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Veterinary program testing

Testing plan:

Disclaimer: At various stages in this testing process I have referred to the use of an SMTP and the lack thereof. I have multiple features in my program that rely on the use of a paid SMTP, these features, whilst coded to a standard that would work, of course don't work. Some I have left with the error message and some I have commented out and replaced with a message box containing a mock email. This is to display that, if given the resources, I would be capable of implementing these features into my program

Throughout this document I will be testing my project. These tests cover the subroutines and functions on all forms included on my project. The aim of this is to ensure that I have met the success criteria I previously laid out for myself during the investigation section of this process. I will create a test plan preliminarily to carrying out the actual testing to ensure I have a clear view of the tests that will proceed. This test plan will include the following; the test itself along with an identifying number, what I wish for the outcome of the test to be, the actual outcome, if applicable the data I used in the test, the actual outcome, either a pass or fail mark and finally if necessary, any comments on the test itself such as the validity or possibly a way to fix it if it is to fail. A plethora of testing methods will be used throughout the testing stage to ensure the most appropriate method of testing is used, these testing methods include functional testing which tests the system as a whole to ensure it runs as I have aimed, procedural testing to test processes or routines within the system, dry runs to ensure calculations, in my programs case an example would be the estimated price for a procedure, work as intended and finally sanity testing to ensure that the code changes introduced after I presented my code to the customer are working as expected. Furthermore, to ensure that a thorough test is carried out I will use varying test data types such as normal, invalid and extreme. These test data types will be carefully selected and used where most applicable for each test, this information will also be included within my test plan. Normal data is valid data that should be accepted by the system, for example entering 'Andrew Greenow' in a text box dedicated for entering a name. Invalid data is data that should not be accepted by the system, for example entering '4ndr3w Gr33n0w' in a text box dedicated to entering a name. Extreme data is data that is an extreme case of data entered that could be accepted or invalidated by the system. Below is the test plan along with its results, screenshots and other evidence for these tests along with additional information on each will be provided further down this document. Each bit of evidence will be clearly labelled with the corresponding test group and test number to ensure it is easy to find and effectively lain out, the goal being to reduce time to search for tests and avoid confusion.

Key: Group.TestNumber

E.g. Group1.Test1

=1.1

Group7.Test15

=7.15

Test data plan

Test group	Form	Data to be used
1	Login	**Correct username: 473** **Correct password: Sheils (valid)** **Incorrect password: 472** **Correct password: Sheils (invalid)** **Correct username: 473** **Incorrect password: sh3ils (invalid)**

2	Main menu	**Not applicable** **Functional tests e.g., button presses.**
3	Stock selection	**Not applicable** **Functional tests e.g., button presses.**
4	Existing customers	**Valid name: Curtis Cox** **Valid name: Dylan cox** **Invalid name: Curt1s c0x** **Extreme test: void of data**
5	Lavister stock	**Functional tests e.g., button presses, DGV edits.** **Invalid: -4** **Invalid :0.4** **Extreme: 1000**
6	Borras stock	**Functional tests e.g., button presses, DGV edits.** **Invalid: -4** **Invalid :0.4** **Extreme: 1000**
7	Bookings calendar	**Functional tests e.g., date selection, button presses.** **Invalid, date with no bookings: 03/03/2025** **Valid, date with booking: 01/01/2024** **Valid, date with booking: 03/03/2024**
8	Make a booking	**Functional tests e.g., form load, button presses.** **Extreme: void of data** **Invalid: 2003-2001;09** **Invalid: 900-00** **Valid: all data passed validation checks** • **03/03/2005**

		• **12:00**
9	History	**Valid: Curtis Cox** **Invalid: Curtis c0x** **Extreme: void of data**
10	Add customer	**Invalid pre-existing: 123** **Invalid: testATGmailDotCom** **Invalid: 999** **Valid: date passed all validation checks**
11	Holiday request	**Valid: test** **Extreme: void of data**
12	Staff opt	**Not applicable Functional tests e.g., button presses.**
13	Add staff	**Functional tests e.g., form load, button pressed** **Invalid:999** **Valid: all validation checks passed** **Extreme: void of data**
14	View staff	**Valid: Sandra Sheils** **Invalid: s4andra SHEILS** **Extreme: void of data**
15	Forgot password	**Invalid: gmail@felix@.com** **Valid: 123** **Valid felixvandijkk@gmail.com** **Extreme: void of data**

Test Plan commences:

Group 1- Login page:

Test Number	Test Description	Aim	Expected Outcome
1	Login function	When 'BtnLogin' is pressed the program will check data in text boxes against that stored in access form and recognise it is the same	Login form closes and program proceeds to open main menu form
2	Login error message	When incorrect username and password data in entered into their respective text boxes the program recognises this data does not match that in the access table	A message box is displayed stating the user has entered the incorrect username and/or password along with the number of attempts the user has remaining
3	Login attempts countdown	The program declares 'remaining attempts' as 5 and removes one attempt after each incorrect attempt	The text box shows 4 attempts remaining after the first attempt and 3 attempts remaining after the second attempt and so on
4	Login error message	When the username and password text boxes are left blank main menu page does not show	Identical error message as were to pop up under the circumstances of an incorrect username and/or password entered
5	Read only text boxes safety feature	When the username and password data is incorrectly entered a integer value '1' in subtracted from the counts remaining declaration and stops at 0	When the remaining attempts counter reaches null the program display a new message asking the user to contact the administrated and makes the text boxes read only so no further attempts can be made
6	Password view alteration	The program recognises data being inputted into the text box and alters it to data type char	The string data inputted in changed to the dot symbol
7	Clear button	The program changes the data inside the username and password text boxes to ""	The text boxes become void of data
8	Forgotten password	When pressed the login form closes and the forgotten password form opens	""
9	Form exit/close	When picture box in top right pressed the program stops running	Login pages closes as does the entire program

Group 2 - Main Menu Page:

Disclaimer- this form is a 'hub' of sorts allowing users to access the other features within the program and for this reason code is very often tediously reiterated with the only

variation being the button pressed and the form it leads to. For this reason I will only test the functionality of 4 of these buttons to ensure the majority are tested.

Test number	Test description	Aim	Expected outcome
1	Login as new user button	When button pressed main menu form hides and login page is shown again.	<-“” + the user should have to input their username and password again as they would when first loading the program
2	Holiday request button	When button pressed main menu form hides and the holiday request form is shown	<-“”
3	Existing staff button	When button pressed main menu form hides and the existing staff form is shown	<-“”
4	Stock button	When button pressed main menu form hides and stock selection form shown	<-“”

Group 3- Stock Selection Page:

Disclaimer- in similar fashion to the last form, this form consists of only buttons that lead to new forms. For this reason I will be testing only 2 out of a possible 4 buttons

Test number	Test description	Aim	Expected outcome
1	Back to main menu picture box	Close current form and open main menu form	current form closes and main menu form opens
2	Lavister navigation button	Close current form and open lavister stock form	Current form closes and lavister stock form opens

Group 4- Existing Customers:

Test number	Test description	Aim	Expected outcome
1	Search button	When BtnSearch is pressed the Program, using the connection string, checks if the data in the Text box appears in the Access database and if so shows the correlating info in the below text boxes	The program find the searched name in the database and fills the below text boxes with the appropriate, correlating information.
2	Next Button	When clients with the same last name exist, the next button should be able to	When pressed the data in the text boxes changes to ‘next’ data that fits the search criteria

		cycle through the access form showing other clients with the same last name. this cycles forwards through the database	
3	**Previous button**	**When clients with the same last name exist, the next button should be able to cycle through the access form showing other clients with the same last name. this cycles backwards through the database**	**When pressed the data in the text boxes changes to 'previous' data that fits the search criteria**
4	**Search button Validation**	**When the Text box that is used for entering a search result is filled in with data that does not exist a message box should appear saying user not found**	**No user found message box**
5	**Delete button**	**When there is data in the text boxes and the button is pressed the program should use the connection string to access the database and remove the data**	**"Are you sure you want to delete" message box followed by removal of data**
6	**Delete button**	**When there is no data in the text boxes the program should recognise this and not removes anything**	**"no data selected to remove" message box**
7	**Clear button**	**When button is pressed all data in all text boxes should become "" regardless of contents**	**Text boxes become void of any data**
8	**Back button**	**When pressed should close current form and open the**	**Main Menu page opens proceeding closure of existing customers form**

		FrmMainMenu page	
9	**Search Validation empty**	**When the search text box is left empty and the user attempts to search for data the program should recognise this**	**“No name entered, try searching a name” message box appears.**

Group 5- Lavister Stock editor form:

Disclaimer- In my program there are three forms for stock edit for three different branches. All of these forms, frmlavisterstock, frmborrasstock and frmGHstock are essentially identical and for this reason I will only be testing the lavister and borras forms.

Test number	Test description	Aim	Expected outcome
1	**Data Grid View access data load**	**Within the private sub from load the code for reading data from the access form and inputting that correct information into an DataGrid view is present.**	**As soon as the form loads the information from the table ‘tblLavisterstock’ should be written into the data grid view**
2	**Data grid stock level edit**	**The DataGrid view should allow for the user to select the stock level column and edit the data within**	**When a stock level cell is selected the user can change it**
3	**Data Grid view stock level save button**	**The program should overwrite the old data in the stock level column in the access table with the new inputted data**	**Values in Access database are updated to new desired values**
4	**Updated values remain**	**When the form is closed and reloaded the program should now display the changes values**	**New values present when form is reloaded**
5	**Back button**	**Current form should be hidden and stock selector form should be shown**	**Stock selector form shown**
6	**DGV validation check, negative integer**	**When a negative number in entered the program should notice this as a mistake and output a message box stating the user should enter an**	**Message box shown**

		acceptable positive integer or 0	
7	**DGV validation check, non-integer value**	**When a non-integer value number in entered the program should notice this as a mistake and output a message box stating the user should enter an acceptable positive integer or 0**	**Message box shown**
8	**DGV validation check, unrealistic integer**	**When a unrealistic number in entered the program should notice this as a mistake and output a message box stating the user should enter an acceptable positive integer or 0**	**Message box shown**

Group 6- Borras stock editor page:

Test number	Test description	Aim	Expected outcome
1	**Data Grid View access data load**	**Within the private sub from load the code for reading data from the access form and inputting that correct information into an DataGrid view is present.**	**As soon as the form loads the information from the table 'tblBorrasstock' should be written into the data grid view**
2	**Data grid stock level edit**	**The DataGrid view should allow for the user to select the stock level column and edit the data within**	**When a stock level cell is selected the user can change it**
3	**Data Grid view stock level save button**	**The program should overwrite the old data in the stock level column in the access table with the new inputted data**	**Values in Access database are updated to new desired values**
4	**Updated values remain**	**When the form is closed and reloaded the program should now display the changes values**	**New values present when form is reloaded**
5	**Back button**	**Current form should be hidden and stock selector form should be shown**	**Stock selector form shown**

6	**DGV validation check, negative integer**	**When a negative number in entered the program should notice this as a mistake and output a message box stating the user should enter an acceptable positive integer or 0**	**Message box shown**
7	**DGV validation check, non-integer value**	**When a non-integer value number in entered the program should notice this as a mistake and output a message box stating the user should enter an acceptable positive integer or 0**	**Message box shown**
8	**DGV validation check, unrealistic integer**	**When a unrealistic number in entered the program should notice this as a mistake and output a message box stating the user should enter an acceptable positive integer or 0**	**Message box shown**

Group 7- Bookings calendar form:

Test Number	Test description	Aim	Expected outcome
1	**Date selection**	**The DateTimePicker should appear when the form is loaded and allow the user to select a date month and year**	**Works as aim suggests**
2	**Date with bookings**	**When a date is selected the program should check this against the column BookingDate in tblBooking in the access database and if the date appears in the column then programmatically generate button for each time associated with that day.**	**Buttons appear for each time there is a booking on that day with the boking time as the text inside the button so its easily identifiable.**

3	**Date without bookings**	**When a date is selected the program should check this against the column BookingDate in tblBooking in the access database and recognises there are no bookings on that day and so generates no buttons**	**The form should remain as it was before**
4	**Booking information form**	**If the program has programmatically generated buttons, the user should be able to press the buttons which should display the rest of the information to do with the booking such as price, procedure, owner name, animal name, booking ID ext.**	**A small form will appear with the header of the date and time of the booking with the additional information shown below in bold.**
5	**Booking information form back button**	**When this form appears after the user has selected one of the button a 'back' button should also generate on the form allowing the user to close the form and select a new date or time**	**Back button on lower right of new temporary form appears with form and allows user to go back to the calendar.**
6	**Form back button**	**Hides the calendar form and shows the main menu form**	**Main menu form appears.**
7	**Booking buttons size change**	**Within the code for the programmatically generated buttons is an equation that decides the size of the buttons. They should change size to be able top fit the page dependant on how many buttons have to be generated**	**Buttons become smaller and more are needed to be generated.**

Group 8- Make a booking form:

Test number	Test description	Aim	Expected outcome
1	Random ID load	When the form is loaded a random 3 digit number is programmatically generated and put into the booking id text box	Random three digits appear in text box to be used to identify the specific booking
2	New ID button	In the event an error occurs or the user wants to generate a new booking ID for a new booking this button can be pressed programmatically generating a new random booking ID	Three new random integers appear in the desired text box
3	ID read only on load	As soon as the form is loaded the booking ID text box becomes read only to ensure it cannot be tampered with. Can only be changed with 'New ID' button or by closing an reopening the form	The text box will be read only as soon as the form opens and remain as such indefinitely
4	Owner name validation	A presence check is carried out ensuring some type of information has been entered as this is an important piece of info	Message box stating the issue of lack of data
5	Animal name validation	A presence check is carried out ensuring some type of information has been entered as this is an important piece of info	Message box stating the issue of lack of data
6	Owner ID validation	A presence check is carried out ensuring some type of information has been entered as this is an important piece of info	Message box stating the issue of lack of data
7	Date validation	A format check is carried out ensuring that the date has been entered in the correct format, DD/MM/YYYY, to ensure the date can be read and recognised from the	Message box stating the issue of incorrect formatting

		access form and buttons can be generated on the calendar form	
8	**Time validation**	**A format check is carried out ensuring that the time has been entered in the correct format, 00:00, to ensure the date can be read and recognised from the access form and buttons can be generated on the calendar form**	**Message box stating the issue of incorrect formatting**
9	**Procedure type combo box**	**When the program is loaded a set list of procedures form the procedures table in the access form are to be loaded in to this combo box**	**List of procedures appear when combo box is used**
10	**Save button**	**When the text boxes have been filled appropriately this is to save a new record to the access file**	**The program writes the information into the correct table in the access database and displays a message stating it has done so**
11	**Print button**	**This is to allows the user to print a physical recipe of sorts. This will include the necessary information as well as header and a thank you message all predesigned in the code.**	**A small print form appears allowing selection of printer and copies ext.**
12	**Physical print format check**	**The text on the physical piece of paper is lain out appropriately and all the information is present.**	**The recipe will be displayed as such HEADER Info Info Info Info Info Info Thank you for choosing the gatehouse vets.**
13	**Email button**	**To email the user the recipe instead of or as well as a**	**A message box will appear explaining the issue as I have**

		paper recipe. Takes info in text boxes and designs an email similar to that of the recipe	**not paid for a service to actually send the emails**
14	**Clear button**	**Empties all text boxes by setting them = “”**	**All text boxes become blank**
15	**‘X’ picture box (close)**	**Closes/hides the current form and shows the main menu form**	**Main menu is shown**
16	**Procedure price textbox**	**When a procedure is selected in the combo box the price that is associated with that procedure in the access file will be read from the text file and written into the text box.**	**The price of the selected procedure appears in the text box adjacent to it**

Group 9- History form:

Test number	Test description	Aim	Expected outcome
1	**Search**	**When a valid full name is entered into the ‘txtsearch’ textbox and the search button is pressed the program uses the connection string to access the database and search the ‘tblbooking’ table for any past bookings under that name. if they have past bookings the information of those bookings is written into the text boxes beneath.**	**Information correlation with that name read from access the written ton text boxes**
2	**Search invalid**	**When a name that does not exists in the database is searched the program should attempt to read this name from the database, recognise that is does not exist and output an appropriate**	**Text box appears alerting the user of the fact the name does not exist in the database**

		message box stating such	
3	**Search extreme**	**When no data is entered into the search text box and the button is pressed the program should recognise the lack of data and output a message box stating such**	**Text box appears alerting the user of the lack of data in the text box**
4	**Next button**	**When the next button is pressed, in the event that the searched name has multiple past procedures, the program should cycle 'forwards' through saves records changing the info in the text boxes each time**	**Records cycles through in a forward fashion displaying new info for that name in text boxes**
5	**Previous button**	**When the previous button is pressed, in the event that the searched name has multiple past procedures, the program should cycle 'backwards' through saves records changing the info in the text boxes each time**	**Records cycles through in a backward fashion displaying new info for that name in text boxes**
6	**Previous button end of information**	**When using the previous button, if the end of the saved records has been reached and the user attempts to press the button again the program should output a message box stating so to reduce chances of confusion of seeing the same records multiple times.**	**Text box saying "no more records found"**
7	**Clear button**	**Should empty all text boxes by setting them = ""**	**All info in all text boxes disappears**
8	**Back button**	**Should hide the current form and show the main menu form**	**Closes current from and opens main menu form.**

9	**Sort algorithm**	**When a value is searched for the program should sort all the names in the table alphabetically. This is in order to be able to perform a Binary search**	**Names sorted alphabetically ready for search**
10	**Binary search**	**Using the sorted list the program should perform a binary search on the list in order to find the value that has been searched for**	**Sorted list searched through via a binary search.**

Group 10- Add Customer form:

Test number	Test Description	Aim	Expected Outcome
1	**Clear Button**	**When button is pressed all text boxes are set = “”**	**All input fields cleared and ready for new customer entry**
2	**Save button**	**Valid customer data entered and save button pressed the program uses the connection string to write the new info to the database**	**Customer data saves in database and a success message appears**
3	**Back Button**	**When button pressed main menu should appear and current form should be hidden**	**Main menu shown**
4	**Input validation**	**When an attempt to save a customer with empty fields is made the program should recognise this**	**Error message displayed**
5	**Existing customer prevention**	**Attempting to save a customer with the same ID as another does not work as the program checks the database for repeat IDs**	**Error message appears and data not saved**
6	**Email validation**	**The program should recognise any attempts to save an email address of the incorrect format**	**The program displays an error message**
7	**Phone number validation**	**When attempting to save a customer with an invalid phone number the**	**Error message displayed**

		program should recognise the format is incorrect	
8	**Random ID generated**	**When the form loads a random three integer ID should be written into the ID text box**	**Three random integers appear in text box.**

Group 11- Holiday request form:

Test number	Test description	Aim	Expected outcome
1	**Send button**	**Sends information inputted into text boxes to admin to await approval**	**Admin receives and denies or accepts or amends offering an alternative option**
2	**Clear button**	**Sets all text boxes = “”**	**Text boxes become void of any data**
3	**Back button**	**Hides current form and opens main menu form**	**Main menu appears**
4	**validation**	**Carries out a presence check before sending information**	**In the event a field is left blank a message box appear stating which field has been left blank and the request is not sent**

Group 12- Staff option form:

Test number	Test description	Aim	Expected outcome
1	**Add staff button**	**Current form hidden add staff form shown**	**Shows add staff form**
2	**View staff button**	**Current form hidden view staff shown**	**Shows view staff form**
3	**Back button**	**Current form hidden main menu form shown**	**Shows main menu form**

Group 13- Add staff form:

Test number	Test description	Aim	Expected outcome
1	**Random staff ID generated**	**When the form loads a random staff ID should be generated programmatically**	**Three random integers appear in the staff ID text box**
2	**Staff ID read only**	**When the program loads the text box dedicated to staff ID should be reads only and remain as such throughout**	**Staff ID text box is read only and stays so.**

		the duration of the program running	
3	**Contacts number Validation**	**A format validation check in run on the contact number section of the forms**	**If the number is not in the correct nor desired format a message box appears stating the issue**
4	**Role combo box**	**When the program starts and the user selects the combo box all applicable staff roles are shown**	**Combo box filled with desired data**
5	**Branch ID combo box**	**When the program starts and the user selects the combo box all applicable Branches and their associated IDs are shown**	**Combo box filled with desired data**
6	**Save button**	**When the button is pressed the program, using the connection string, should read all data in all text boxes and write the to a new line in the appropriate position in the database**	**new row of staff details added to the appropriate table**
7	**Save validation**	**Program should run a presence validation on all text boxes on the form in order none are left blank**	**Message box appears stating which boxes were left blank and info not saved**
8	**Clear**	**All text boxes set = “”**	**Text boxes become void of data**
9	**Back**	**Current form hidden and staff option form opens**	**Staff option shown**

Group 14- View staff form:

Test number	Test description	Aim	Expected outcome
1	**Search**	**When a valid search result is inputted the program, via the connection string checks if this results exists in the access database and outputs the correlating results if so.**	**Text boxes get information written into them.**

2	**Invalid search**	**When a search is conducted on a name that does not exist in the database the program should recognise this.**	**Message box outputted with message**
3	**Extreme search**	**When the search text box is left empty the program should recognise this**	**Message box outputted with appropriate message**
4	**Previous**	**Before a name is searched this button should allow users to cycle 'backwards' through all records saved**	**Text boxes get the previous record saved in the table written into them**
5	**Next**	**Before a name is searched this button should allow users to cycle 'forwards' through all records saved**	**Text boxes get next record in array written into them**
6	**Clear**	**All text boxes set = ""**	**Text boxes become blank**
7	**Back**	**Current form hidden staff option form shown**	**Staff option form appears**

Group 15- Forgotten password form:

Test Number	Test description	Aim	Expected outcome
1	**Email format**	**Program checks if the email is entered In the correct format or a pre-approved format**	**If its not then a message box appears**
2	**Email presence**	**Checks if any data is in the email text box**	**Outputs message box lack of data detected**
3	**Username presence**	**Checks if any data has been entered into the username textbox**	**Outputs message box if lack of data detected**
4	**Send button**	**Designs email and send to user with a link**	**User receives an email designed by the program that contains a recovery link for the password.**
5	**Re send**	**In the event the user did not receive the email this acts as a fail safe to ensure an email is received.**	**Send user another identical email, makes both buttons read only and starts a timer for 60 seconds to prevent**

			spamming emails. Once the timer ends the user can then use the re send button
6	Countdown timer	Starts a countdown timer when the re send button is pressed	A timer form 60 downwards appears and disappears once the timer runs out.
7	Read only	Send becomes reads only when it is pressed indefinitely and re send becomes read only for 60 seconds until the timer has counted down.	Send becomes read only and re send becomes temporarily read only but becomes useable again once the timer finishes.
8	Back	Hides current form and shows the login page	Login page shown.

Testing Begins:

In this section I will be displaying the outcomes of the tests and the data used. This will be displayed in the form of a table and screenshots with comments for proof of tests.

