An administrator will be able to change the number sequence on a purchase order to start the increment from a specified number.

Input: N/A

Expected Output: N/A

Test Results: Every new purchase order has a unique number associated with it, which increases sequentially with every new purchase order.

Pass/Fail: Pass

Select Vendor

SRS Requirement Being Tested: 2.2.1.2

Description: The user will be able to select a vendor from a list of all available vendors and designate that vendor as the vendor for the current purchase order.

Input: To complete this test the user must use the drop down menu for the vendor name box.

Expected Output: The results to this test is selecting the desired vendor name.

Test Results: The vendor was selected successfully from the drop down menu, and was then input into the vendor name box.

Pass/Fail: Pass

Vendor Address Auto Fill

SRS Requirement Being Tested: 2.2.1.3

Description: Each purchase order will be designated to a single vendor. When the user selects the vendor for the purchase order, the address/contact/other information will be automatically filled into their respective fields on the purchase order.

Input: N/A

Expected Output: N/A

Test Results: The address was successfully auto-filled when the vendor's name was selected.

Pass/Fail: Pass

ShipTo Address Auto Fill

SRS Requirement Being Tested: 2.2.1.4

Description: Each purchase order will have a ShipTo address. The majority of the time this address will be the address of the Upper Allen Fire Department. The user will be able to designate the UAFD as the ShipTo address and all necessary fields will be filled in.

Input: N/A

Expected Output: N/A

Test Results: The address was auto-filled when the UAFD was selected as the ShipTo address.

Pass/Fail: Pass

Date Auto Fill

SRS Requirement Being Tested: 2.2.1.5

Description: The date the purchase order was issued will be included in the creation of each purchase order. The user will have the option of clicking a button to have the current date filled in or input the date manually.

Input: N/A

Expected Output: N/A

Test Results: The date is auto filled when a new purchase order is created, and the user can input a different date if desired.

Pass/Fail: Pass

Designation for Purpose

SRS Requirement Being Tested: 2.2.1.6

Description: The database UI will provide a place on the purchase order to designate it for Administration, Training, and Operations. The designation will be stored in the database upon purchase order issuance by the user.

Input: The input for this function will be simply be selecting the designation for the purchase order.

Expected Output: The output will be the designation showing on the purchase order in the designation for purpose textbox.

Test Results: The designation for the purchase order worked as it was designed, and showed up on the printed out copy of the purchase order.

Pass/Fail: Pass

Add Line Item

SRS Requirement Being Tested: 2.2.1.7

Description: The user will be able to add one or more line items to the purchase order.

Input: All information pertaining to the new line item is input into the system.

Expected Output: The output should be an updated line item including the new product and all the information pertaining to that new product.

Test Results: Line items were added successfully to the purchase order.

Pass/Fail: Pass

Query Line Item

SRS Requirement Being Tested: 2.2.1.8

Description: The user will be able to lookup various inventory codes and descriptions from within the P.O. module and select them as line items on the current purchase order.

Input: The input for this test is the lookup field, which displays the text, but within the database query's the auto number assigned to that line item.

Expected Output: The output should be the program finding the product by using the given lookup information.

Test Results: Line items were queried and found successfully within the database.

Pass/Fail: Pass

Field Validation

SRS Requirement Being Tested: 2.2.1.9

Description: The program will not allow a user to proceed with the issuance of a purchase order if all of the necessary fields are not filled in. The program will perform field validation and error checking prior to the records being saved to the database. If no errors are present, the purchase order is saved. If there are errors or empty fields, a dialogue box will notify the user of those areas to be addressed and allow the user to continue correcting errors.

Input: To test this function the user will select a field and attempt to continue to another field without entering data into the selected field.

Expected Output: The output to this function is an alert window that will alert the user stating they must enter data into the selected field before continuing.

Test Results: All fields that were necessary were entered into the purchase order before the user was allowed to continue.

Pass/Fail: Pass

Delete Line Item

SRS Requirement Being Tested: 2.2.1.10

Description: After a line item has been entered onto the purchase order, the user will be able to remove it as long as the purchase order is not marked as complete.

Input: The input for this test will simply be the user identifying what line item to delete.

Expected Output: There is no output other than an updated inventory, which does not include the item just deleted.

Test Results: Line items were able to be removed as long as the purchase order was not marked as complete.

Pass/Fail: Pass

Edit Purchase Order

SRS Requirement Being Tested: 2.2.1.11

Description: After a purchase order has been completed, the user will be able to review it and make changes to it at any time until the purchase order is marked as complete.

Input: To test this function the user must bring up on the screen an incomplete purchase order. Then the “Edit this PO” button is selected. From there the user may edit any information that they would like.

Expected Output: The output to this test a purchase order with the necessary corrections made.

Test Results: Corrections and updates were able to be made to purchase orders as long as they were not marked complete.

Pass/Fail: Pass

Void Purchase Order

SRS Requirement Being Tested: 2.2.1.12

Description: The DBMS will not allow a purchase order to be deleted. Instead, if a purchase order is no longer valid, it will be marked as void by the user and designated as such in the database.

Input: To complete this test the user selects the “Check here to void this PO” check box.

Expected Output: The results of this test are a purchase order that cannot be edited and it will not be included in complete or incomplete purchase order queries.

Test Results: Once a user marks a purchase order as VOID that purchase order could not be edited, and was not included in complete or incomplete purchase order queries.

Pass/Fail: Pass

Type Of Sale Designation

SRS Requirement Being Tested: 2.2.1.13

Description: Each purchase order will have a type of sale designation that will specify the payment method (cash/credit/check) used to purchase the goods. The user will select the designation and the payment method will be stored in the database when the purchase order is complete.

Input: From the “Enter new purchase order” window the user elects which “type” of sale pertains to this purchase by selecting the proper “type” from the dropdown menu.

Expected Output: The output to this test should be a particular “type” entered into the proper field.

Test Results: The purchase order allowed only ways of payment in the drop down list to be acceptable.

Pass/Fail: Pass

Cost Center Designation

SRS Requirement Being Tested: 2.2.1.14

Description: Each purchase order will be designated to a specific cost center as specified by the user in terms of the pre-entered cost centers that will be inherent in the database.

Input: From the “Enter new purchase order” window the user elects which “cost center” of sale pertains to this purchase by selecting the proper “cost center” from the dropdown menu.

Expected Output: The output to this test should be a particular “cost center” entered into the proper field.

Test Results: The correct cost center was within the designated field, and until it was the purchase order could not be completed.

Pass/Fail: Pass

Purchasing Agent Designation

SRS Requirement Being Tested: 2.2.1.15

Description: With each purchase order the agent who is conducting the order will need to identify him or herself by entering their name before the transaction can be completed.

Input: From the “Enter new purchase order” window the user elects which “Your Name” of sale pertains to this purchase by selecting the proper “Your Name” from the dropdown menu.

Expected Output: The output to this test should be a particular “Your Name” entered into the proper field.

Test Results: The Purchasing Agent Designation field could only be filled in by one of the names within the drop down list, and the purchase order could not be completed before an agent was specified.

Pass/Fail: Pass

Purchasing Agent Authorization

SRS Requirement Being Tested: 2.2.1.16

Description: Along with the agent identifying themselves on initial login, they will also have to input a password before the purchase order can be completed. This will ensure that only qualified users will be able to make purchase orders.

Input: Upon entering into the Purchase Order database the user will have to enter their username and password.

Expected Output: The output to this test is entry into the system when the proper username and password are entered. If the incorrect username and password are entered then the user should not be allowed to enter the system.

Test Results: Only with proper username and password could you enter into the system.

Pass/Fail: Pass

Purchase Order Received Invoice

SRS Requirement Being Tested: 2.2.1.17

Description: The user will be able to specify on a previously issued purchase order that an invoice has been received in response to the purchasing process. The user will be able to input an invoice number and the database will store the invoice number for future reference.

Input: The input to this test is changing the status of the purchase order to "Invoice Received" on the "Enter New Purchase Order" window.

Expected Output: The output to this test is having that particular purchase order's status changed to "Invoice Received."

Test Results: Once "Invoice Received" is selected to be within the status input field, the system asks you for an invoice number.

Pass/Fail: Pass

Purchase Order Mark Complete

SRS Requirement Being Tested: 2.2.1.18

Description: Within each purchase order the agent will be able to specify whether the purchase order has been paid in full. This will allow agents to separate the purchase orders that have been completed, with those purchase orders that have not been paid for.

Input: Under the main menu the user will select "Print Reports" from there they must go to the following screen and select "Print list of purchase orders with invoices but not yet complete."

Expected Output: The output to this test is a printed copy of all the purchase orders that are not complete.

Test Results: Under the status input box the purchase order allowed the user to mark it as complete, and then if desired printed out a copy of the completed purchase order.

Pass/Fail: Pass

Create Purchase Order

SRS Requirement Being Tested: 2.2.1.19

Description: Once a purchase order has been filled out and is ready to be filed, the user will be able to initialize the purchase order transaction to be processed by the DBMS and save it into the database.

Input: From the “Main Menu” the user selects the first button called “Enter New Purchase Order.”

Expected Output: The selection of this button will bring up the “Enter New Purchase Order” window where the appropriate data will be entered in the empty fields.

Test Results: The user was able to create a new purchase order successfully.

Pass/Fail: Pass

Query Complete Purchase Order

SRS Requirement Being Tested: 2.2.1.20

Description: This function is used by other functions that have as their input a single purchase order such as Edit Purchase Order. This function accepts search criteria and returns results to select from.