Test Group 1: Login Page:

Test Number	Test Data Used	Actual Outcome	Verdict	Comment
1	Correct username (473) correct Password(Sheils) Normal test data type	Data accepted and main menu form opens	Pass	N/A
2	Incorrect username(472P) correct password (Sheils) Correct username(473)incorrect password (sh3ils) Incorrect username and incorrect password Invalid test data type	Data invalid and text box shown, main menu form NOT shown.	Pass	N/A
3	Run 1: Incorrect username Incorrect password Run 2: Incorrect username	Run 1: 4 attempts remaining displayed Run 2: 3 attempts remaining displayed	Pass	N/A

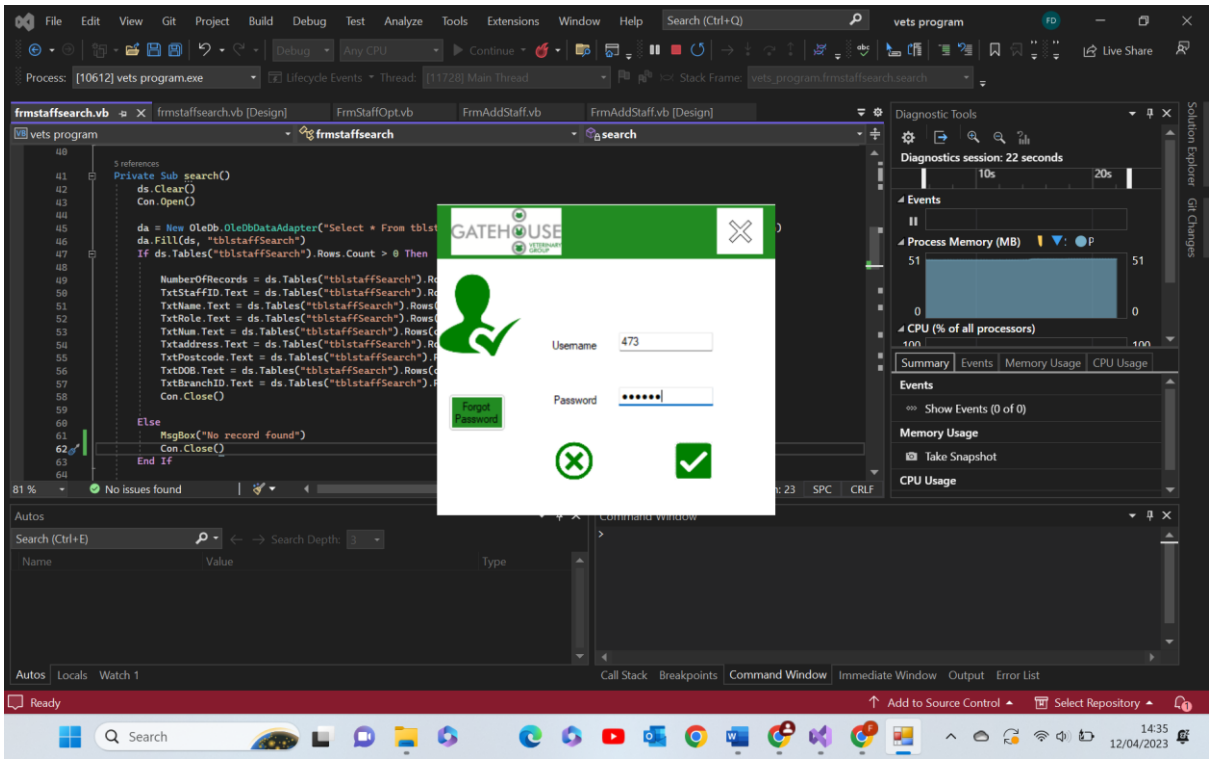
	Incorrect username **Invalid test data type**			
4	**None** **Extreme test data type**	**Error message displayed**	**Pass**	**Could possibly implement a feature in future that displays a separate error message under these circumstances as this lack of data would likely be a miss click or just carelessness**
5	**Incorrect username and incorrect password entered 5 times respectively** **Invalid test data type**	**New error message displayed and text boxes access level altered to read only**	**Pass**	**Important safety feature to reduce risk of certain hacking processes such as brute force. One issue however is that the only requirement to bypass this safety check is to restart the program, in future versions I could make it so this is not the**

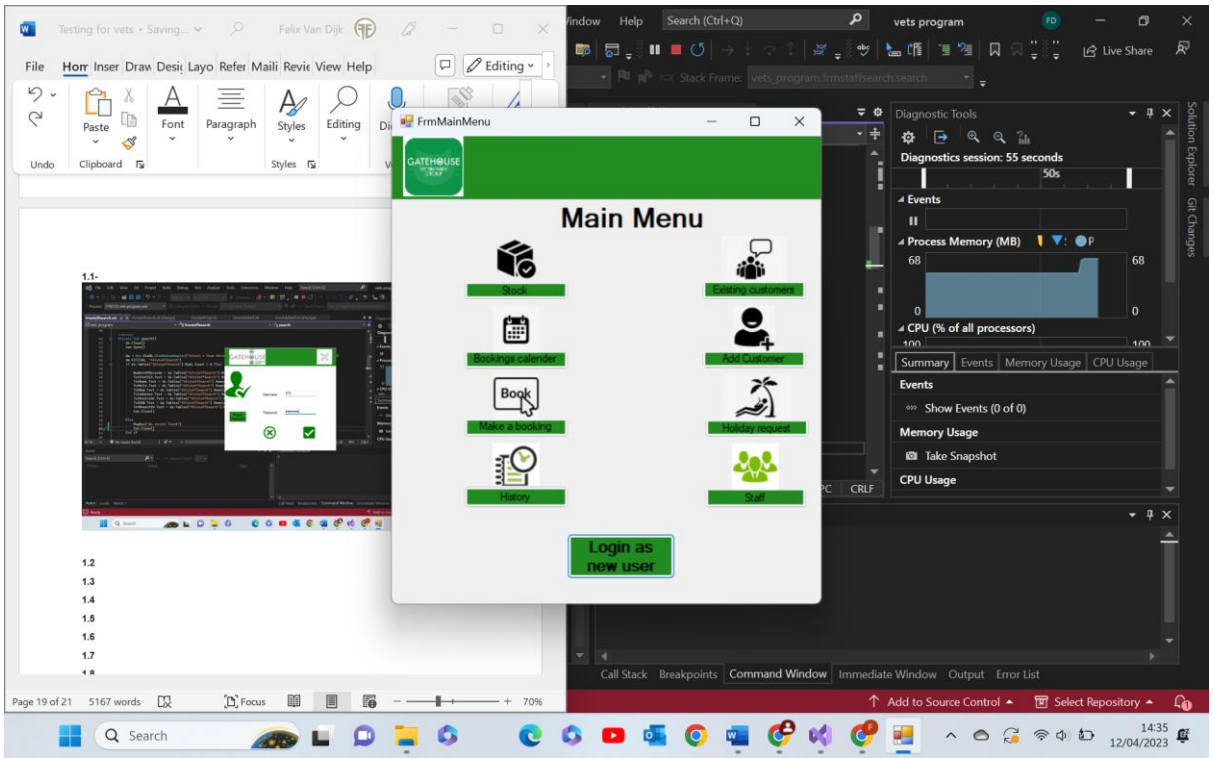
				case and only the administrator Is able to revert the access levels.
6	**Correct password** **Normal test data used**	**Password entered (sheils) was changed to •••••**	**Pass**	**Helpful to further ensure safety**
7	**Correct password** **Correct username** **Normal test data type**	**Username '473' and password 'Sheils' were each removed leaving empty text boxes**	**Pass**	**N/A**
8	**n/a** **Functional test**	**Login form closed and forgotten password form was displayed**	**Pass**	**In future could make forgotten password button only available after all attempts have been exhausted. May cause some users to have to enter details incorrectly more than necessary however**
9	**N/A** **Functional test**	**Login page closed and program stopped running**	**Pass**	**Could implement an "are you sure you wish to close" feature in future.**

Insert screenshots here later

Test group one screenshots:

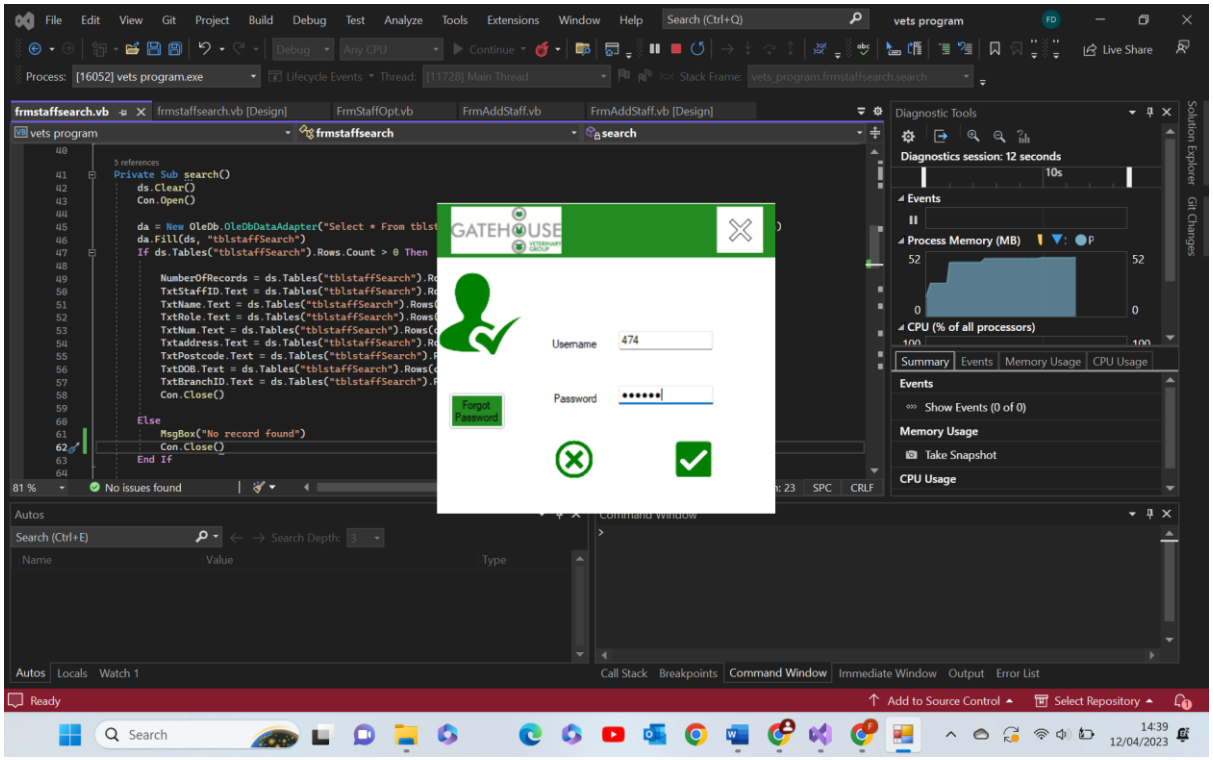
1.1-

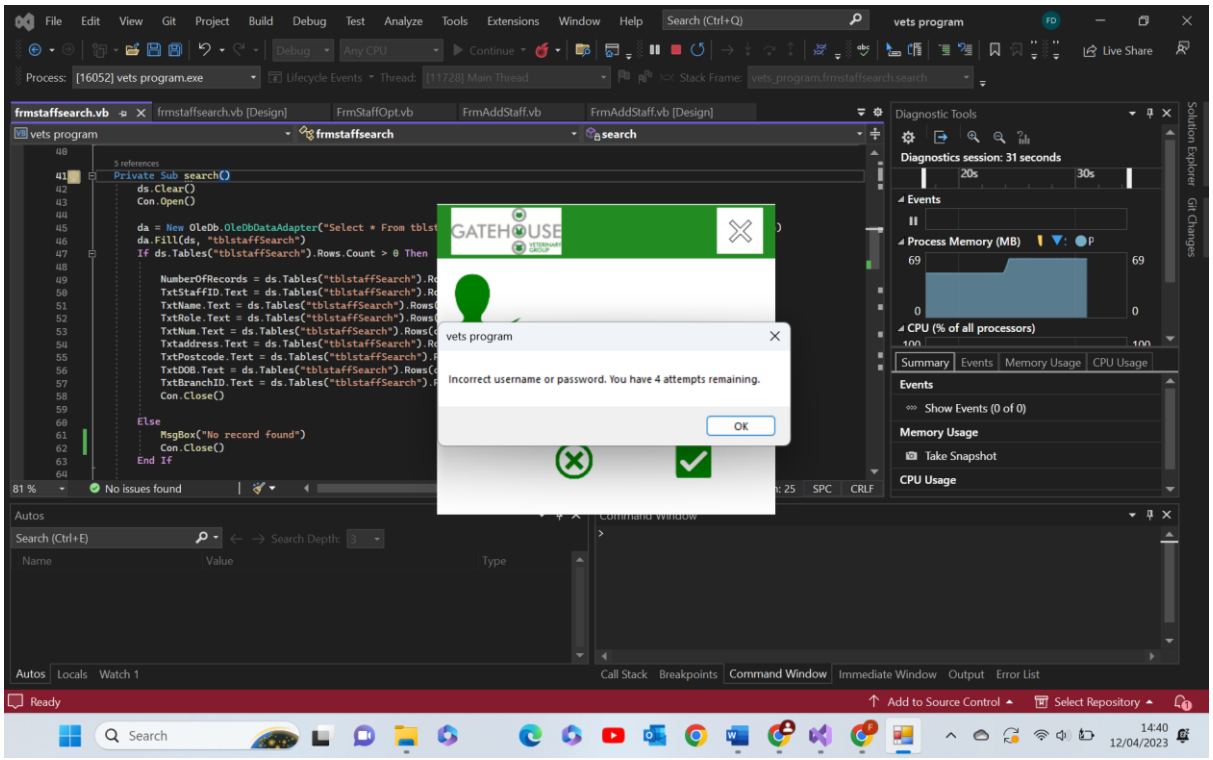




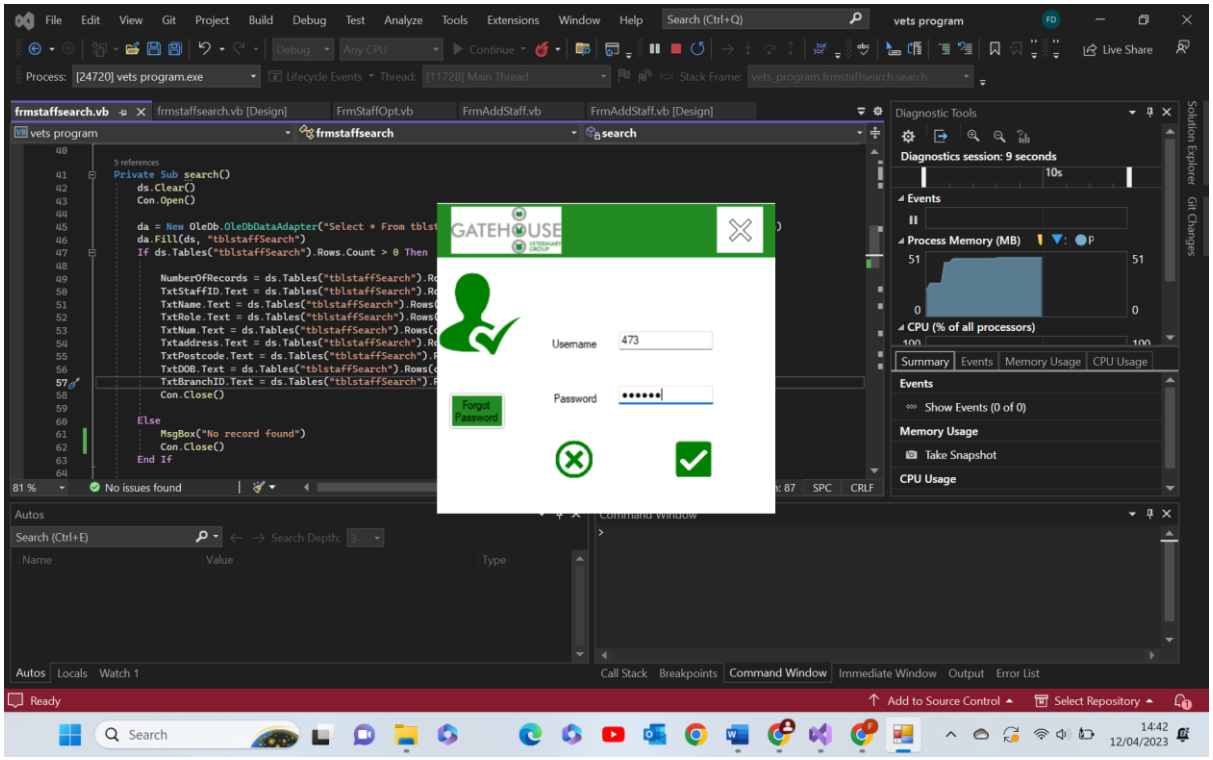
Test 1.1 comments- As is clear by the above screenshots when the correct username and password, 473 and Sheils respectively, are used the program performs as expected. Pass

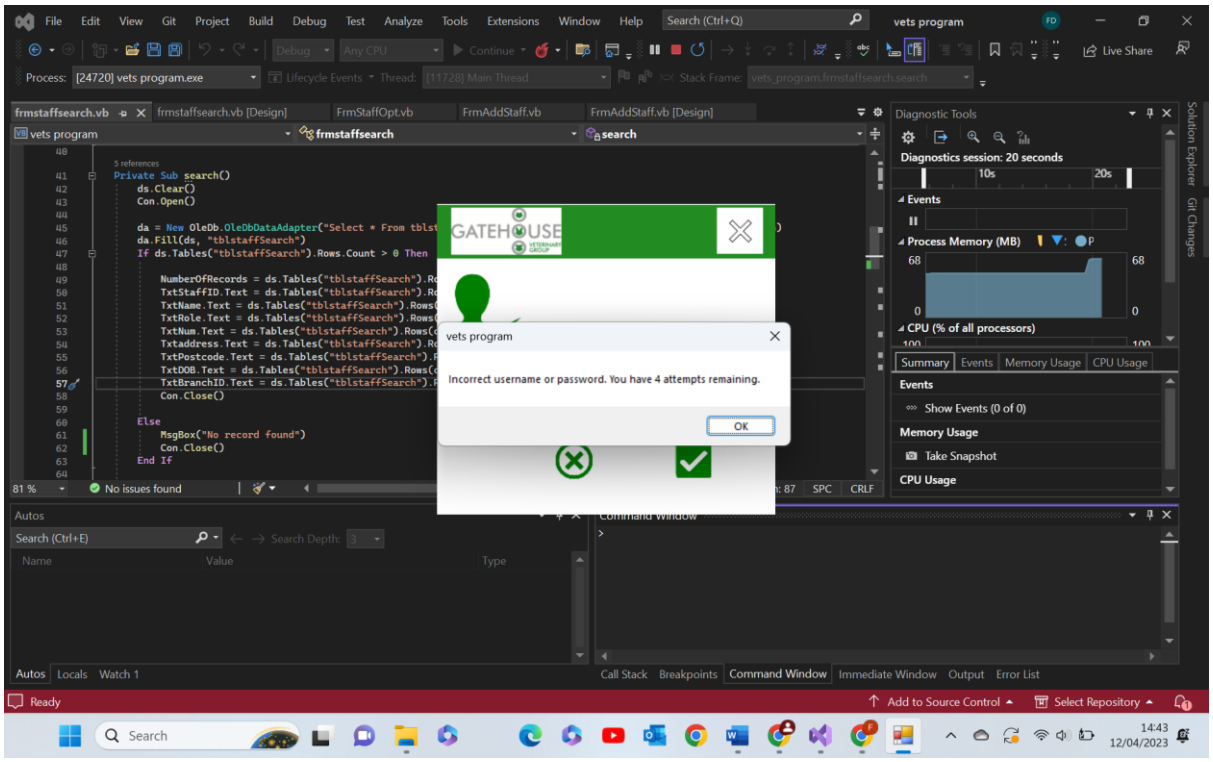
1.2-





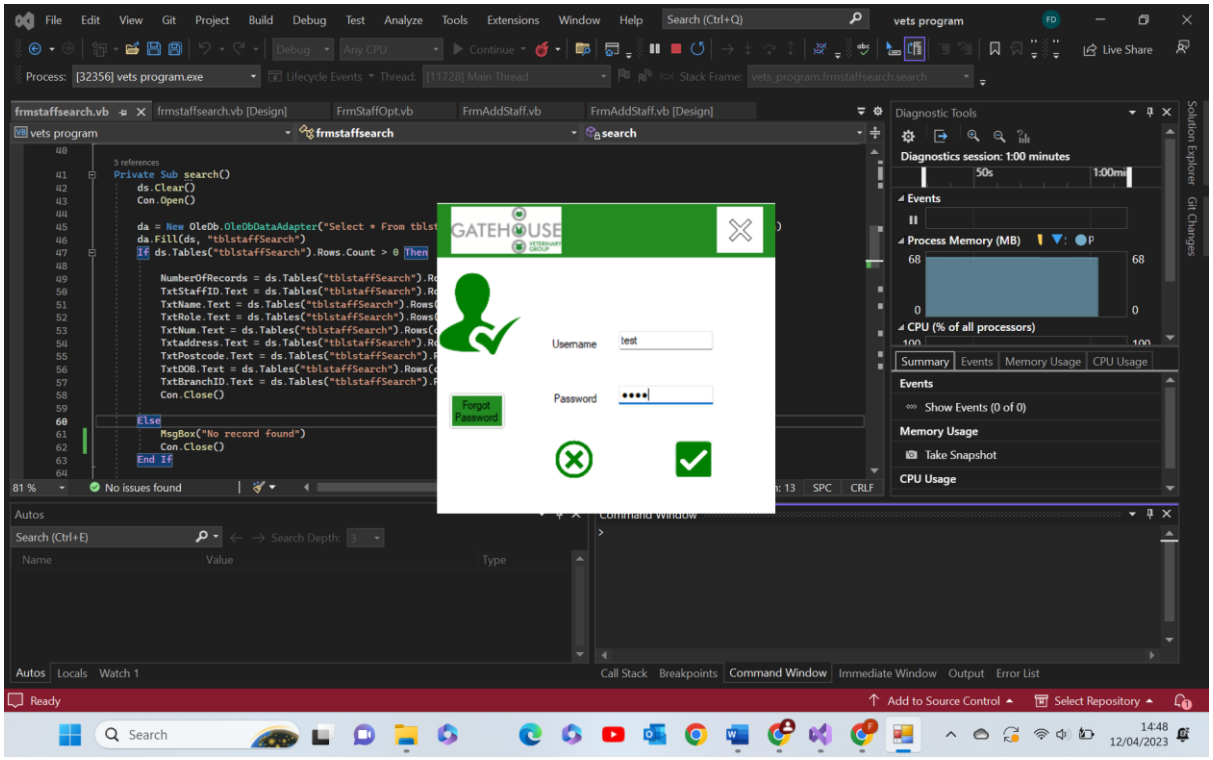
Test 1.2 part 1 comments- as you can see above the incorrect password, 474, was used and the program did not let the user progress to the main menu form but instead displayed the error message after the login function was Ran. Pass

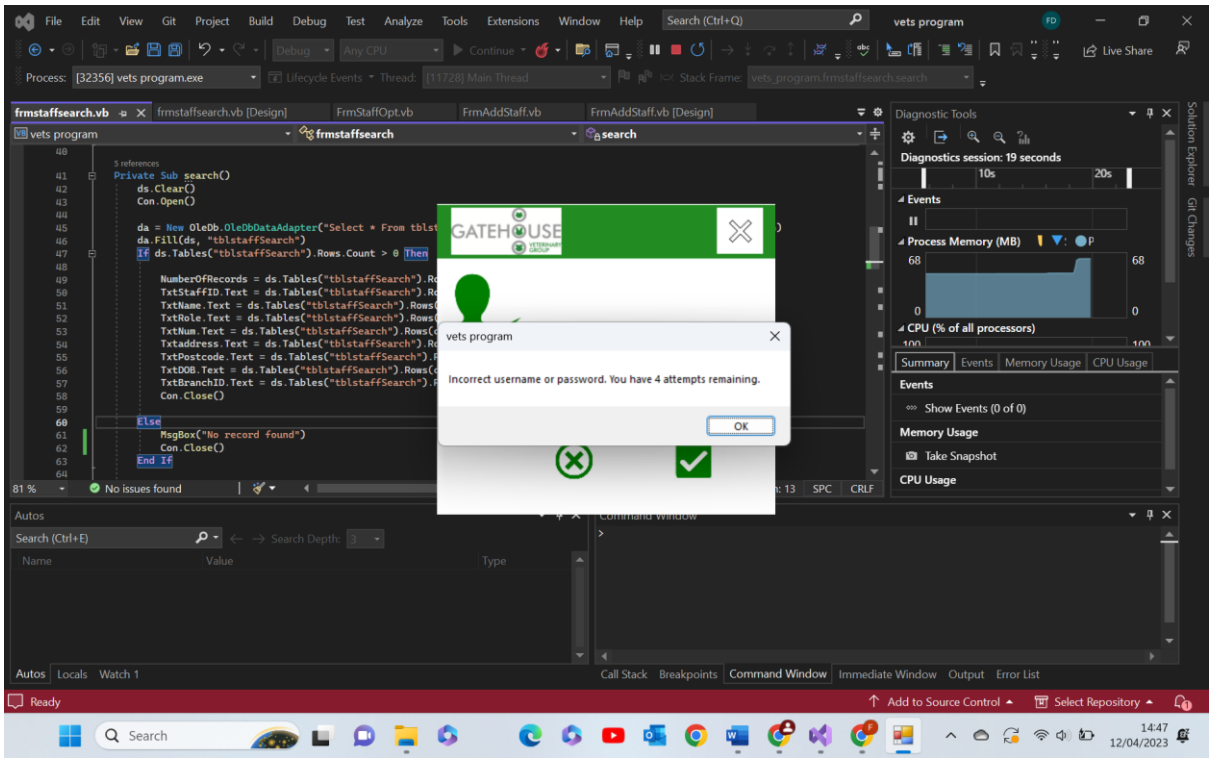


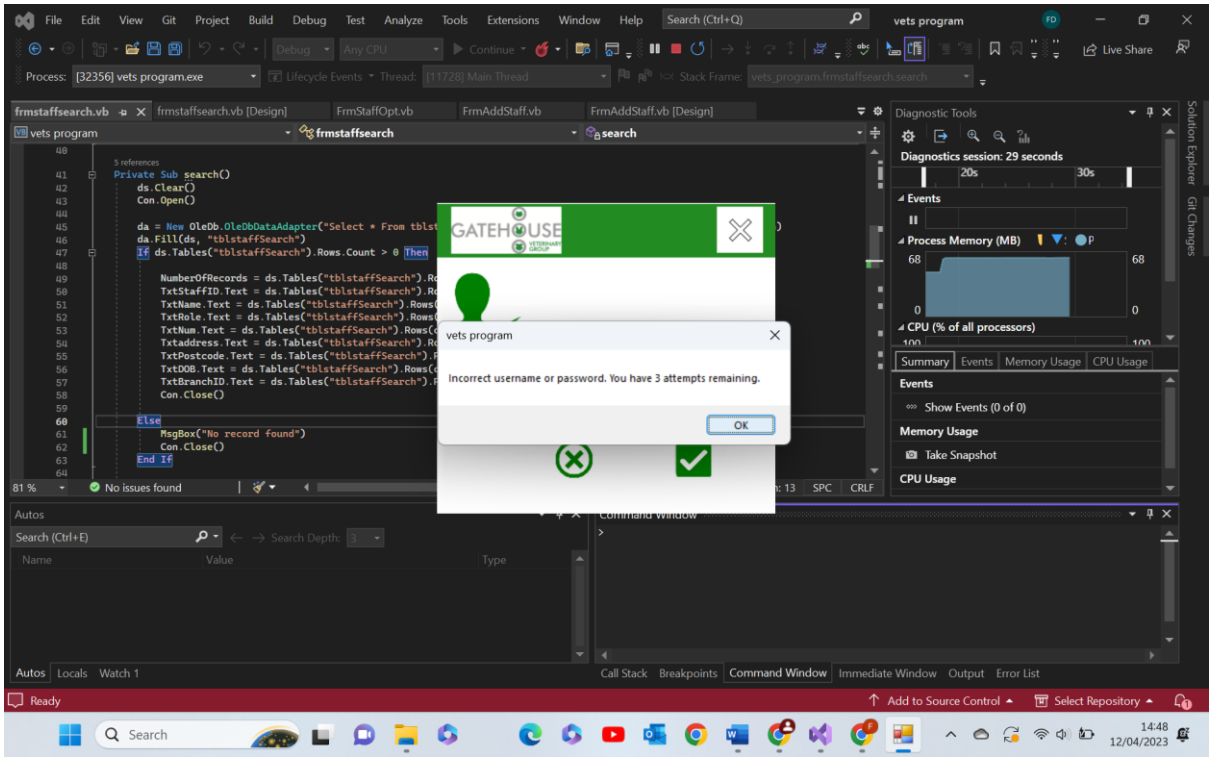


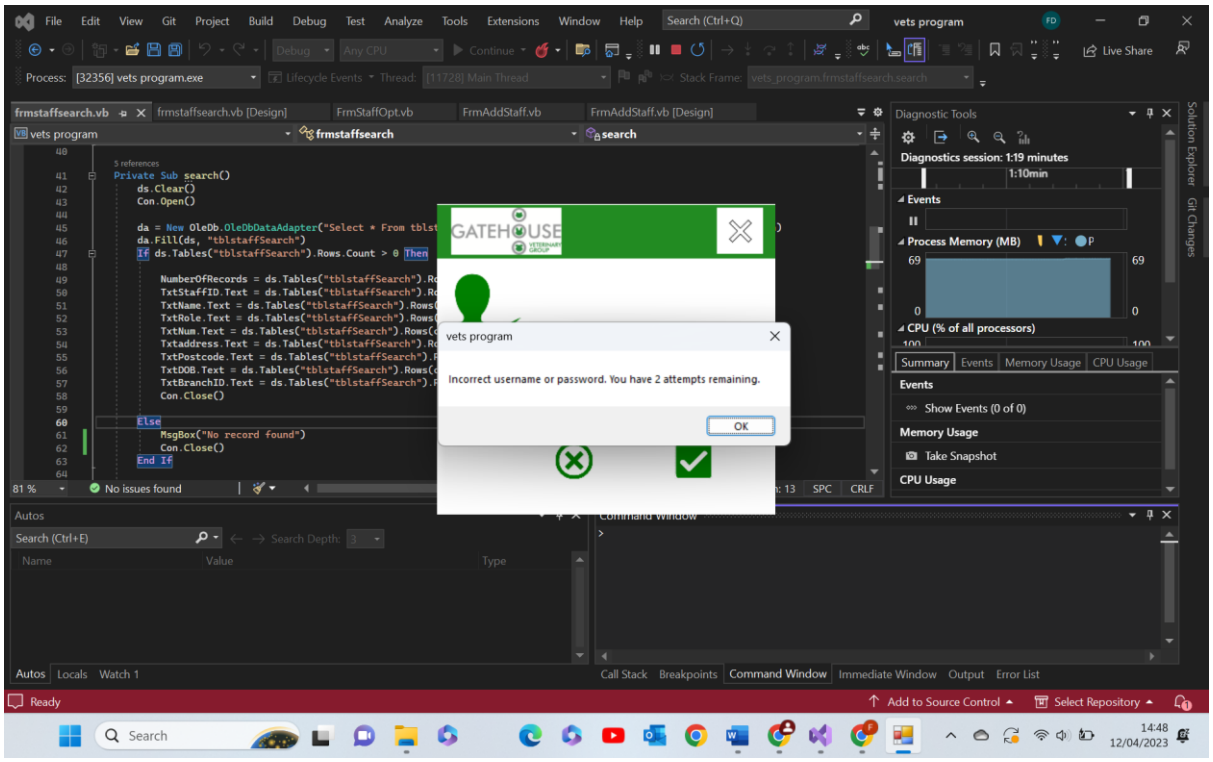
test 1.2 part 2- as you can see above when the correct password but incorrect username, sheilz, was entered the program displayed an error message and did not let the user through to the main menu. Pass

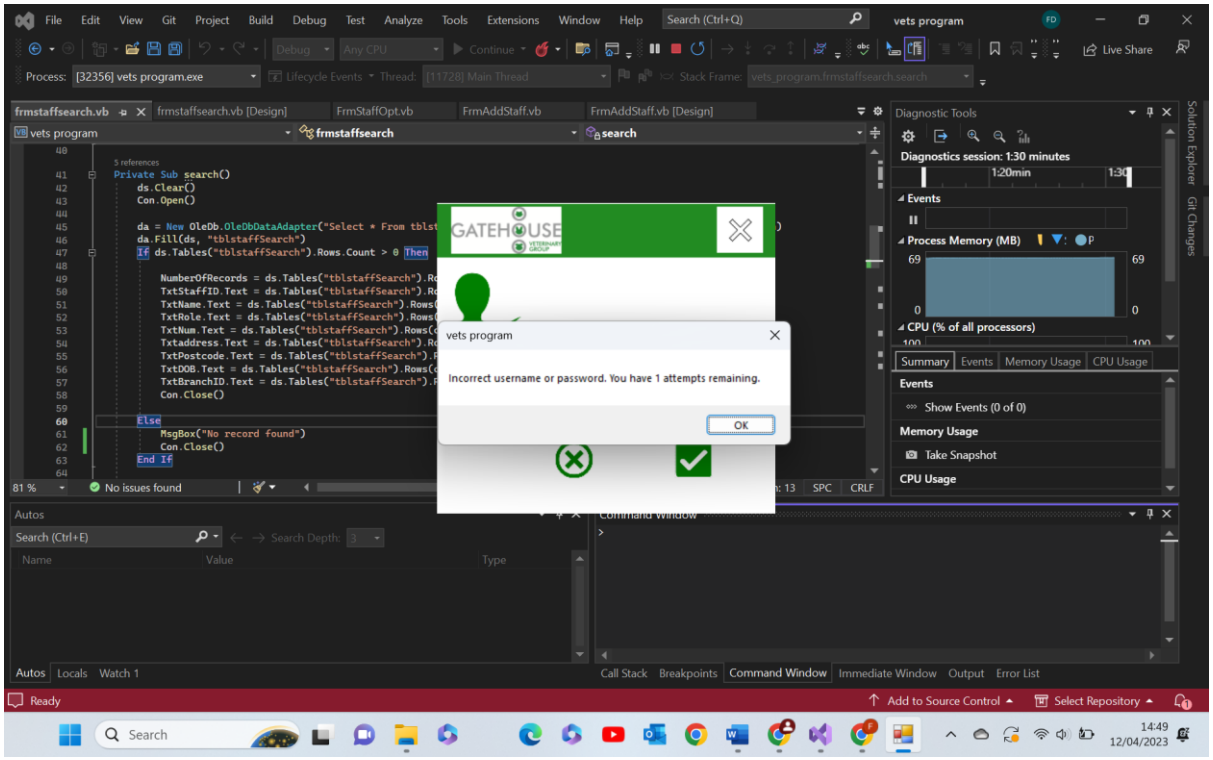
1.3-


GATEHOUSE
Username
test
Password
Forgot Password
Private Sub search()
ds.Clear()
Con.Open()
Else
MsgBox("No record found")
Con.Close()
End If
Diagnostic Tools
Diagnostics session: 1:00 minutes
Process Memory (MB)
CPU (% of all processors)
Summary
Events
Memory Usage
CPU Usage
Show Events (0 of 0)
Take Snapshot
No issues found
Ready
Add to Source Control
Select Repository


GATEHOUSE
vets program
Incorrect username or password. You have 4 attempts remaining.
OK
Private Sub search()
ds.Clear()
Con.Open()
Else
MsgBox("No record found")
Con.Close()
End If
Diagnostic Tools
Diagnostics session: 19 seconds
Process Memory (MB)
CPU (% of all processors)
Summary
Events
Memory Usage
CPU Usage
Show Events (0 of 0)
Take Snapshot
No issues found
Ready
Add to Source Control
Select Repository

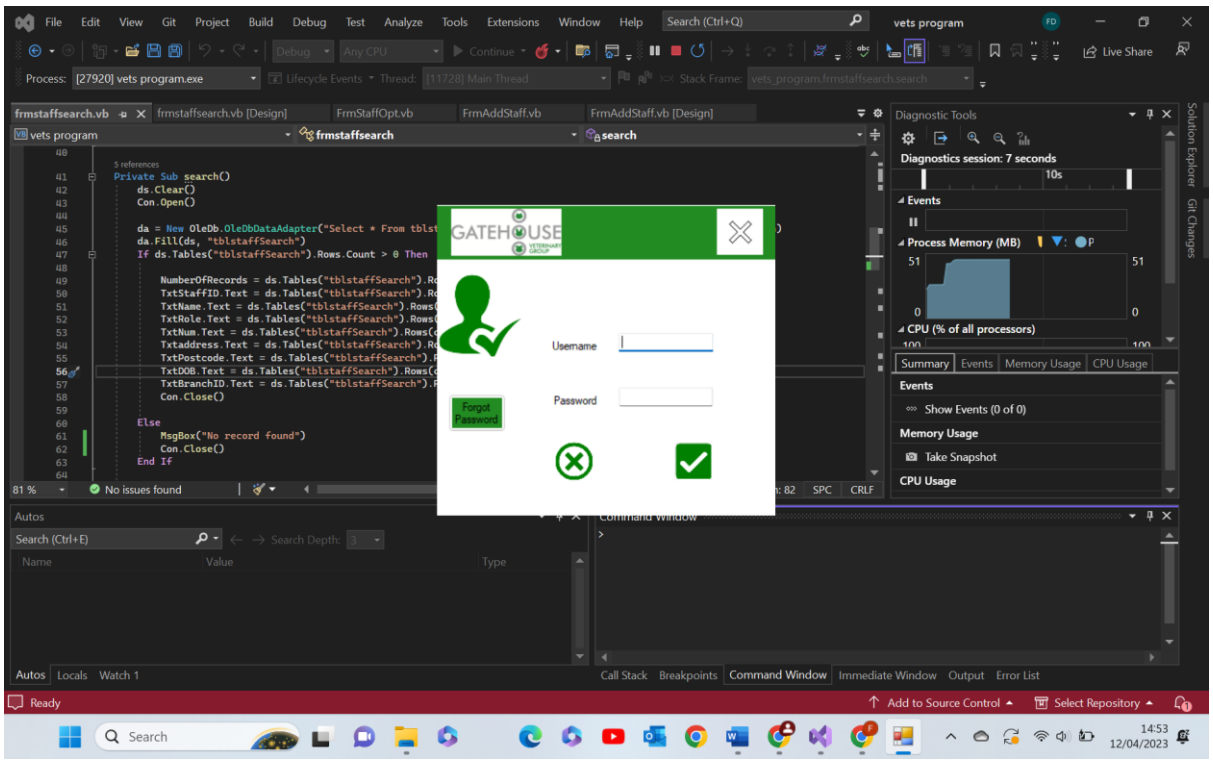

vets program
Incorrect username or password. You have 3 attempts remaining.
OK
Private Sub search()
Diagnostics session: 29 seconds

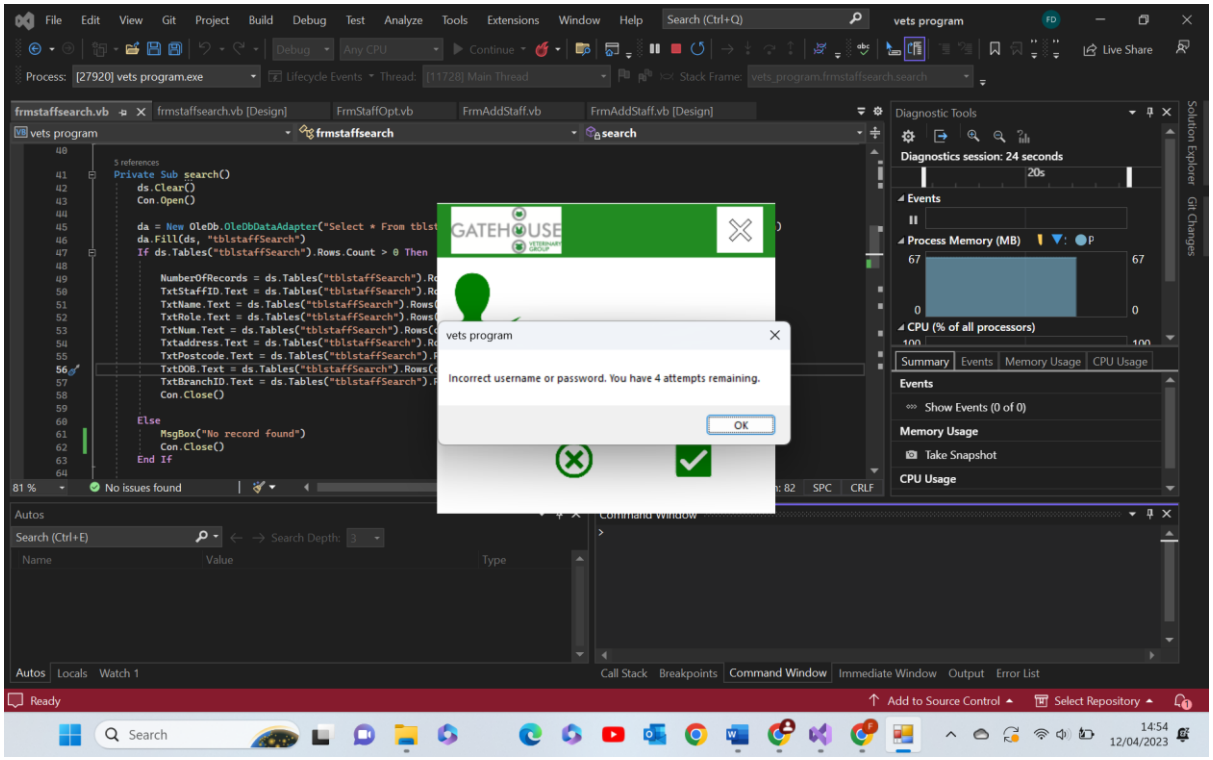

vets program
Incorrect username or password. You have 2 attempts remaining.
OK
Private Sub search()
Diagnostics session: 1:19 minutes



Test 1.3 comments- as you can see from the above screenshots the program recognises how many attempts have been made and subtracts one from the counter 5 each time an incorrect attempt is made, displaying a message warning the user of how many attempts are left. Pass

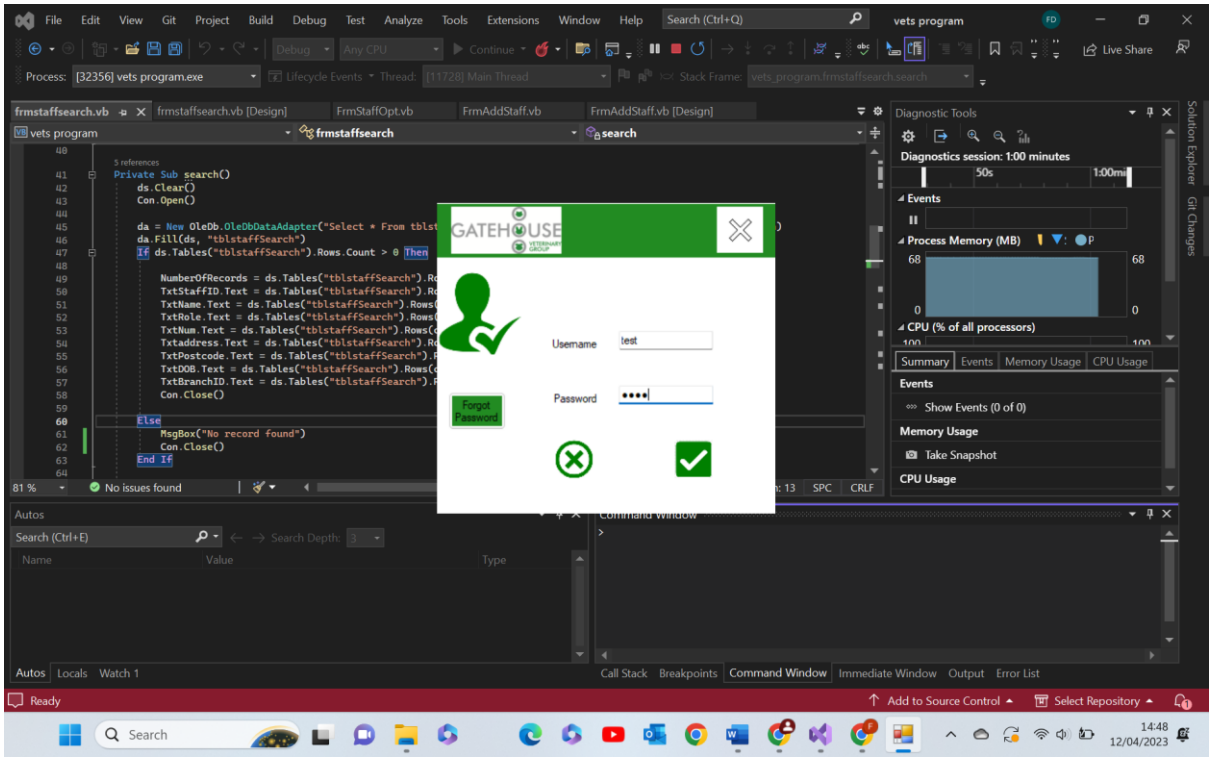
1.4-

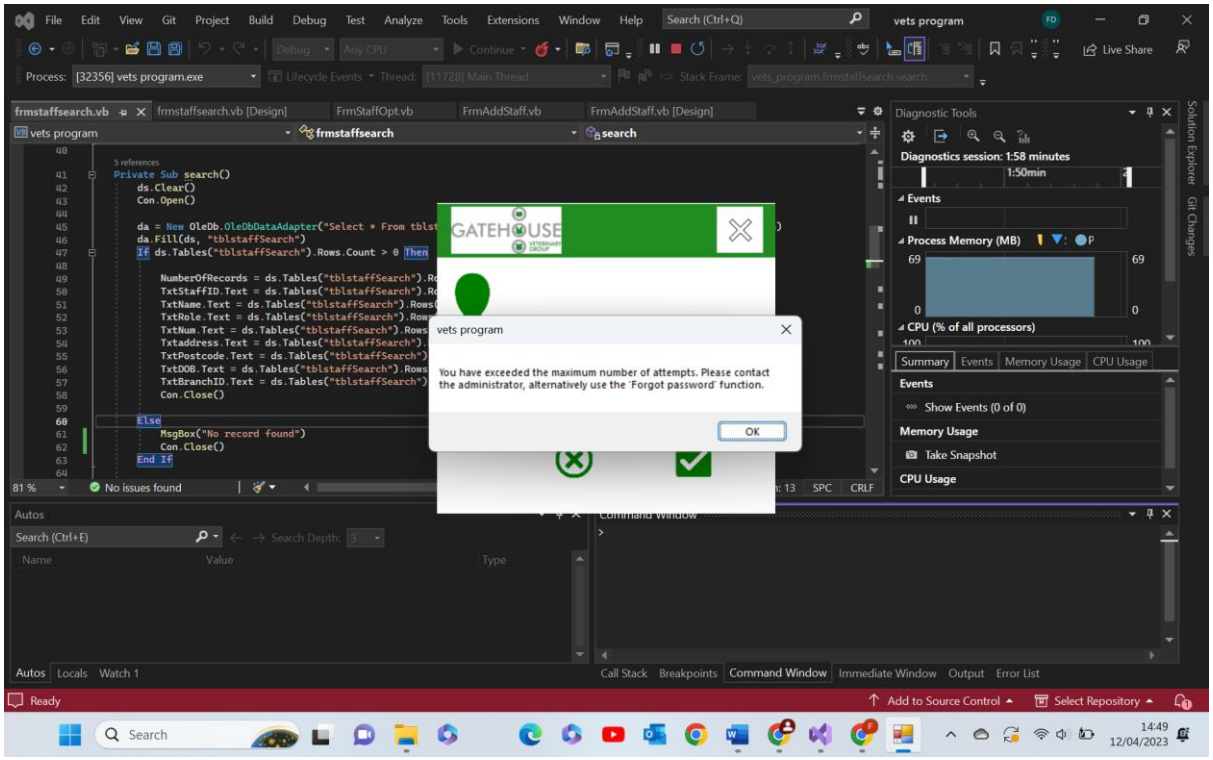


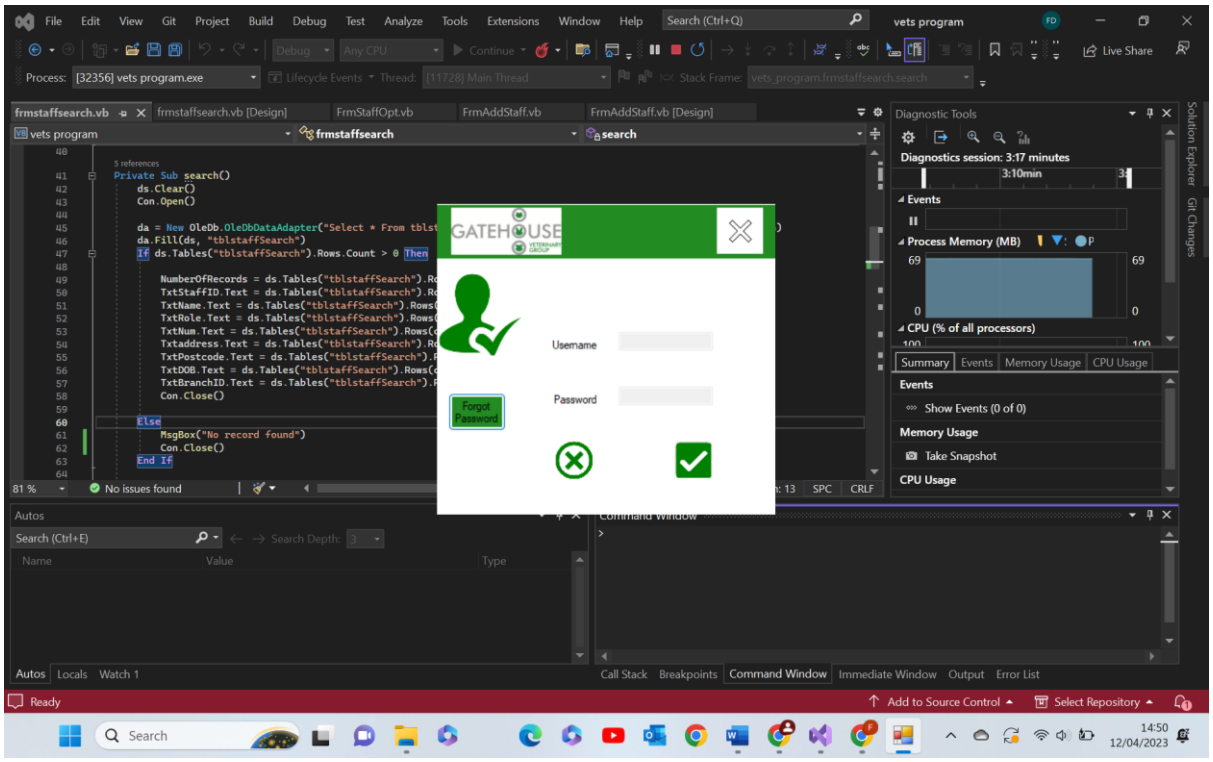


Test 1.4 comments- as you can see above, when an extreme test is ran, no data entered, the program acts as though the password or username has just been entered incorrectly which is as expected. Pass