Input: The input to this section is selecting “Print Reports” and from there the user may select “Print List of Completed Purchase Orders.”

Expected Output: The output of this test is a printed copy of a list of completed purchase orders.

Test Results: The user was able to query all completed purchase orders.

Pass/Fail: Pass

Query Outstanding Purchase Order

SRS Requirement Being Tested: 2.2.1.21

Description: This function is identical to the previous function except that the purchase order list that is searched is only those purchase orders that have not yet been received and are thus not marked as complete.

Input: The input to this section is selecting “Print Reports” from the initial menu from there the user may select either “Print List of purchase order waiting for invoices” or “Print list of purchase orders with invoices but not yet complete.”

Expected Output: The output of this test is a printed copy of a list of incomplete purchase orders.

Test Results: The user was able to query all outstanding purchase orders.

Pass/Fail: Pass

Query Vendor

SRS Requirement Being Tested: 2.2.1.22

Description: This function takes search criteria that the system manager specifies and searches the database for those vendors that match the search criteria and returns the results.

Input: This function is based on a look up box that is supplied by access.

Expected Output: The output of this test is basically the look up box providing the proper vendor that is sought.

Test Results: All vendors were able to be queried successfully.

Pass/Fail: Pass

Add Purchasing Agent

SRS Requirement Being Tested: 2.2.1.23

Description: To be effectual, the system will allow for the creation of new agent accounts so that we can manage the list of agents and give separate logon privileges and manage internal security.

Input: The inputs to this test are the purchasing agent's name.

Expected Output: The expected output of this test is a purchasing agent list with the name of the newly added purchasing agent.

Test Results: The user was able to successfully add a purchasing agent to the purchasing agent list.

Pass/Fail: Pass

Delete Purchasing Agent

SRS Requirement Being Tested: 2.2.1.24

Description: If an agent leaves or no longer needs to access the system, this feature allows for the deletion of that person from the list of those who have access rights to the system.

Input: N/A

Expected Output: N/A

Test Results:

Pass/Fail:

2.2.2 Vendor Feature Area

Add New Vendor

SRS Requirement Being Tested: 2.2.2.1

Description: The DBMS will post the user-supplied vendor information to the database for reference from the purchase order module.

Input: From the "Main Menu" the "tools" button is selected, which brings up a new window with the option of adding a new vendor.

Expected Output: Once that button is selected the user will be shown a screen that enables them to make the necessary additions.

Test Results: All of the features of the new vendor were added successfully, and were then saved to the database.

Pass/Fail: Pass

Edit Vendor

SRS Requirement Being Tested: 2.2.2.2

Description: Allows the user to retrieve and vendor record and edit vendor information such as address or phone number.

Input: From the "Main Menu" the "tools" button is selected, which brings up a new window with the option of editing the vendor.

Expected Output: Once that button is selected the user will be shown a screen that enables them to make the necessary changes.

Test Results: Vendor was able to be edited and the changed information was saved to the database successfully.

Pass/Fail: Pass

Delete Vendor

SRS Requirement Being Tested: 2.2.2.3

Description: The user will have the option of deleting vendors that no longer are associated with any purchase orders. The process of historical data archive necessary for this to function has not yet been determined in terms of details of functionality or necessity.

Input: N/A

Expected Output: N/A

Test Results:

Pass/Fail:

Query Vendor

SRS Requirement Being Tested: 2.2.2.4

Description: This function will allow the user to enter search criteria and will return search results based on user input to allow the user to select a record for view/update/delete.

Input: This is a Look up function provided by access that will fill in the field once the user starts typing the vendor's name.

Expected Output: The vendor's name will fill in automatically once the user starts typing, and the expected output will be results of the query.

Test Results: The correct results were formulated by using the query vendor option.

Pass/Fail: Pass

2.2.3 Inventory Feature Area

Add Line Item

SRS Requirement Being Tested: 2.2.3.1

Description: This function allows the user to add inventory items into the database for reference from the purchase order module.

Input: All information pertaining to the new line item is input into the system.

Expected Output: The output of this test should be a new line item including all of the information pertaining to the new product.

Test Results: New line items were successfully added to the database.

Pass/Fail: Pass

Edit Line Item

SRS Requirement Being Tested: 2.2.3.2

Description: This feature will use the same interface as the Add Inventory Item function and will allow the user to edit various aspects of any given item.

Input: The inputs will be updated or corrected numbers and descriptions.

Expected Output: The output of this test should be an updated line item.

Test Results: Line items were able to be edited and then successfully saved again to the database.

Pass/Fail: Pass

Query Line Item

SRS Requirement Being Tested: 2.2.3.3

Description: This feature allows the user to search for inventory items in the database and display relevant information in a form that will not allow for data modification.