1.5-

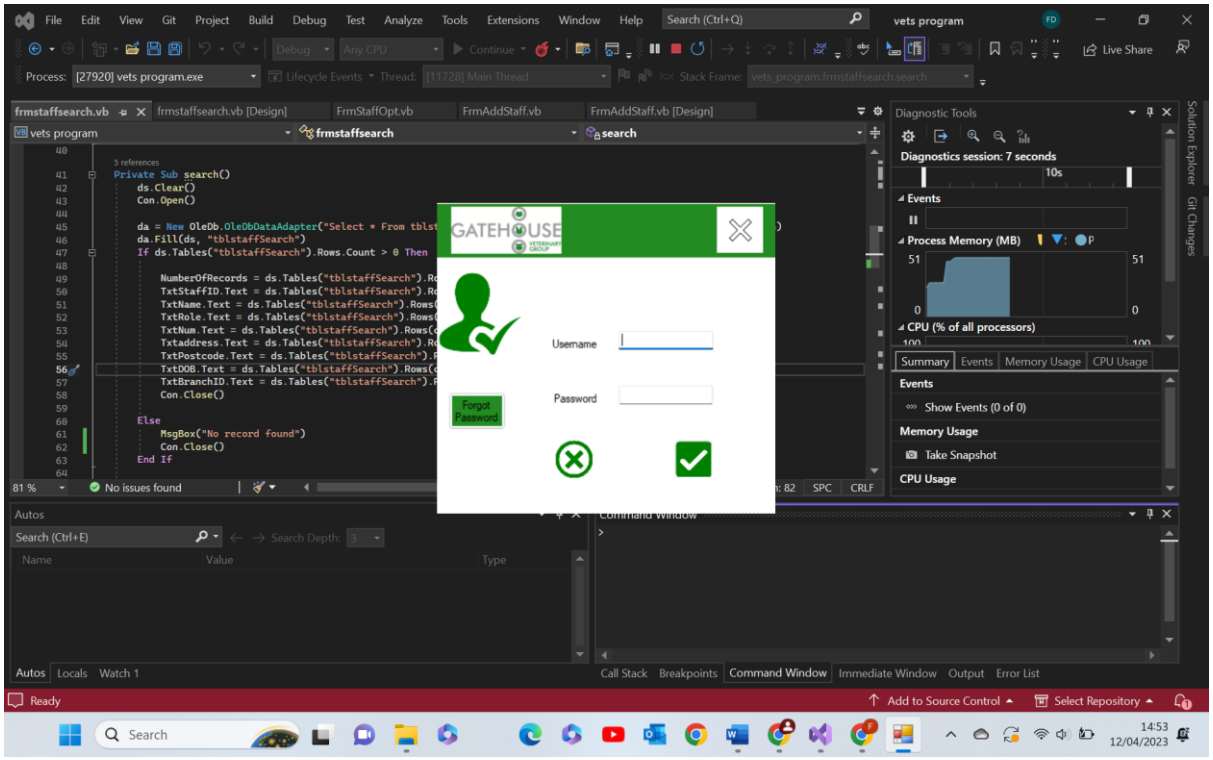


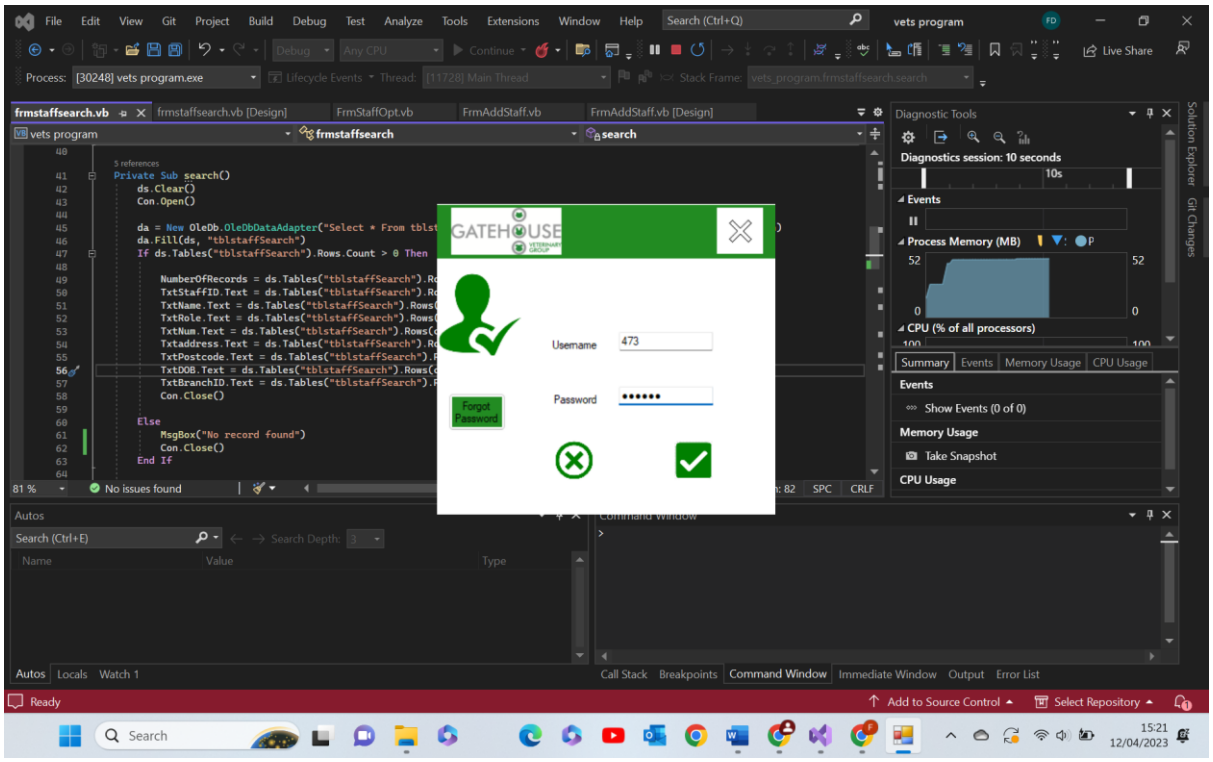




Test 1.5 comments- firstly I would like to state the above incorrect information was entered 5 times before this error message appeared and the text boxes became read only. For proof of this refer to test 1.3. That being said, the function performed exactly as was expected. A unique error message appeared and the text boxes became read only. Pass

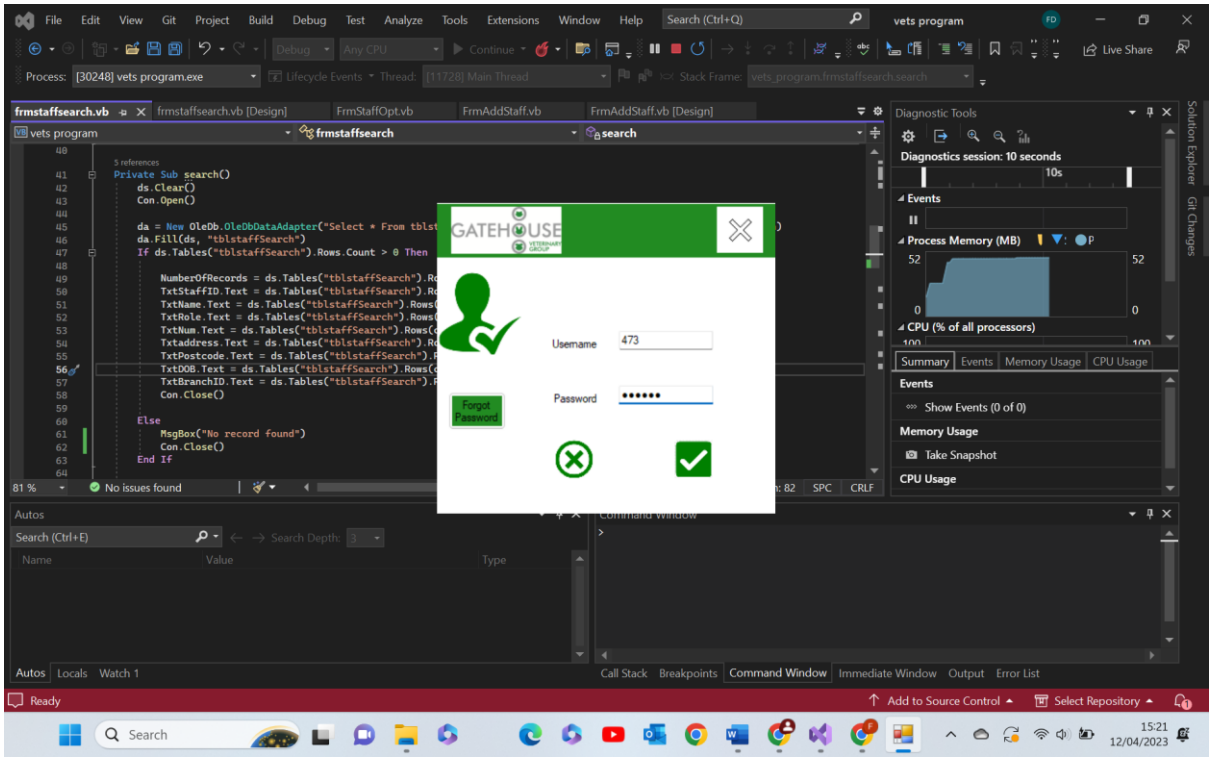
1.6-

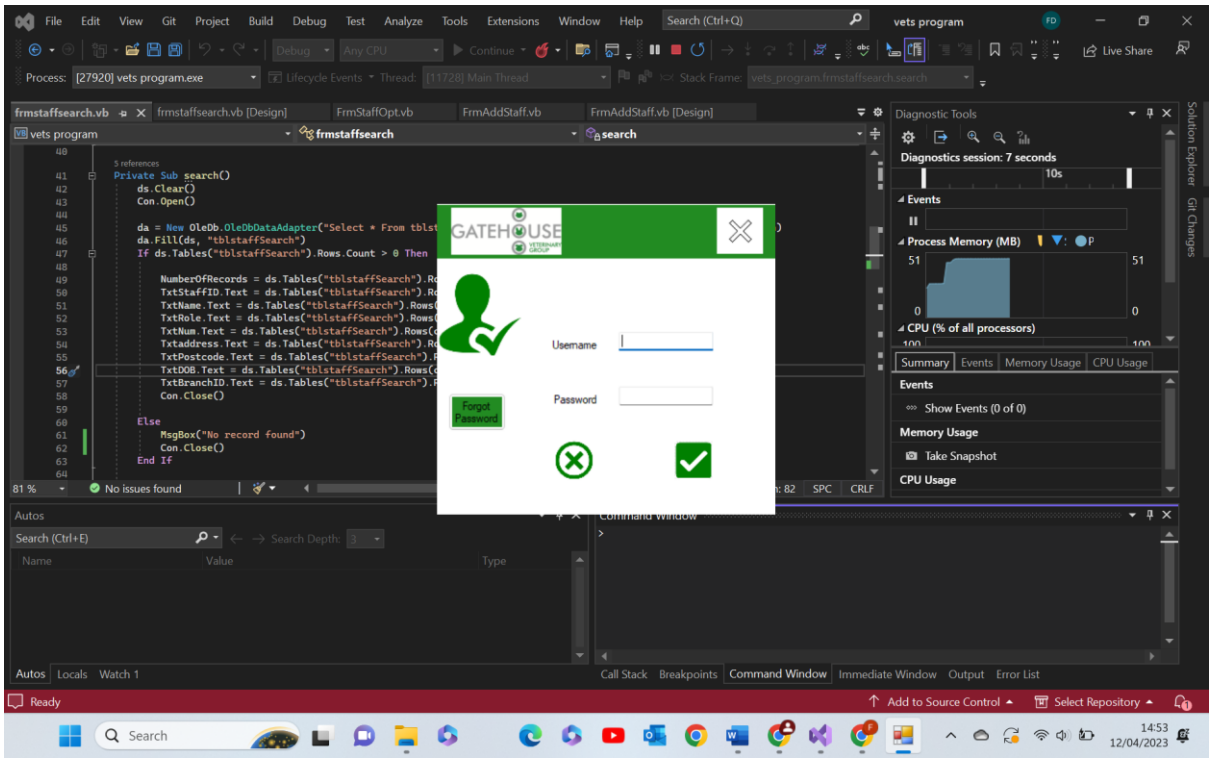




Test 1.6 comments- as shown above once the program recognises that data is being entered into the password text box it concerts it to an ASCII value in this case a large dot. This is exactly as expected. Pass

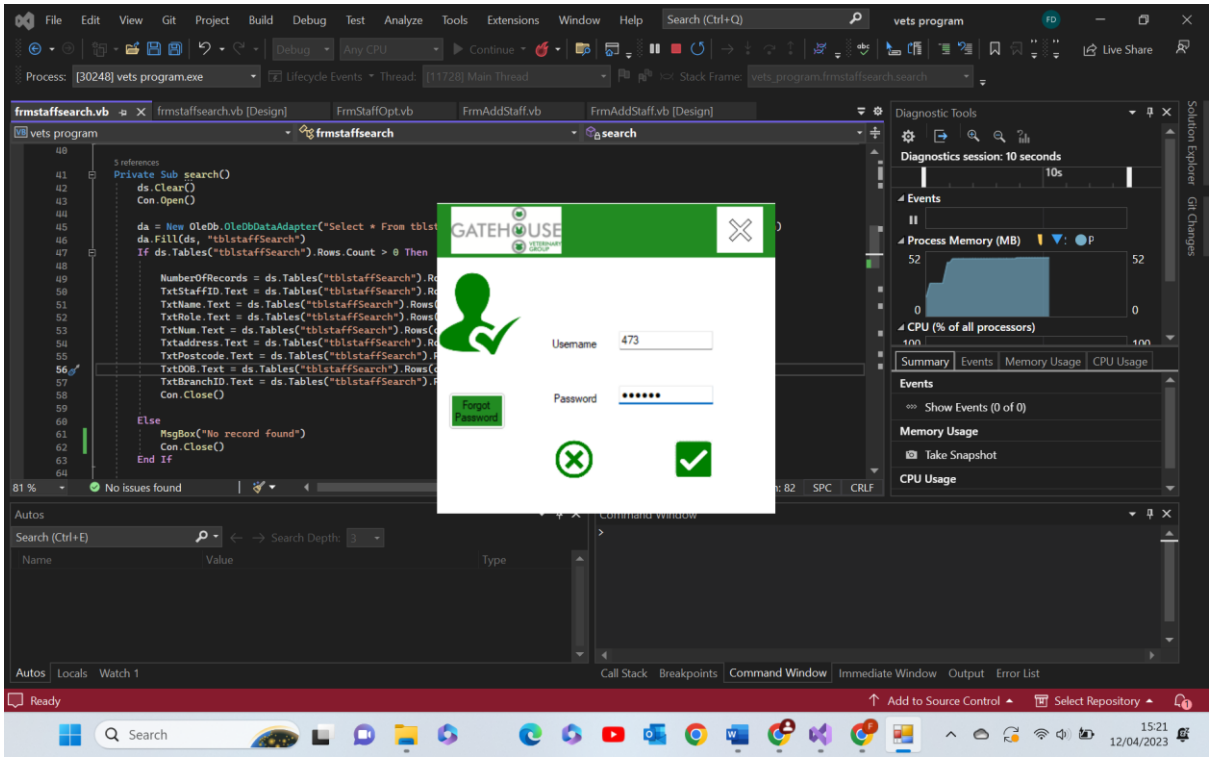
1.7-

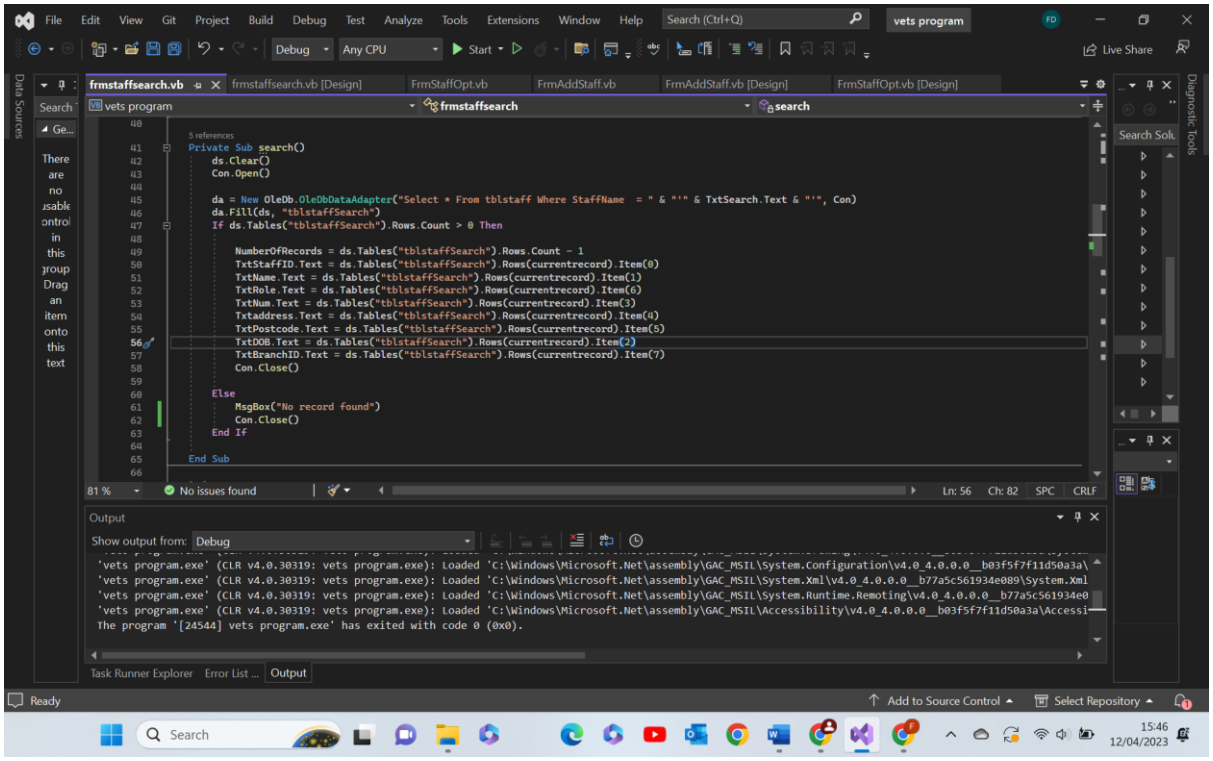




Test 1.7 comments- when the large green cross picture box is selected the text boxes are set = “” and so become void of data. This is for ease of use for the user. This works as expected so Pass

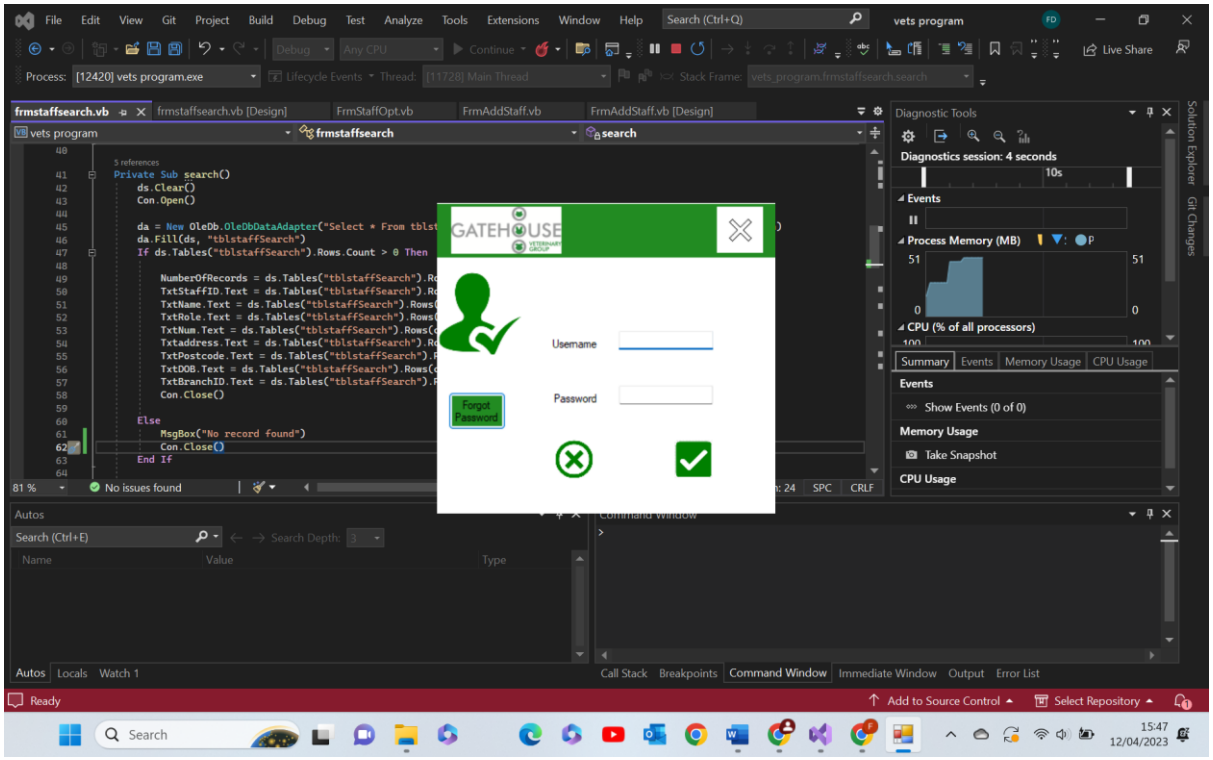
1.8-

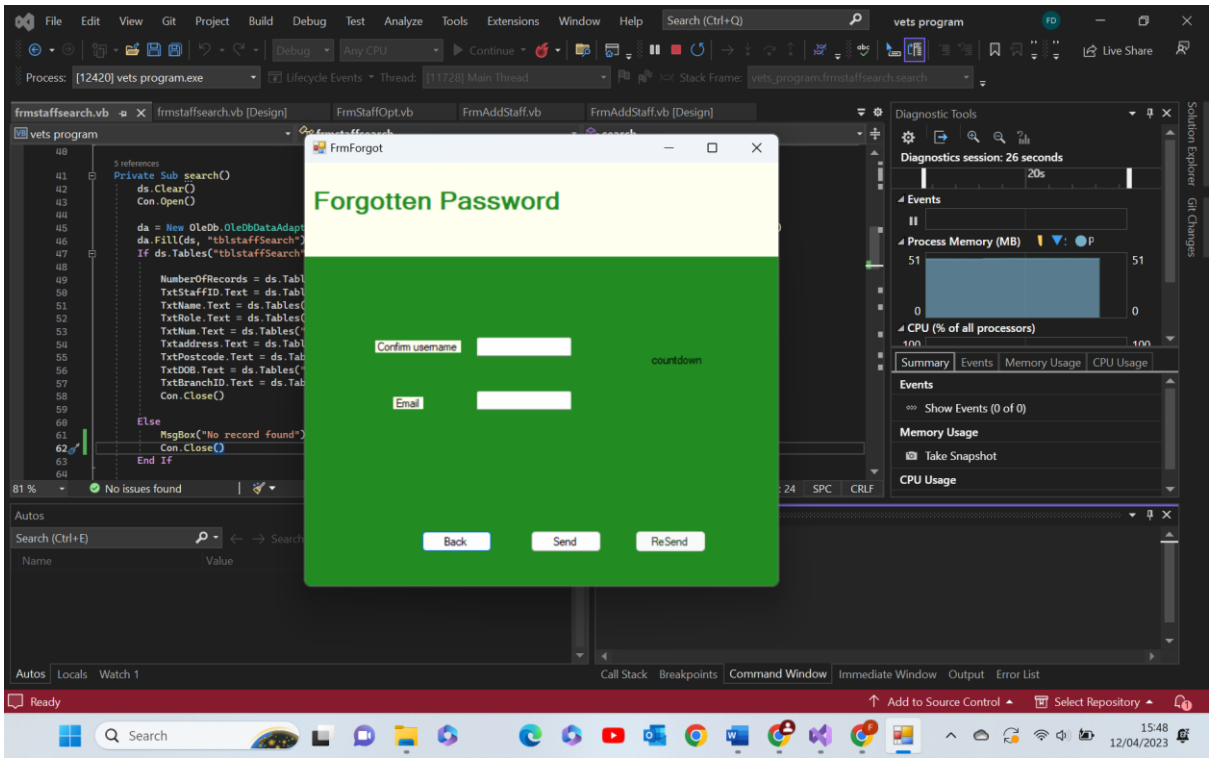




Test 1.8 comments- when the white and black cross in the top right corner is selected the program shuts itself down again aimed for ease of use for user. This is as expected. Pass

1.9-





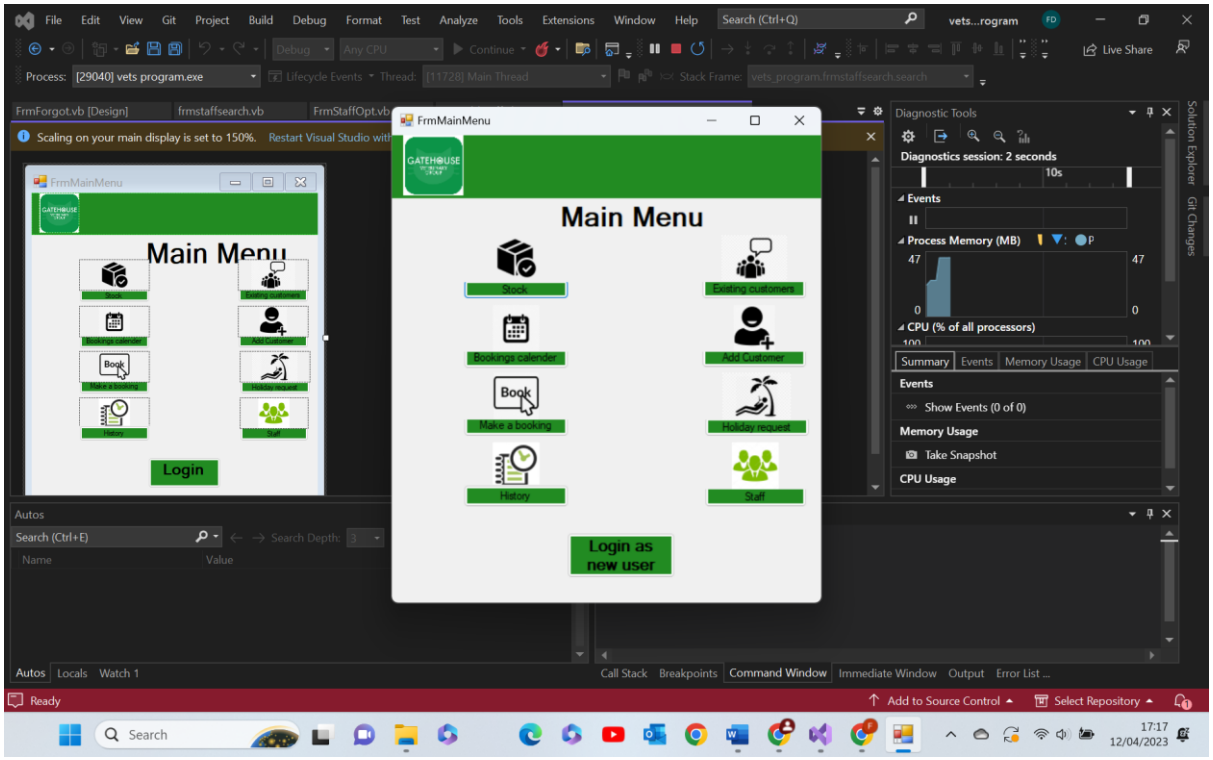
Test 1.9 comments- when the forgot password button is pressed the login form closes and the forgot password page appears. This is especially useful as it's the only button with any meaningful use available after the login textboxes become read only. This performs as expected. Pass

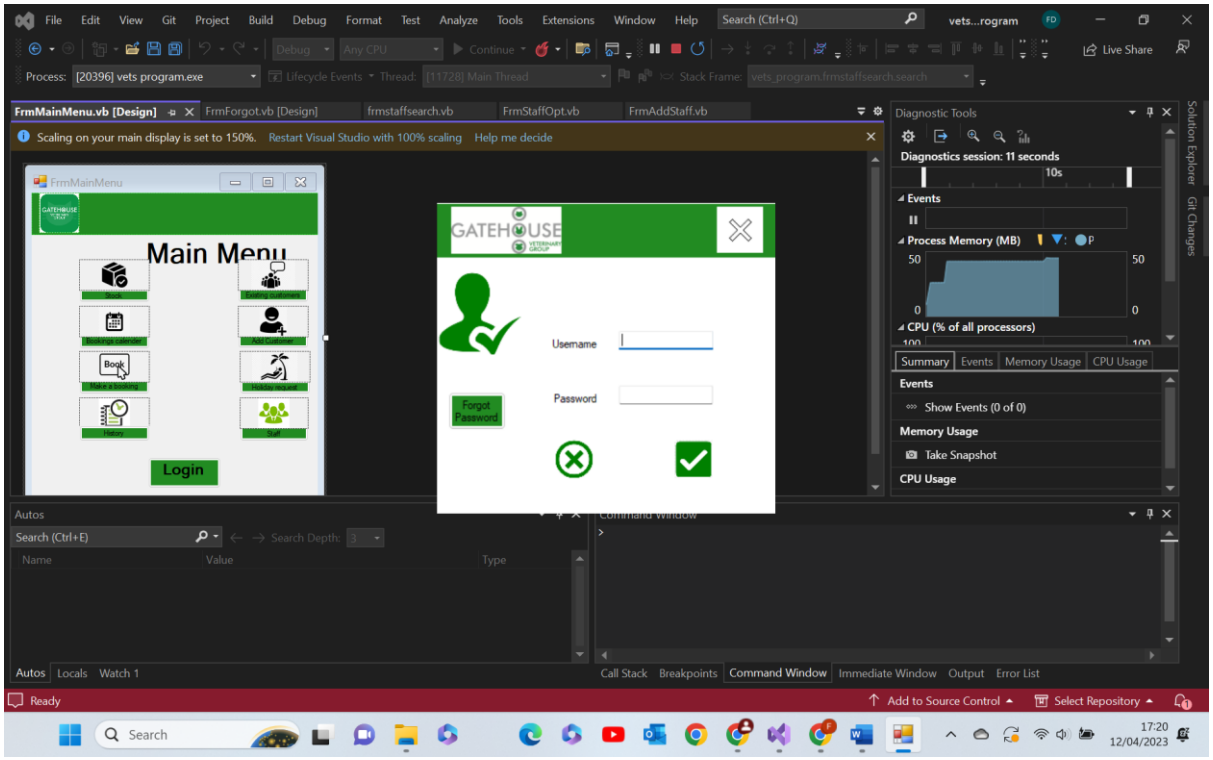
Test Group 2- Main Menu Page:

Test number	Test data used	Actual outcome	verdict	Comments

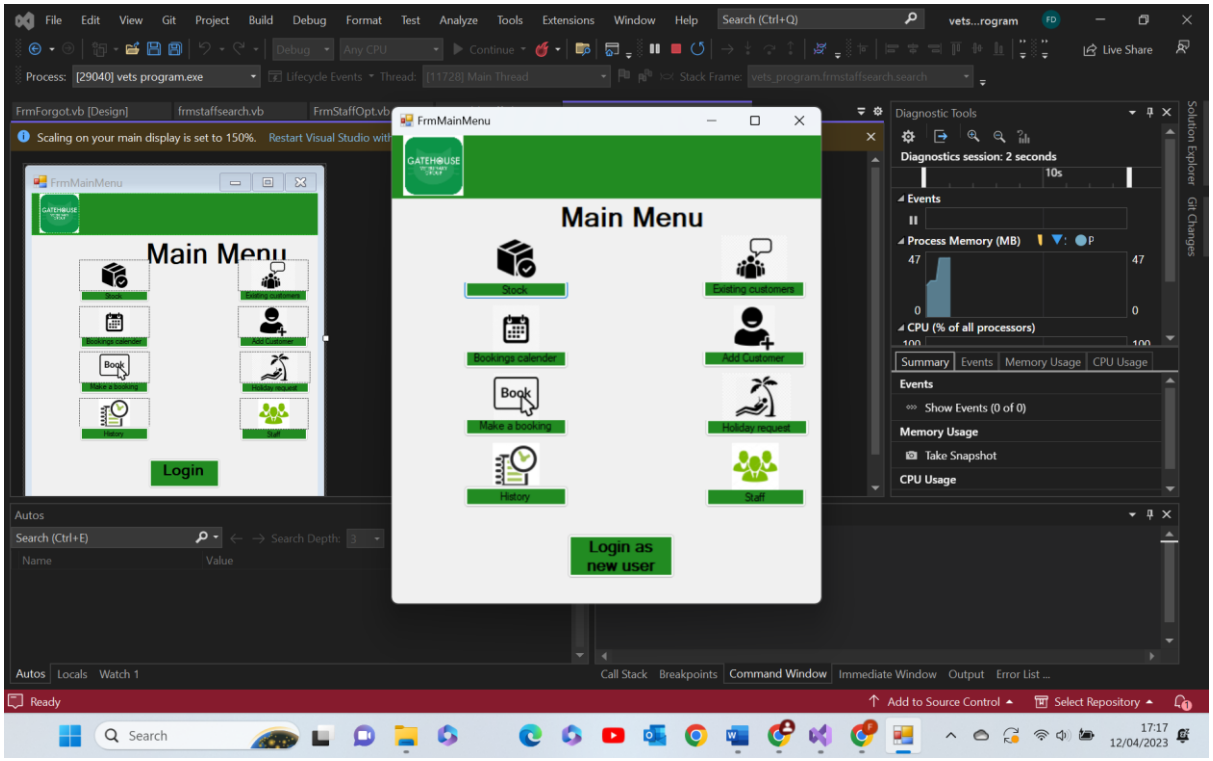
1	N/A Functional test	Expected outcome	Pass	N/A
2	N/A Functional test	Expected outcome	Pass	N/A
3	N/A Functional test	Expected outcome	Pass	N/A
4	N/A Functional test	Expected outcome	Pass	N/A

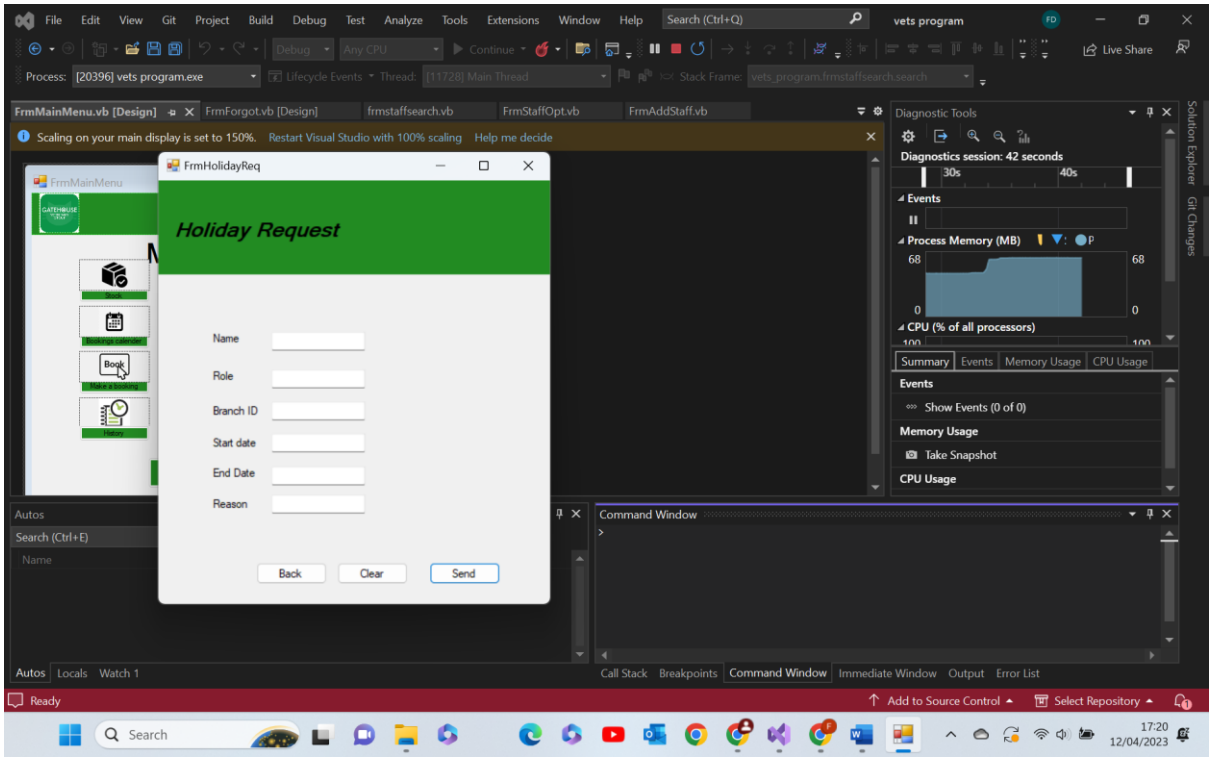
2.1-



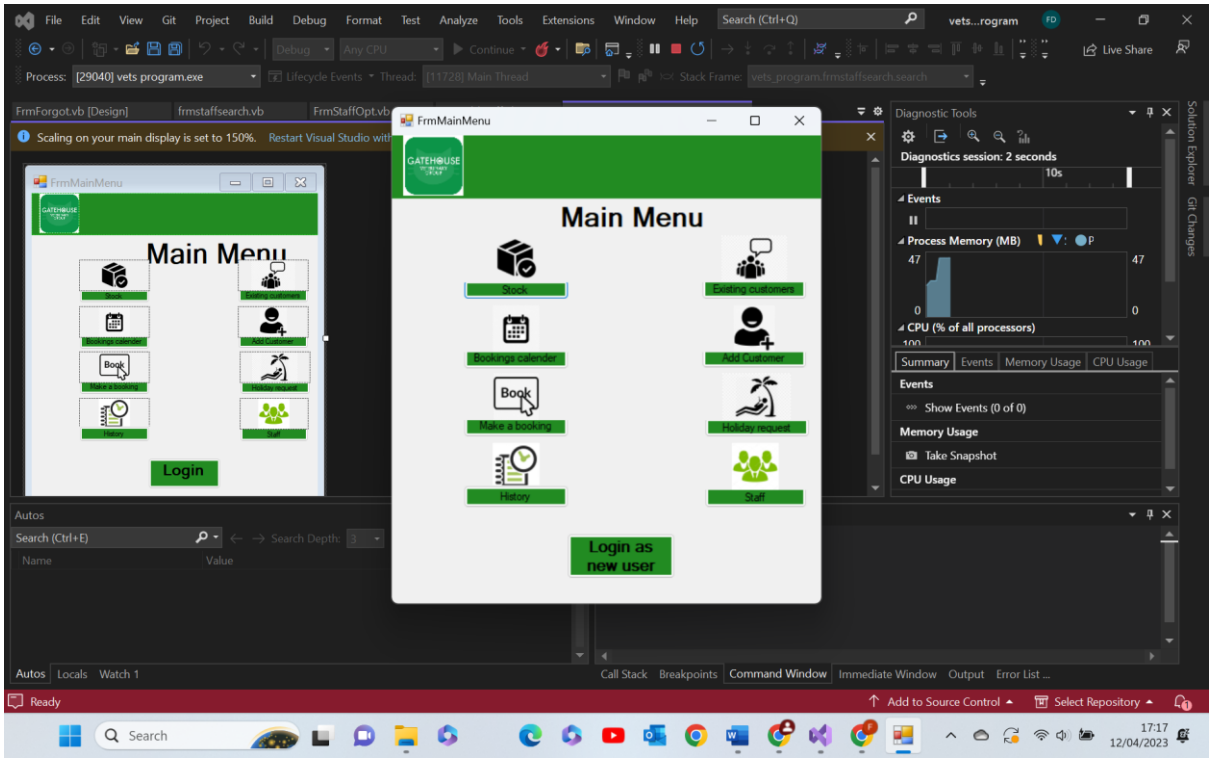

Main Menu
Login
GATEHOUSE
Username
Password
Forgot Password

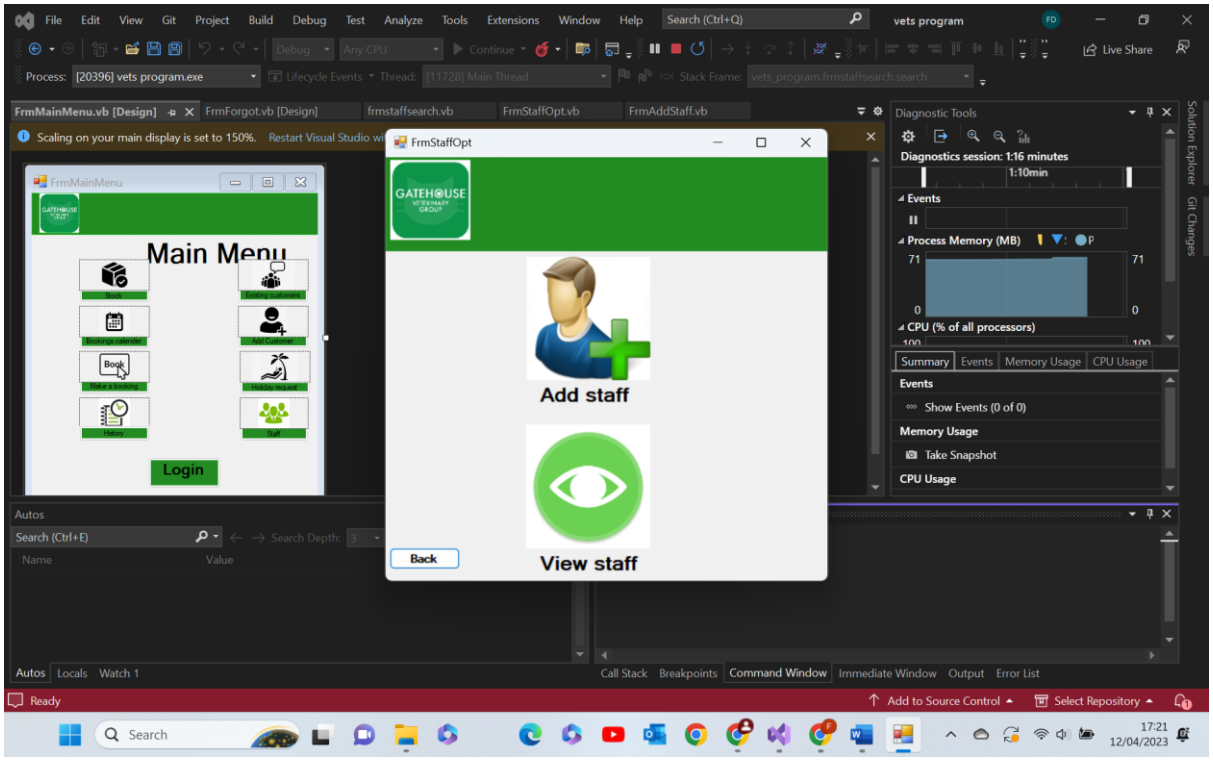
2.2-


Main Menu
Stock
Existing customers
Bookings calender
Add Customer
Book
Make a booking
Holiday request
History
Staff
Login as new user
Login

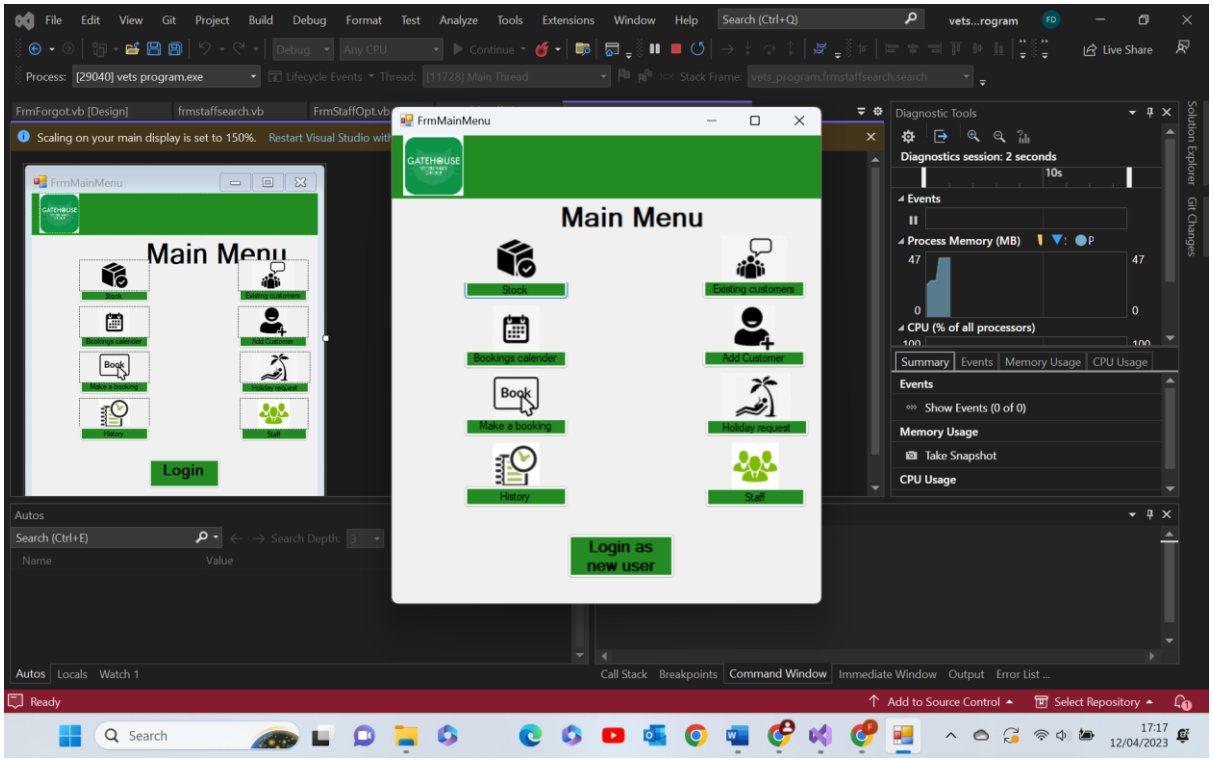

FrmHolidayReq
Holiday Request
Name
Role
Branch ID
Start date
End Date
Reason
Back
Clear
Send
Diagnostic Tools
Diagnostics session: 42 seconds
Command Window