Input: The input for this test is the lookup field, which displays the text, but within the database query's the auto number assigned to that line item.

Expected Output: The output should be the program finding the product by using the given lookup data.

Test Results: The expected results were formulated, and the query worked as anticipated.

Pass/Fail: Pass

Delete Line Item

SRS Requirement Being Tested: 2.2.3.4

Description: This feature will allow the user to delete from the database various inventory items that they select.

Input: The input for this test will simply be the user signifying what line item to delete.

Expected Output: There is no output other than an updated inventory, which does not include the item just deleted.

Test Results: The line item was successfully deleted from the database, however was not deleted from existing purchase orders.

Pass/Fail: Pass

Line Item Designation

SRS Requirement Being Tested: 2.2.3.5

Description: This feature must be implemented if the inventory feature area is functional. This feature allows the user to select the designation for each line item (e.g. Fire Department, Relief).

Input: The input for this test will be the user designating whether the line item is for training, operations, or administration.

Expected Output: The output for this test will be the database recognizing the designation and printing it out on the hard copy.

Test Results: Each line item needed to have a designation or the purchase order could not be completed.

Pass/Fail: Pass

2.2.4 Functions Not Inherent in a Feature Area

Logon/Logoff

SRS Requirement Being Tested: 2.2.4.1

Description: If the system allows multiple users to access the system with differing rights and privileges, there must be a logon/logoff procedure in place. This function will be used by the system to give access to various users to various parts of the system based on given permissions by the manager. Initially there will be no remote network access so external security is not a serious threat, although we will plan to make recommendations should Upper Allen decide to scale the system to a multi-user environment.

Input: The input to the logon test will be username and password. The input to the logoff test is to select “logoff” from the “user” menu and enter a password and id number for the next user to use the system.

Expected Output: The output will be a change of user or a user being initialized to use the system.

Test Results: Users were able to be successfully logged in and switched.

Pass/Fail: Pass

Usability

SRS Requirement Being Tested: 2.2.4.2

Description: Currently Upper Allen has no computerized purchase order set up within their office. Because of this, many of the users are not going to want to bother using a system that is hard to use. One of our priorities is to not only to create a system that will perform the desired functions but also will be user friendly and easy to learn.

Input: Dates have been set to review the database with Don Roseth to determine whether the usability of the system is up to his standards.

Expected Output: The expected output of this test is Don being completely satisfied with the usability of the completed database system.

Test Results: The UAFD was very pleased with the usability of the product.

Pass/Fail: Pass

User Friendly Interfaces

SRS Requirement Being Tested: 2.2.4.3

Description: The interface of the system needs to be user-friendly. This is important because the system will be totally new to the users. The users will need to be trained and if the interface is friendly then the user will not be intimidated. The simpler the interface the amount of error will be less.

Input: Dates have been set to review the database with Don Roseth to determine whether the interfaces of the system are up to his standards.

Expected Output: The expected output of this test is Don being completely satisfied with the user interfaces of the completed database system.

Test Results: The UAFD was very pleased with the user friendliness of the completed system.

Pass/Fail: Pass

Report - PO's Waiting For Invoice

SRS Requirement Being Tested: 2.2.4.4

Description: This report will query the status of each purchase order and print a list of those purchase orders for which an invoice had NOT been received.

Input: The input of this test is just the user selecting to print the all of the PO's waiting for invoice.

Expected Output: The expected output of this test will be the printing of all of the PO's that are waiting for invoice.

Test Results: All of the Purchase orders waiting for invoice were printed out successfully.

Pass/Fail: Pass

Report – PO's Not Yet Complete

SRS Requirement Being Tested: 2.2.4.5

Description: This report will query the status of each purchase order and print a list of those purchase orders for which an invoice HAS been received but the PO is still not complete.

Input: The input of this test is just the user selecting to print the all of the PO's not yet complete.

Expected Output: The expected output of this test will be the printing of all of the PO's that are not yet complete.

Test Results: All of the Purchase orders not yet completed were printed out successfully.

Pass/Fail: Pass

Report – PO's Complete

SRS Requirement Being Tested: 2.2.4.6

Description: This report will query the status of each purchase order and print a list of those purchase order that have been marked complete.

Input: The input of this test is just the user selecting to print the all of the completed PO's.

Expected Output: The expected output of this test will be the printing of all of the PO's that are completed.

Test Results: All of the Purchase orders that had been completed were printed out successfully.

Pass/Fail: Pass

Report - PO's Void

SRS Requirement Being Tested: 2.2.4.7

Description: This report will print a list of purchase orders that have been permanently marked VOID.

Input: The input of this test is just the user selecting to print the all of the PO's marked void.

Expected Output: The expected output of this test will be the printing of all of the PO's that have been marked void.

Test Results: All of the Purchase orders that had been voided were printed out successfully.

Pass/Fail: Pass