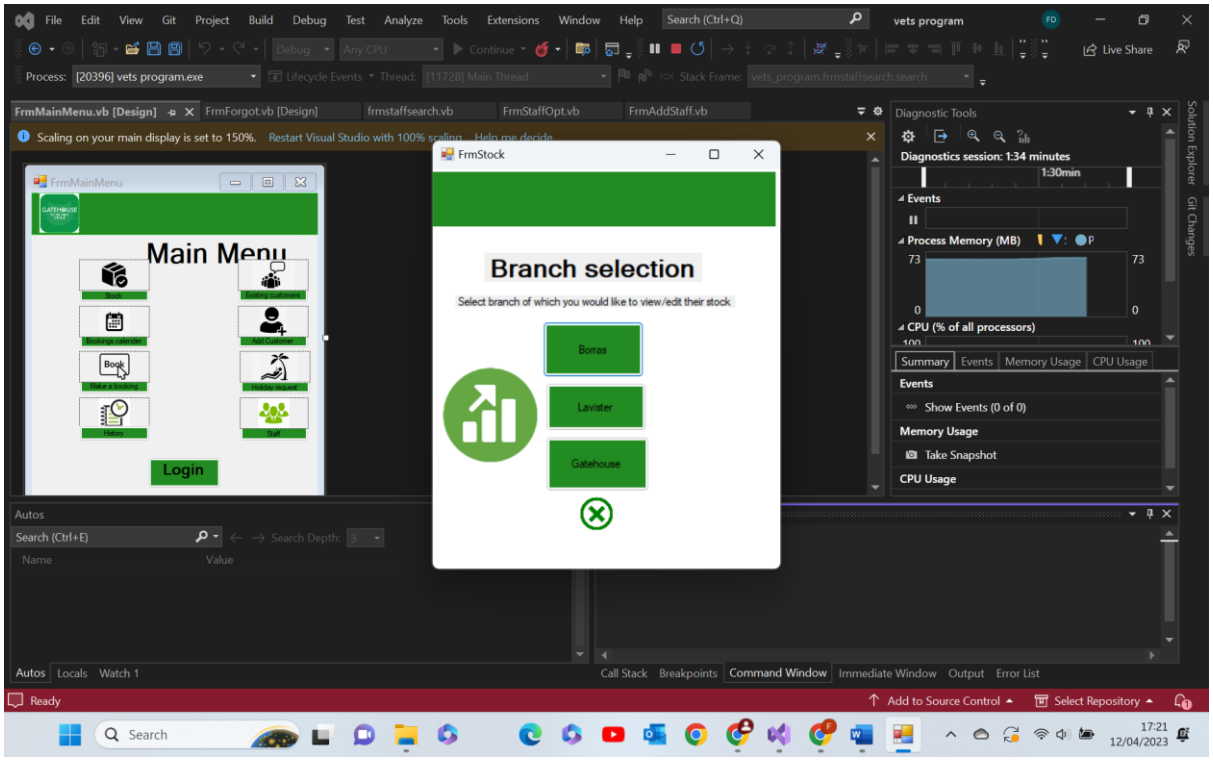
2.3-


FrmMainMenu
Main Menu
Stock
Existing customers
Bookings calender
Add Customer
Book
Make a booking
Holiday request
History
Staff
Login as new user
Login
Diagnostic Tools
Diagnostics session: 2 seconds


FrmStaffOpt
GATEHOUSE
Add staff
View staff
Back
FrmMainMenu
Main Menu
Login
Diagnostic Tools
Diagnostics session: 1:16 minutes
Events
Process Memory (MB)
CPU (% of all processors)
Summary
Events
Memory Usage
CPU Usage
Show Events (0 of 0)
Take Snapshot
Autos
Search (Ctrl+E)
Name
Value
Call Stack
Breakpoints
Command Window
Immediate Window
Output
Error List
Ready
Add to Source Control
Select Repository

2.4-


FrmMainMenu
GATEHOUSE
Main Menu
Stock
Existing customers
Bookings calender
Add Customer
Book
Make a booking
Holiday request
History
Staff
Login as new user
Login
Diagnostic Tools
Diagnostics session: 2 seconds
Events
Process Memory (MB)
CPU (% of all processors)
Summary
Events
Memory Usage
CPU Usage
Show Events (0 of 0)
Take Snapshot
Autos
Search (Ctrl+E)
Name
Value
Call Stack
Breakpoints
Command Window
Immediate Window
Output
Error List
Ready
Add to Source Control
Select Repository

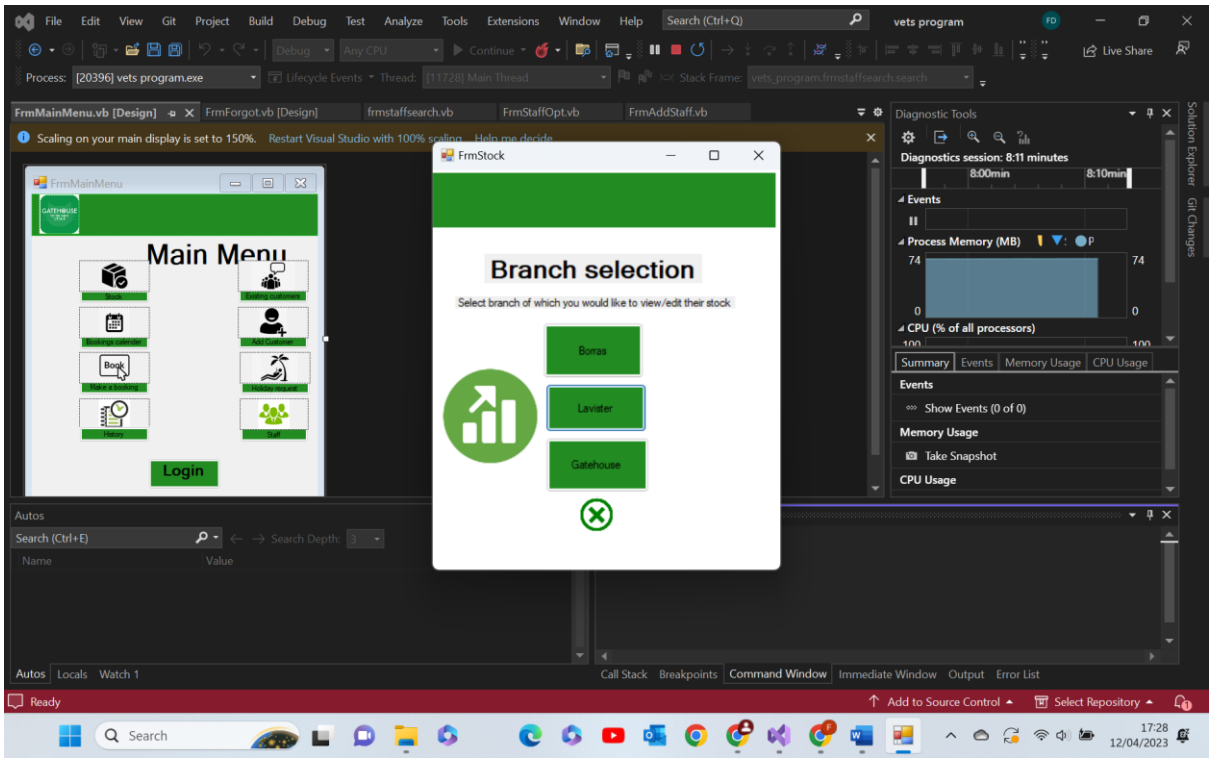


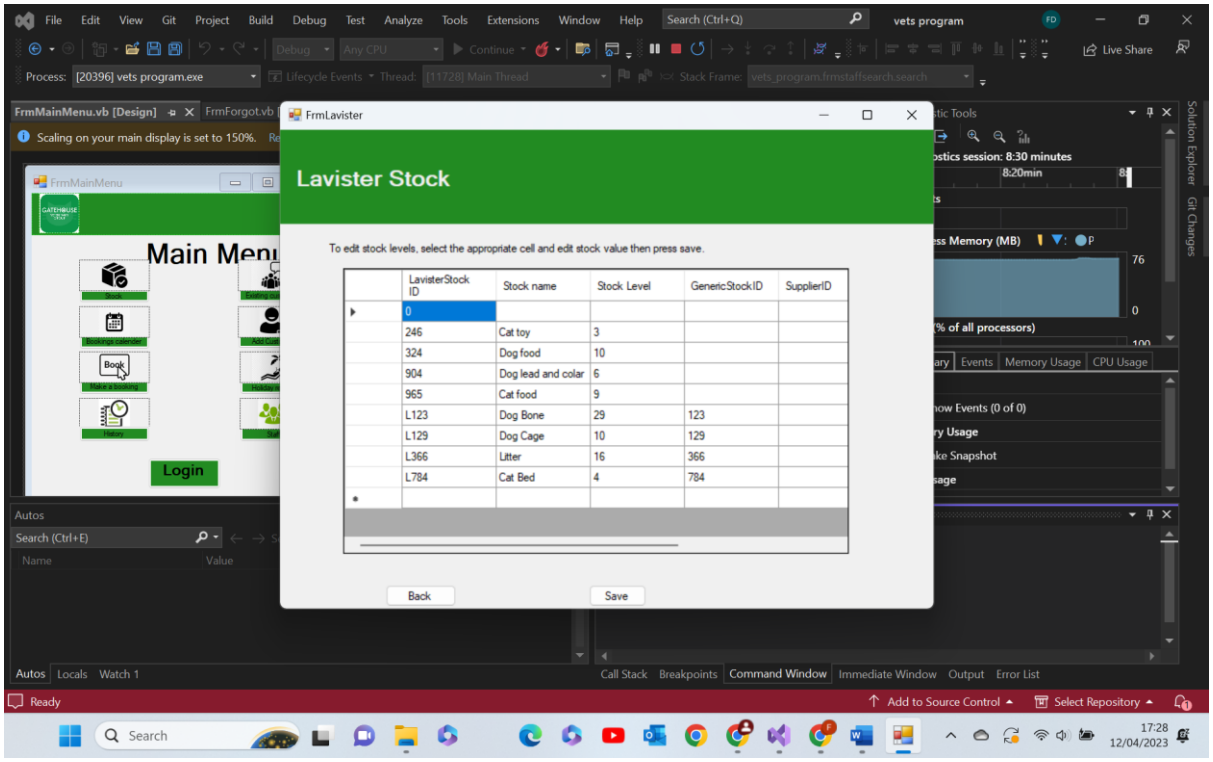
Test group 2 all encompassing comments- as shown above all forms and functions within said forms acted exactly as expected, the main menu page was closed and the form linked with the button was shown. As this works for 4 out of then 9 buttons this tests validity is maintained and we can fairly assume that these functional tests were a success and all worked. Pass

Test Group 3- Stock Selection Page

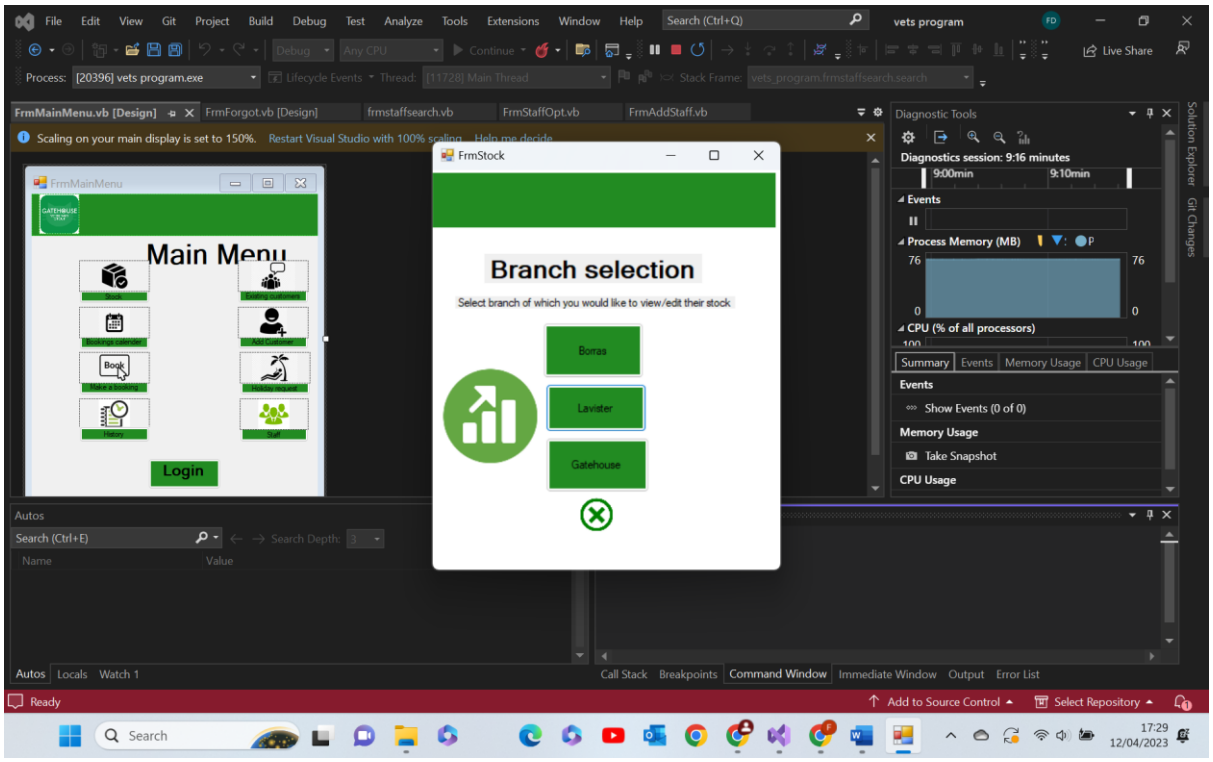
Test number	Test Data	Actual outcome	Verdict	Comment
1	N/A Functional test	Form closed proceeded by main menu form opening	Pass	N/A
2	N/A Functional test	Form closed proceeded by lavister stock form opening	Pass	N/A

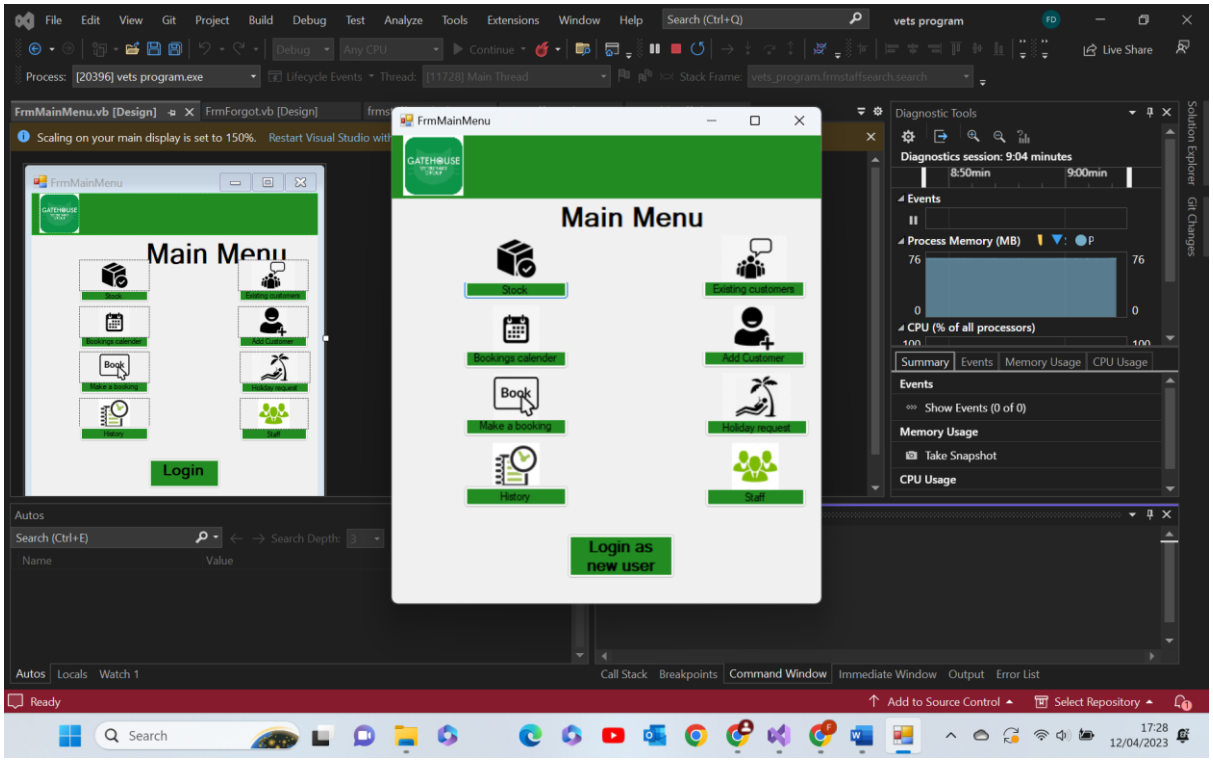
3.1-


FrmStock
Branch selection
Select branch of which you would like to view/edit their stock
Borras
Lavister
Gatehouse
FrmMainMenu
Main Menu
Login


FrmLavister
Lavister Stock
To edit stock levels, select the appropriate cell and edit stock value then press save.
LavisterStock ID
Stock name
Stock Level
GenericStockID
SupplierID
0
246 Cat toy 3
324 Dog food 10
904 Dog lead and colar 6
965 Cat food 9
L123 Dog Bone 29 123
L129 Dog Cage 10 129
L366 Litter 16 366
L784 Cat Bed 4 784
Back
Save
FrmMainMenu
Main Menu
Login

3.2-





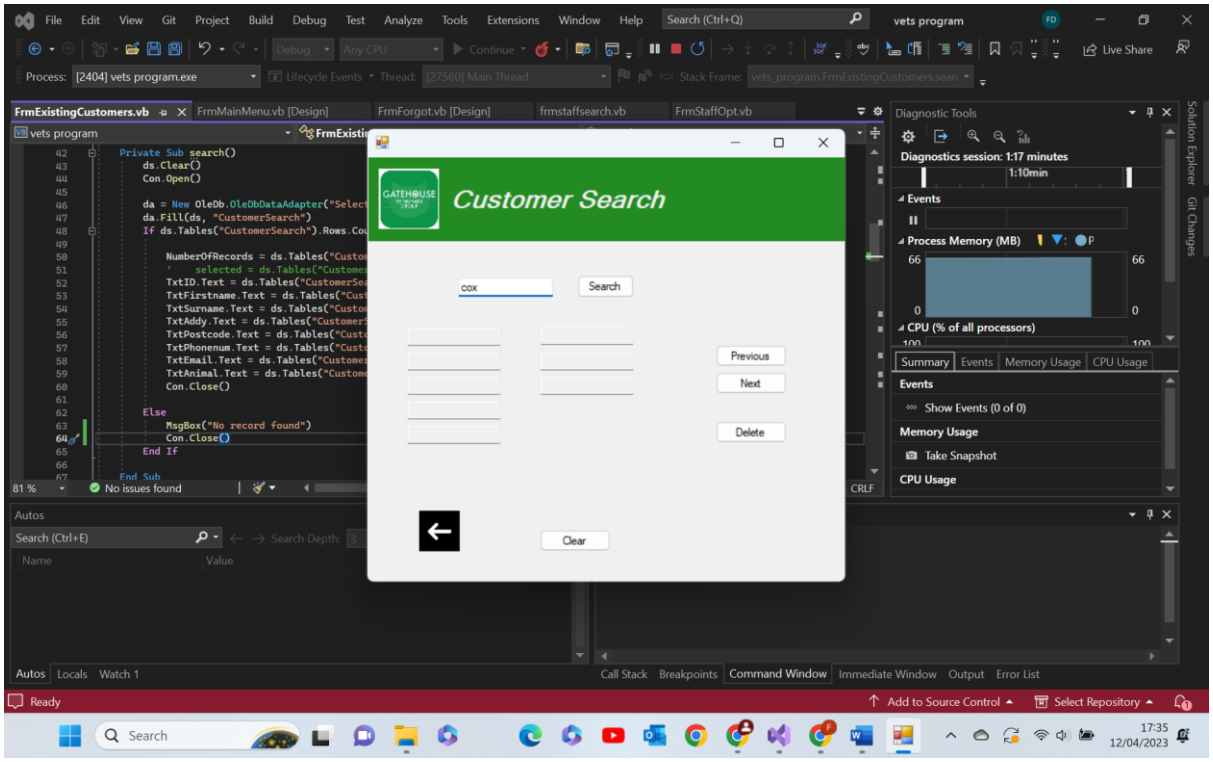
Test group 4 all-encompassing comments- as we can see above each functional test performed exactly as expected closing and opening the necessary forms. Pass

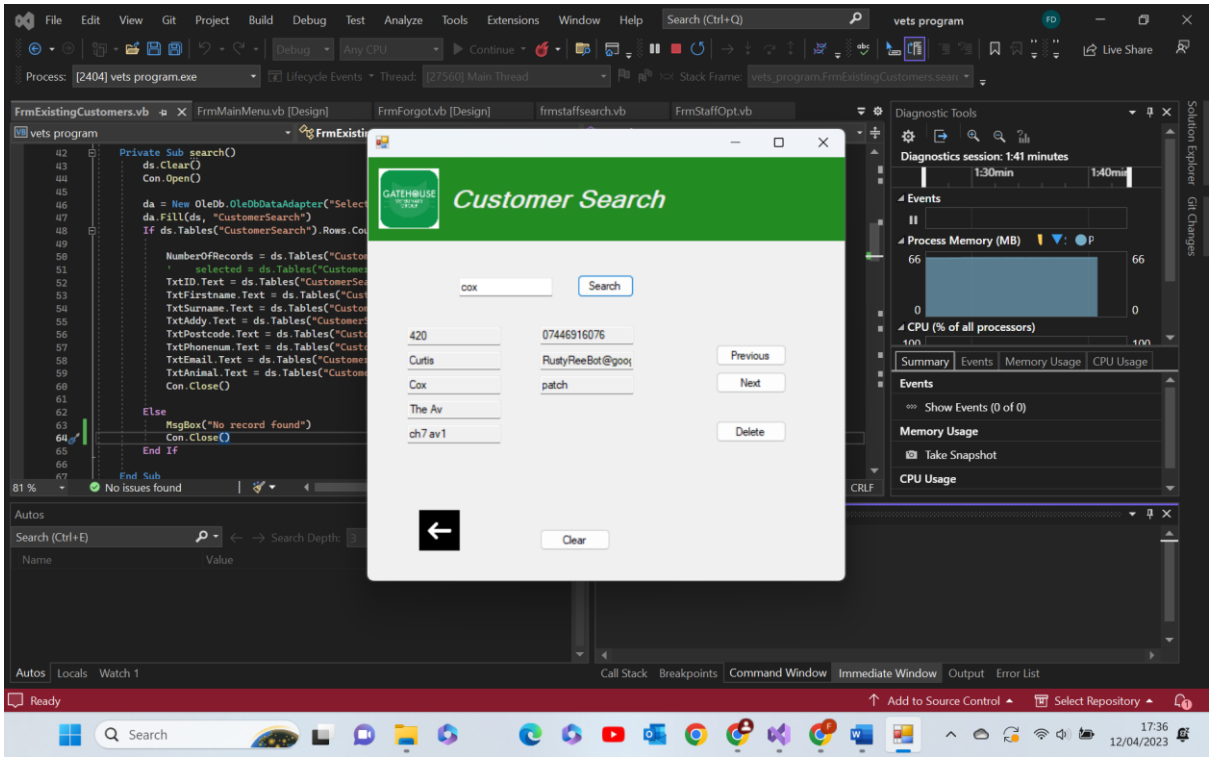
Test Group 4- Existing Customers:

Test number	Test data	Actual outcome	Verdict	Comment
1	Valid test data type ‘Curtis Cox’ name searched	As expected, The text boxes were filled with the correlating data	Pass	N/A
2	Valid Name ‘Curtis Cox’ and ‘Dylan Cox’ used due to shared surname	Worked as expected cycling ‘forward’ through the table showing each name and information associated	Pass	Started with information on ‘Curtis Cox’ presumably due to ‘C’ being earlier alphabetically than ‘D’. May however, be a fluke result. I future could program a sort that ensures names appear and are cycled through alphabetically.
3	Valid Name ‘Curtis Cox’ and ‘Dylan Cox’ used due to shared surname	Worked as expected cycling ‘backward’ through the table showing each name and information associated	Pass	Same as above comment
4	Invalid test data type Used name ‘Cur1s C0x’	As expected a message box appeared alerting the user that the name does not appear in the database.	Pass	N/A
5	Valid	As expected a message box appears ensuring the users is certain. When ‘Ok’ is pressed the record is removed	Pass	N/A
6	Extreme	When button is pressed, the same thing happens as if there is valid data in the text boxes. Not what was expected	Fail	Not sure what if anything deletes when button is pressed. Need to add another ‘If’ statement for if there is no data in the textboxes.
7	Valid/extreme	Regardless of what was in the boxes they became clear, and remained clear if it had no data to begin with.	Pass	Could add a feature with a message box if no data is in the text boxes but I am not sure this is necessary.
8	N/A Functional test	Performs as expected	Pass	N/A

9	extreme	Performs as expected however uses same message box as was used in the invalid data type test	Pass	Could add another IF function with a different message box if no data is in it.

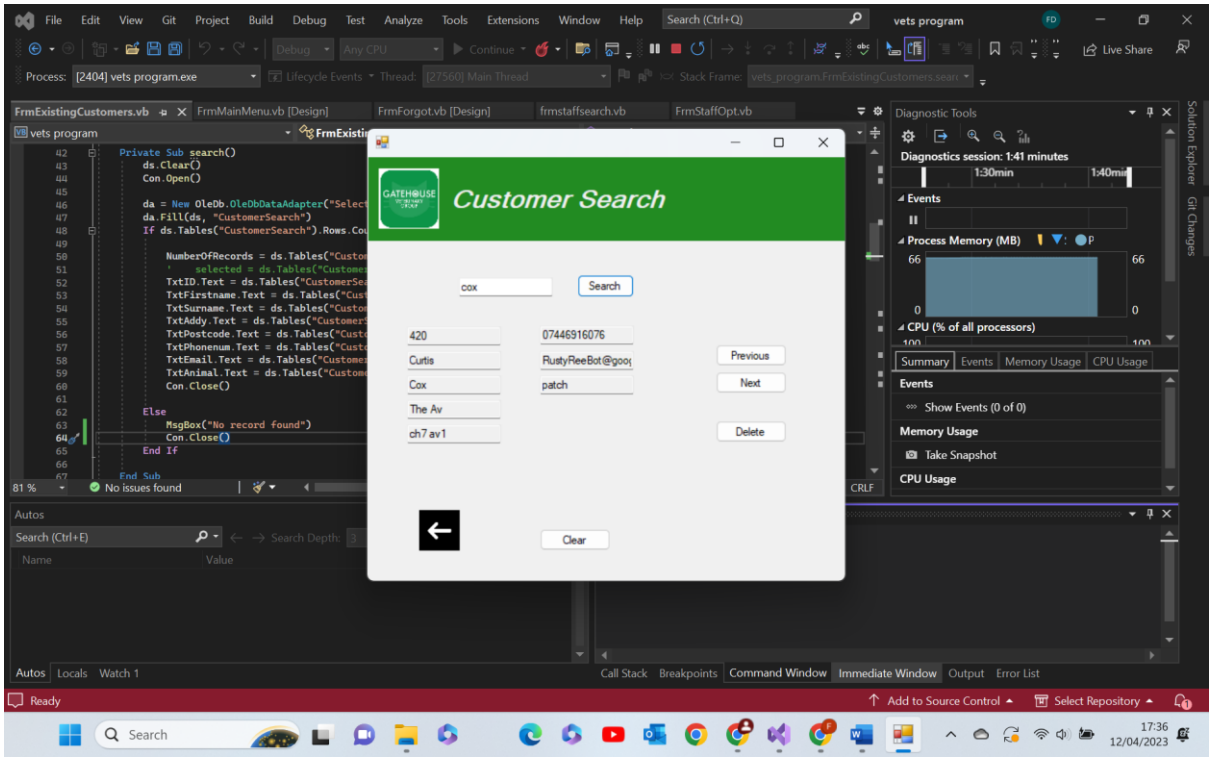
4.1-

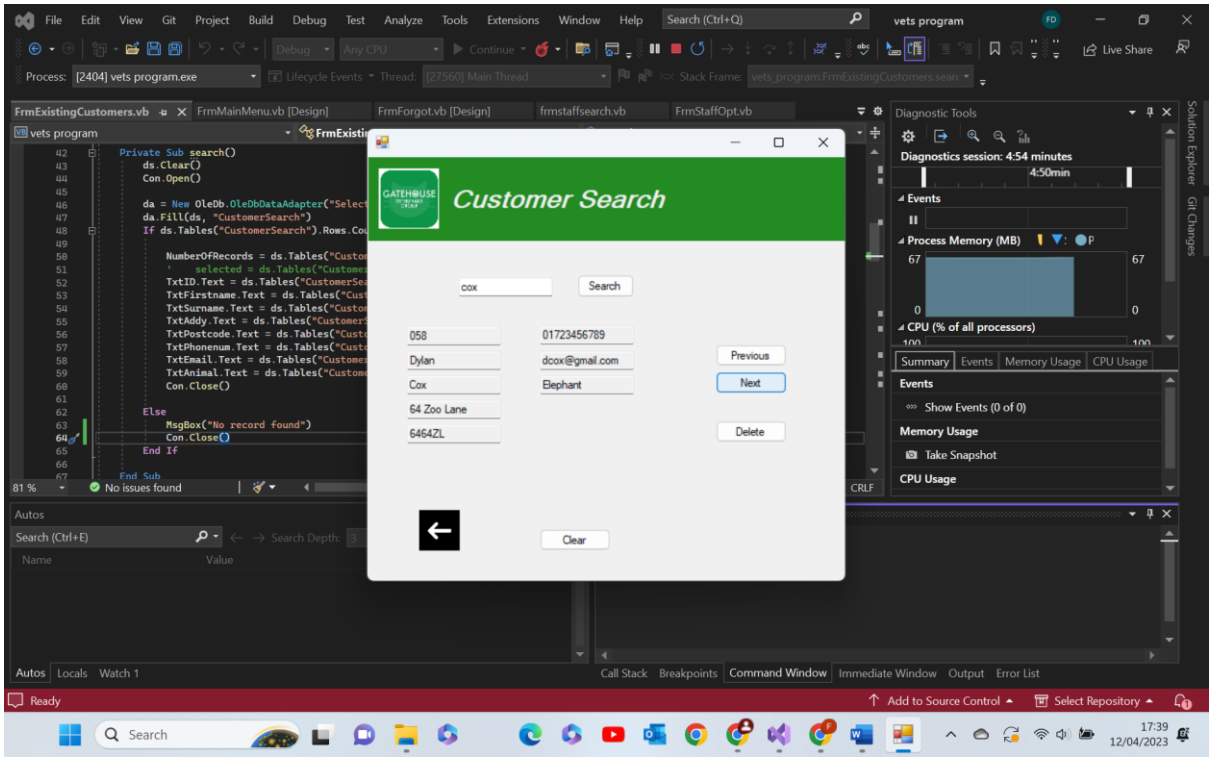




Test 4.1 comments- as shown above when a valid piece of data is searched for, such as the surname ‘cox’ the correlating results are shown within the text boxes. The info is checked against the database, if it exists it is then read and written into the text boxes shown. Pass

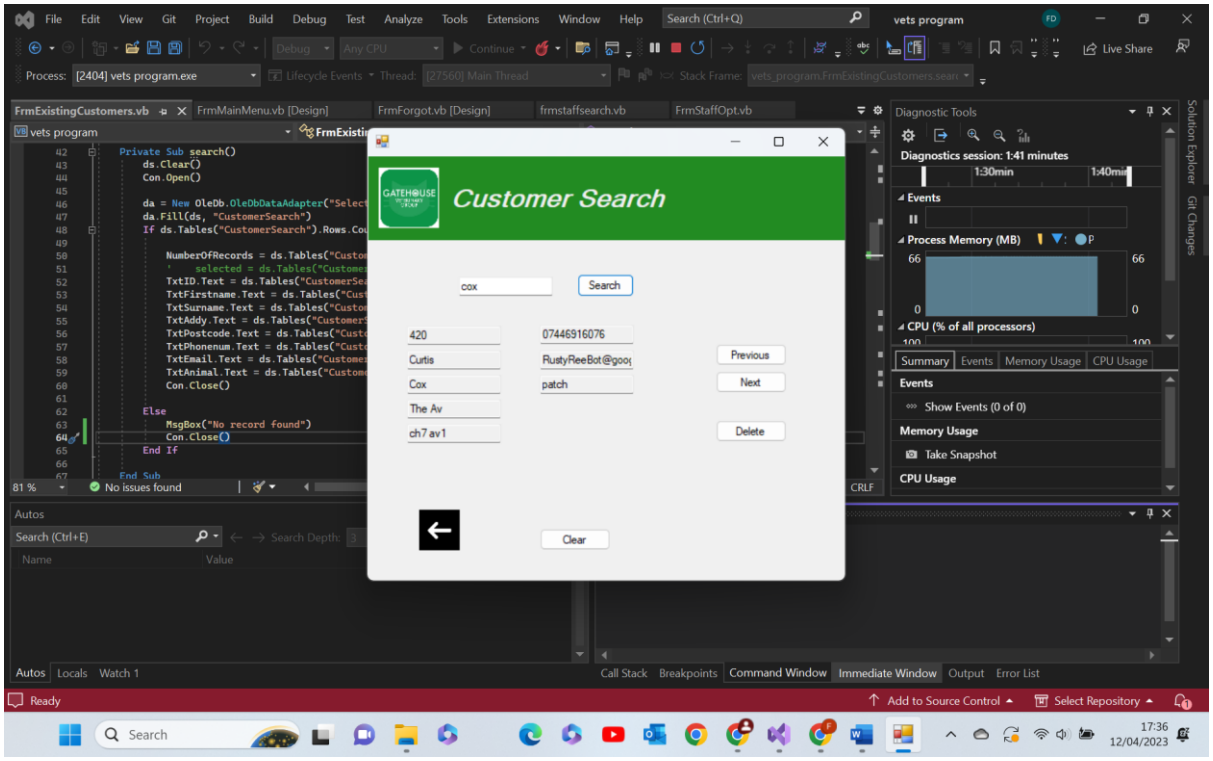
4.2-

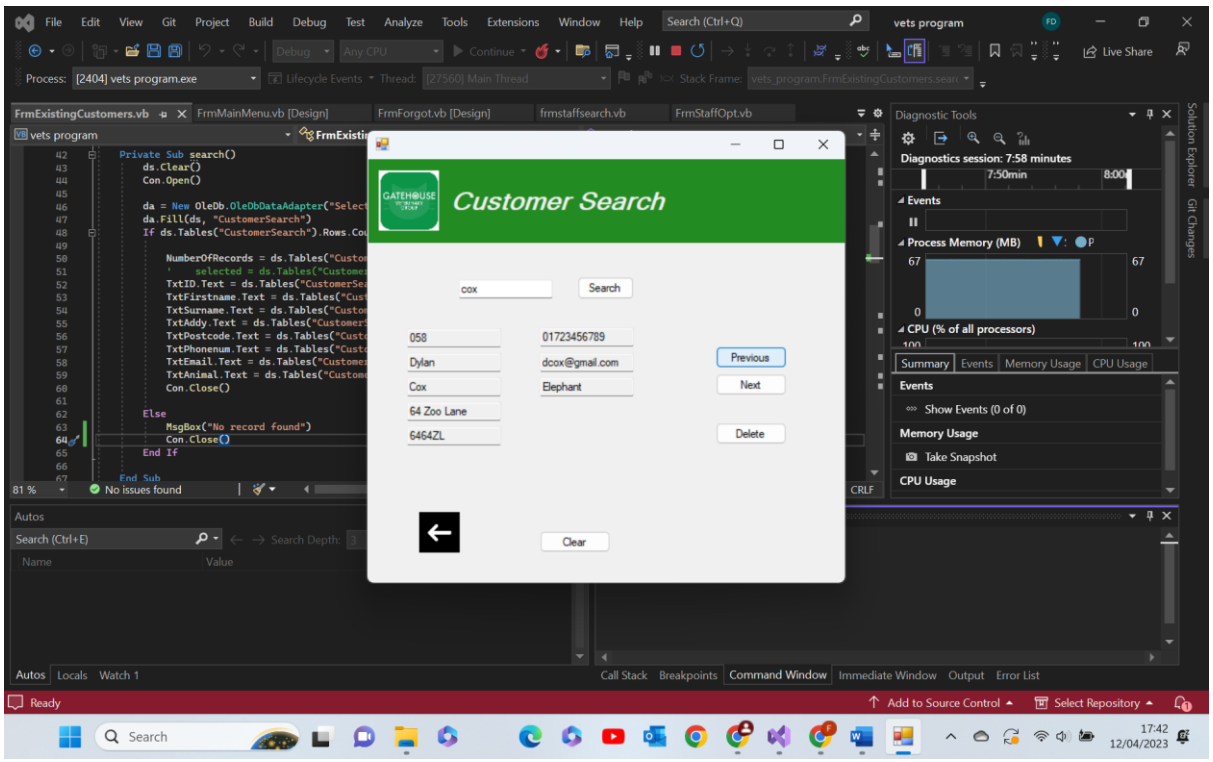




Test 4.2 comments- as expected the program has recognised that multiple people have the same surname in the database and the next button has allowed us to cycle through and view the other client with the same name and their details. Pass

4.3-

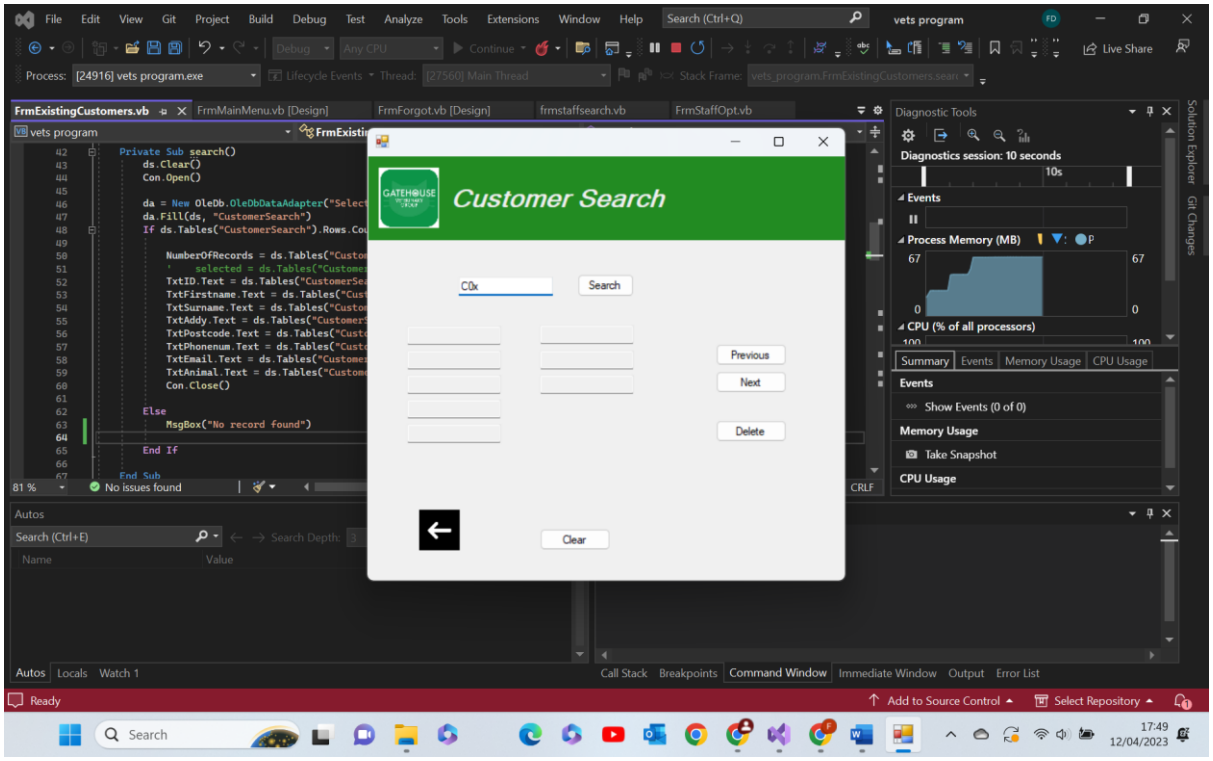


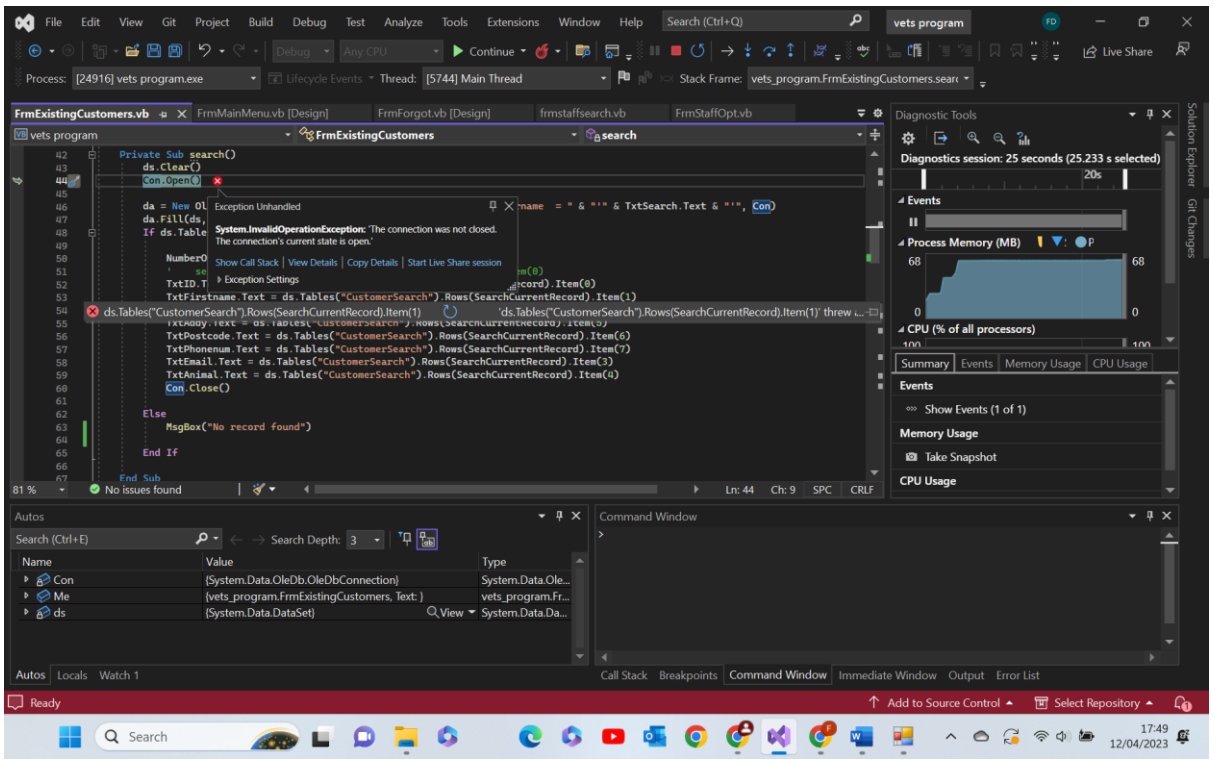


Test 4.3 comments- as expected the program has recognised that multiple people have the same surname in the database and the previous button has allowed us to cycle

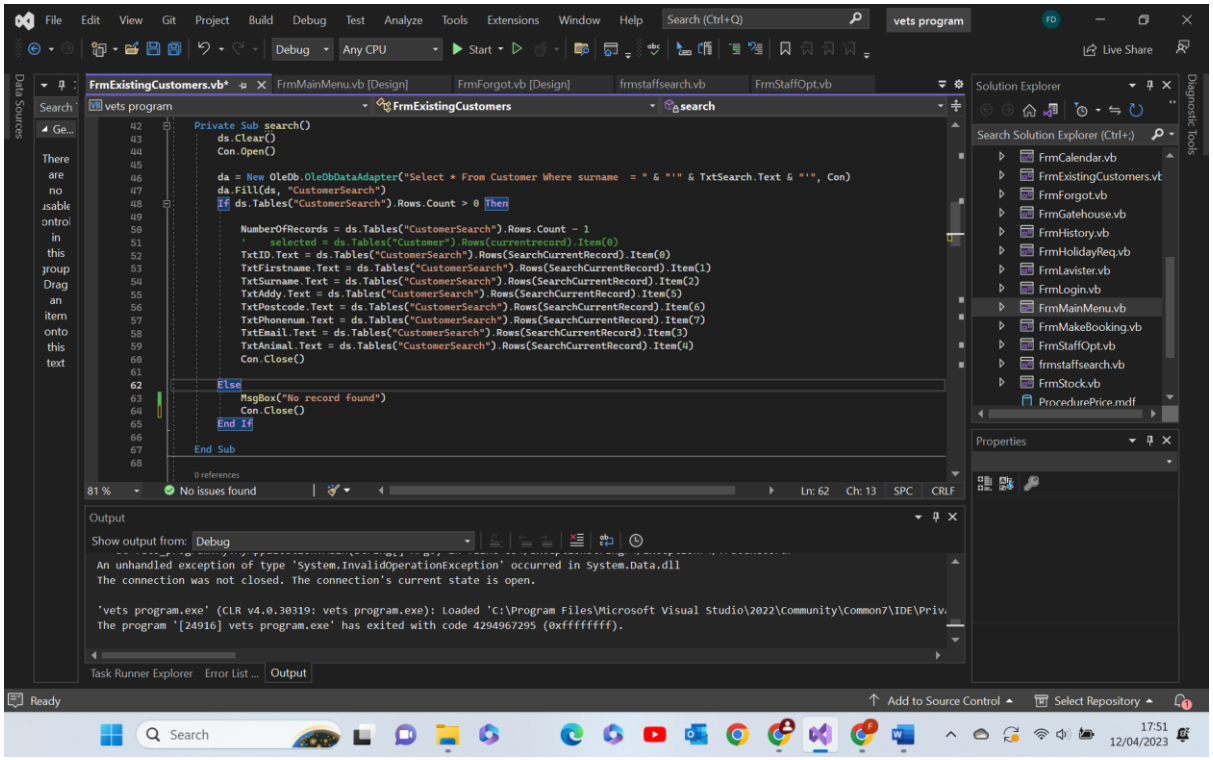
through and view the other client with the same name and their details. The reason that this test appears identical to the last is because only two clients share a surname and so only two different records can be cycles through. Pass

4.4-



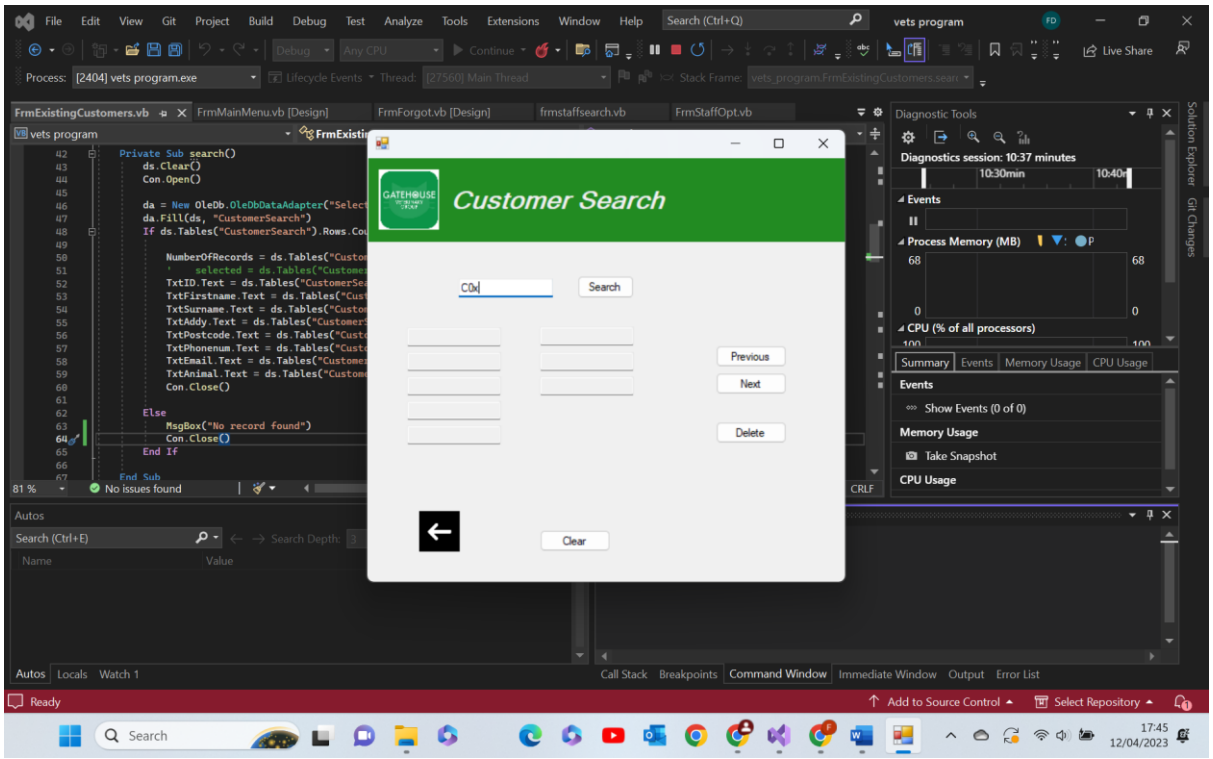


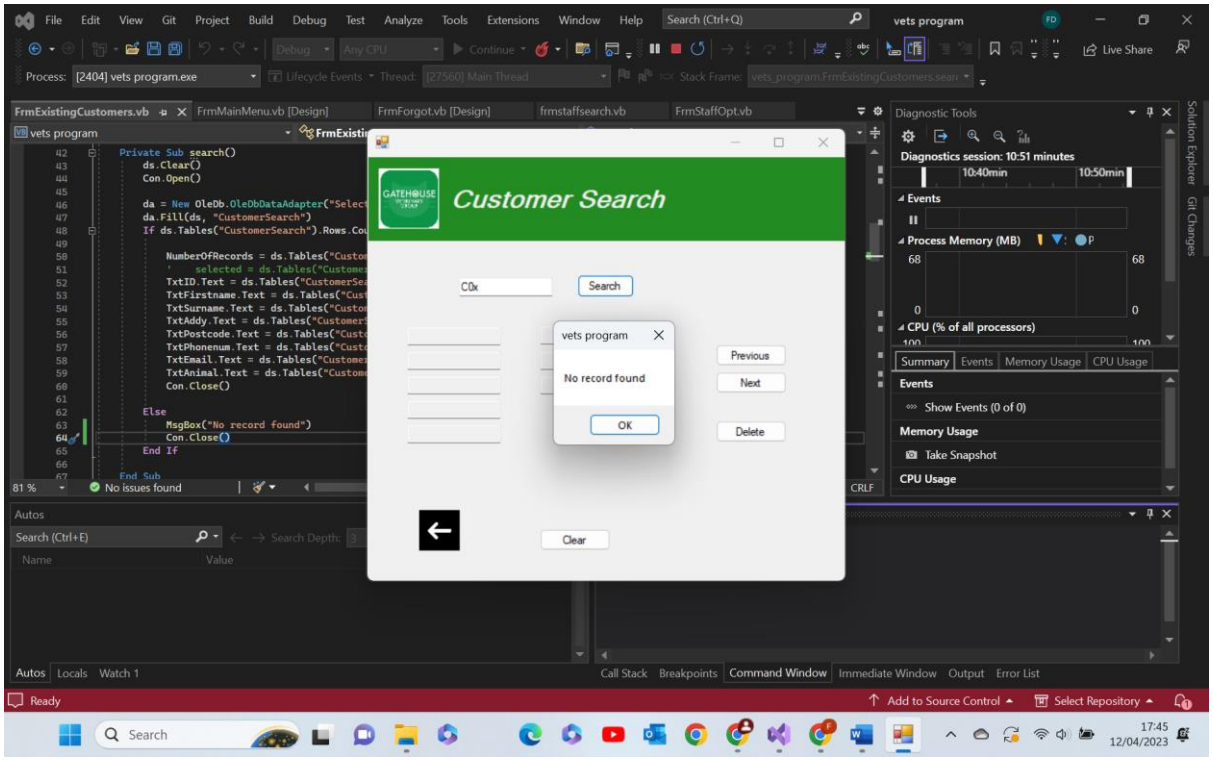
This test has failed however since it is a quick fix I shall repair it.



Test 4.4 comments- as shown above, initially the code did not work as intended however I have reprimanded this by adding 'con.close()' in the 'Else' function. This should fix the issue and I will re test it. Failed

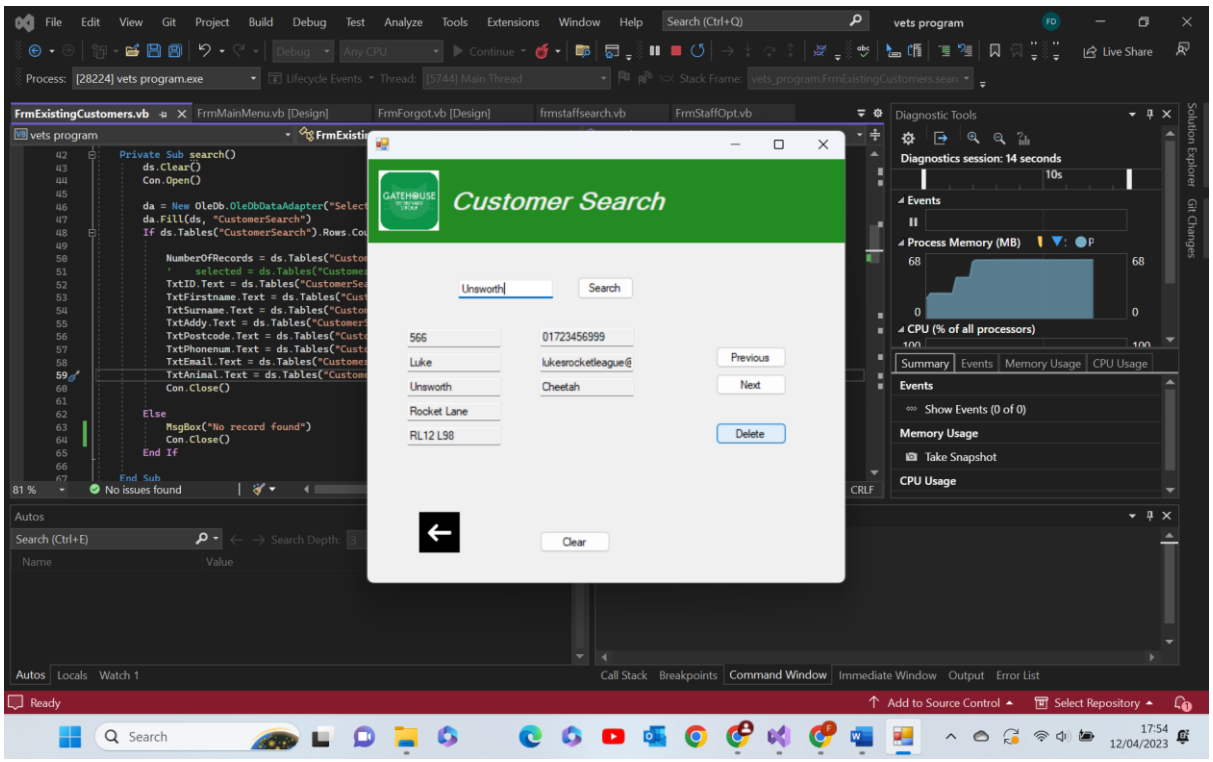
4.4 fixed-

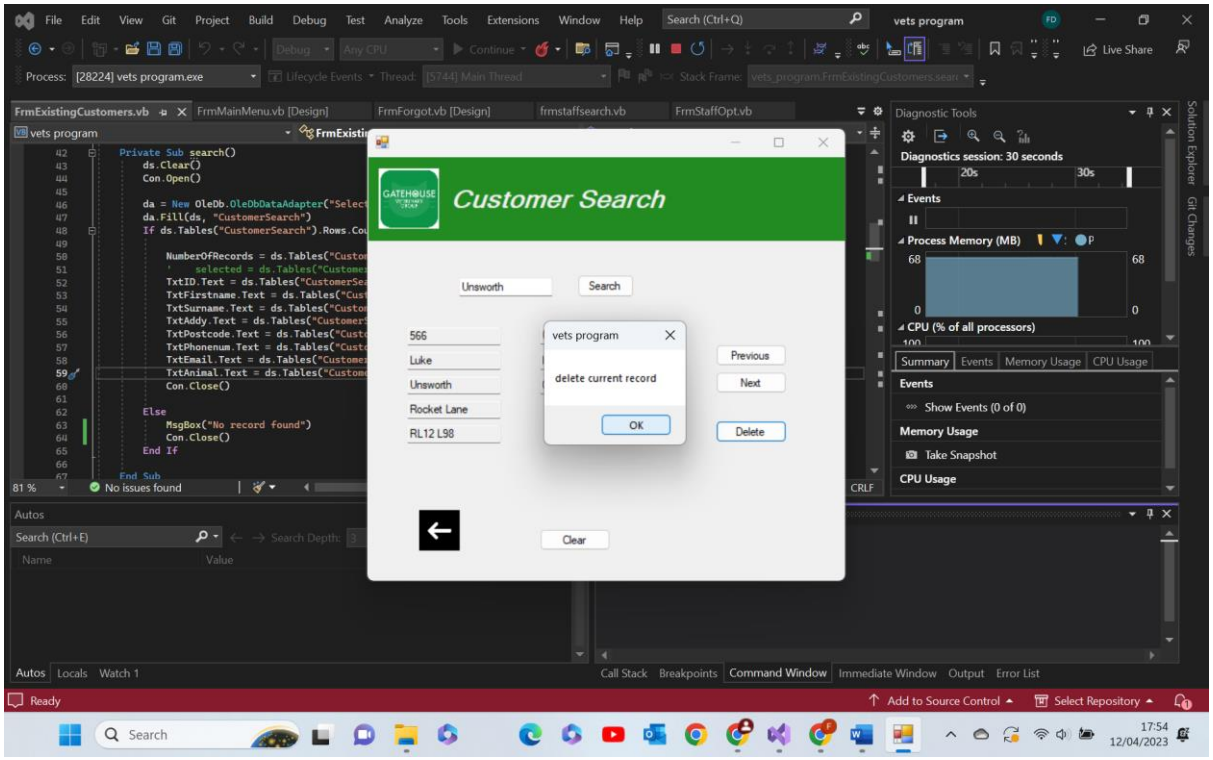




Test 4.4 comments- as shown above when an incorrect data is entered now It recognises that the data does not appear in the database and outputs a valid message box warning the user of the issue. Fixed, Pass

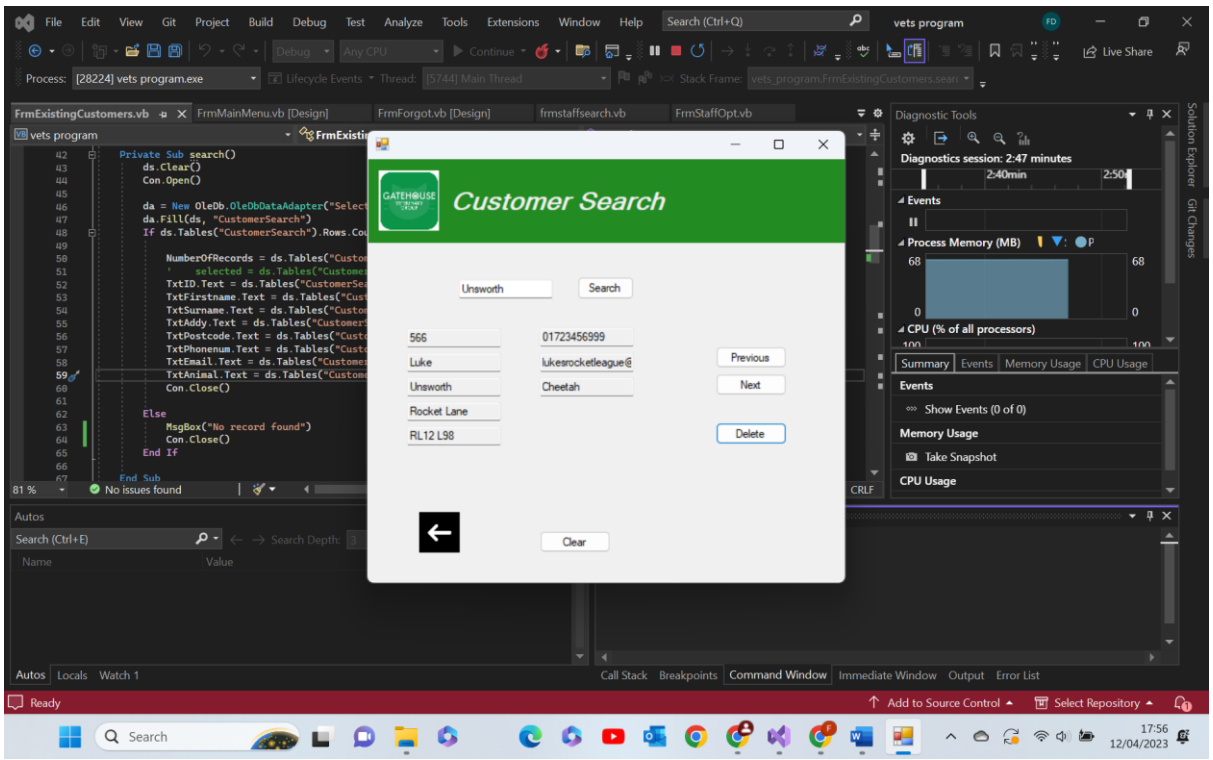
4.5-





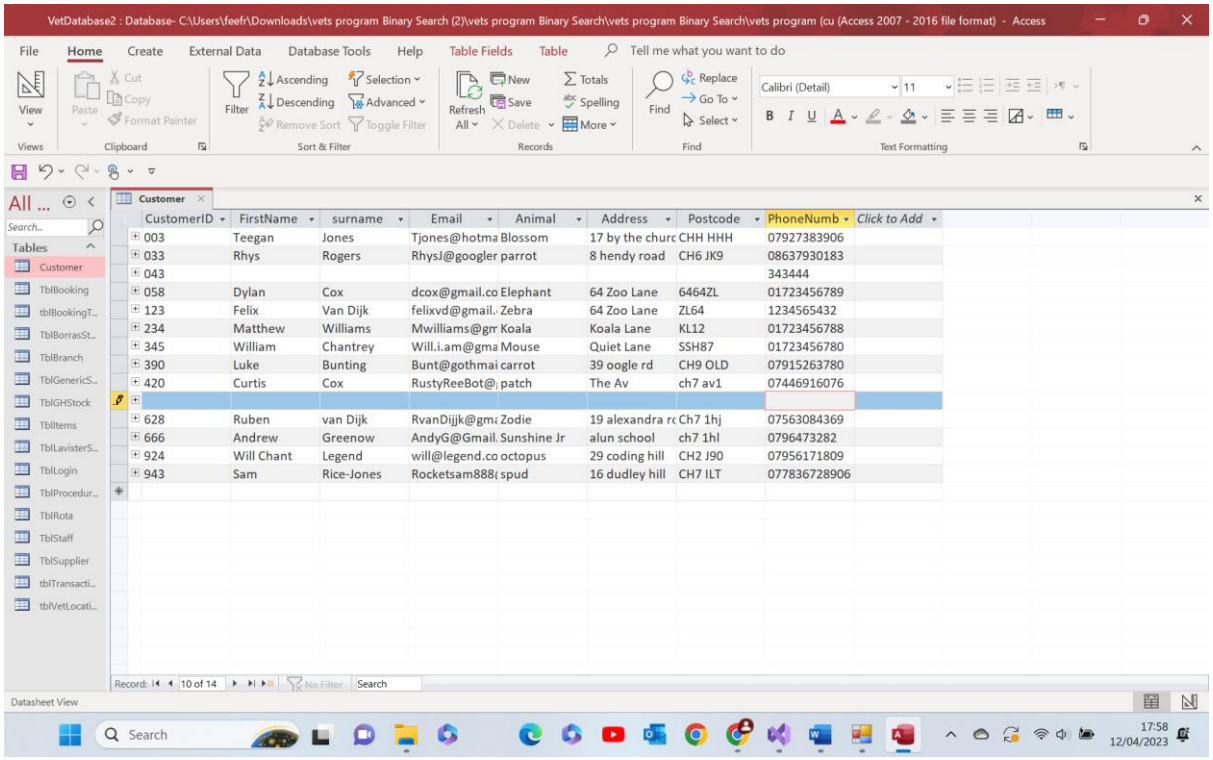
Test 4.5 comments- as expected before removing the record a message box appears ensuring that is what you want to do. If the close button is selected then the record does not delete. If the ok button is pressed the record is removed.

Close pressed-



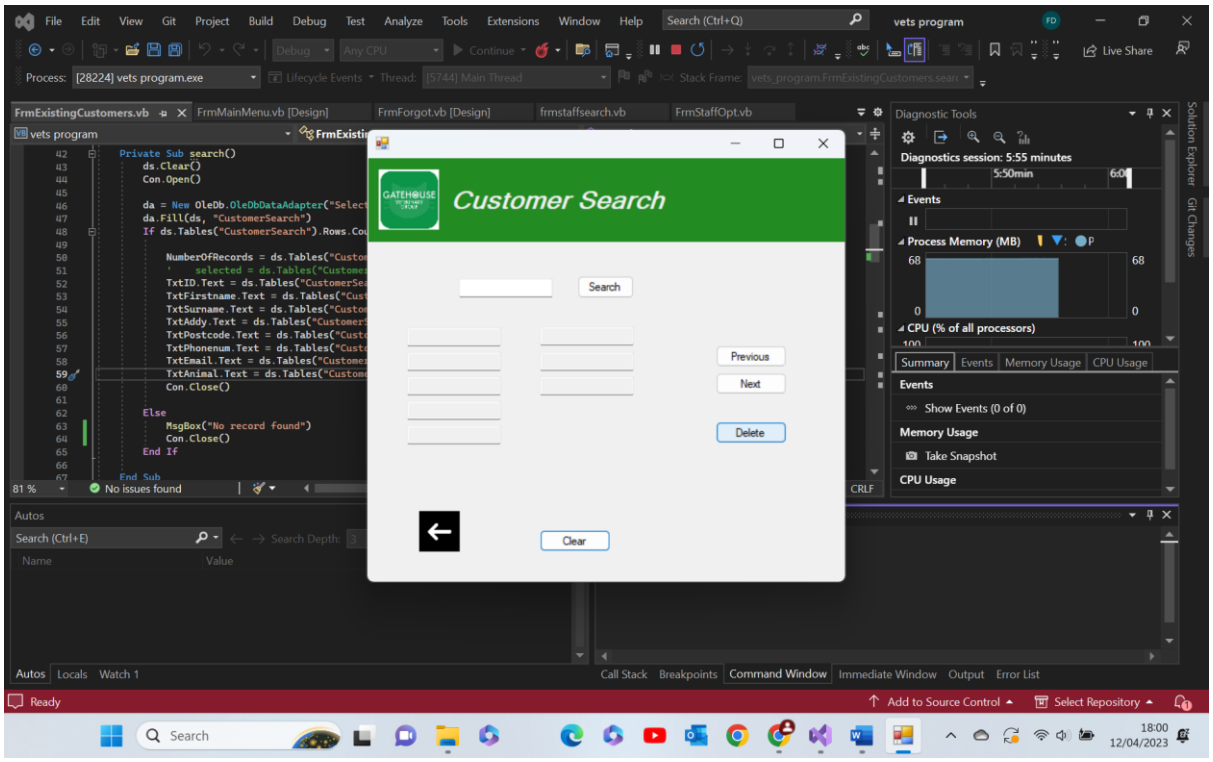
The above is the result of the user changing their mind

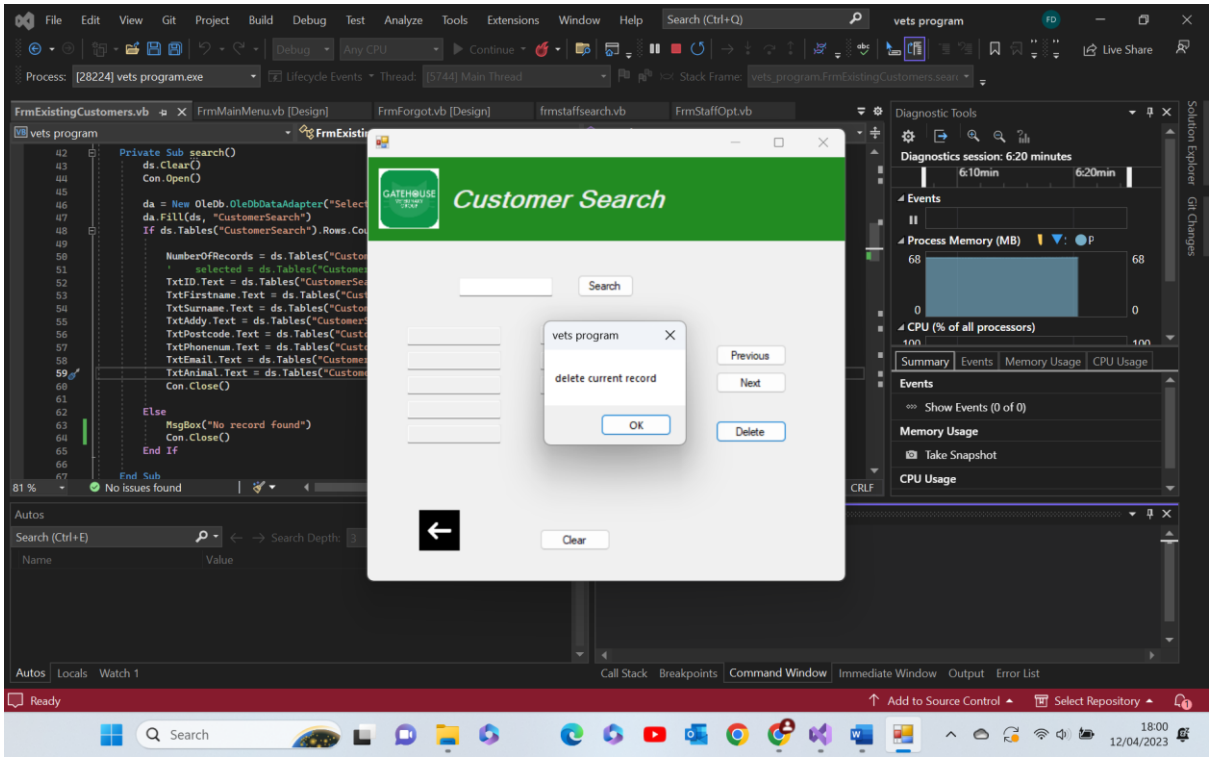
‘ok’ pressed-



The above shows the result of the user deciding they want to delete the record. Note the lack of a ‘Luke Unsworth’ record.

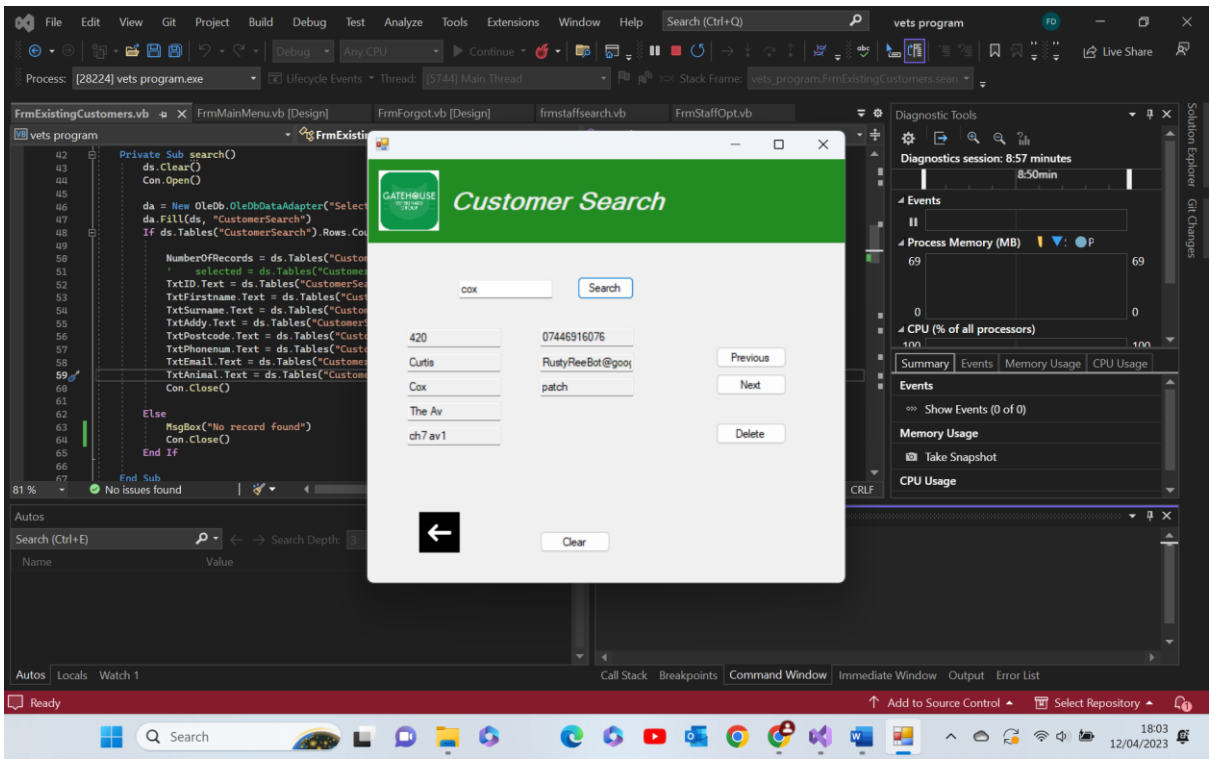
4.6-

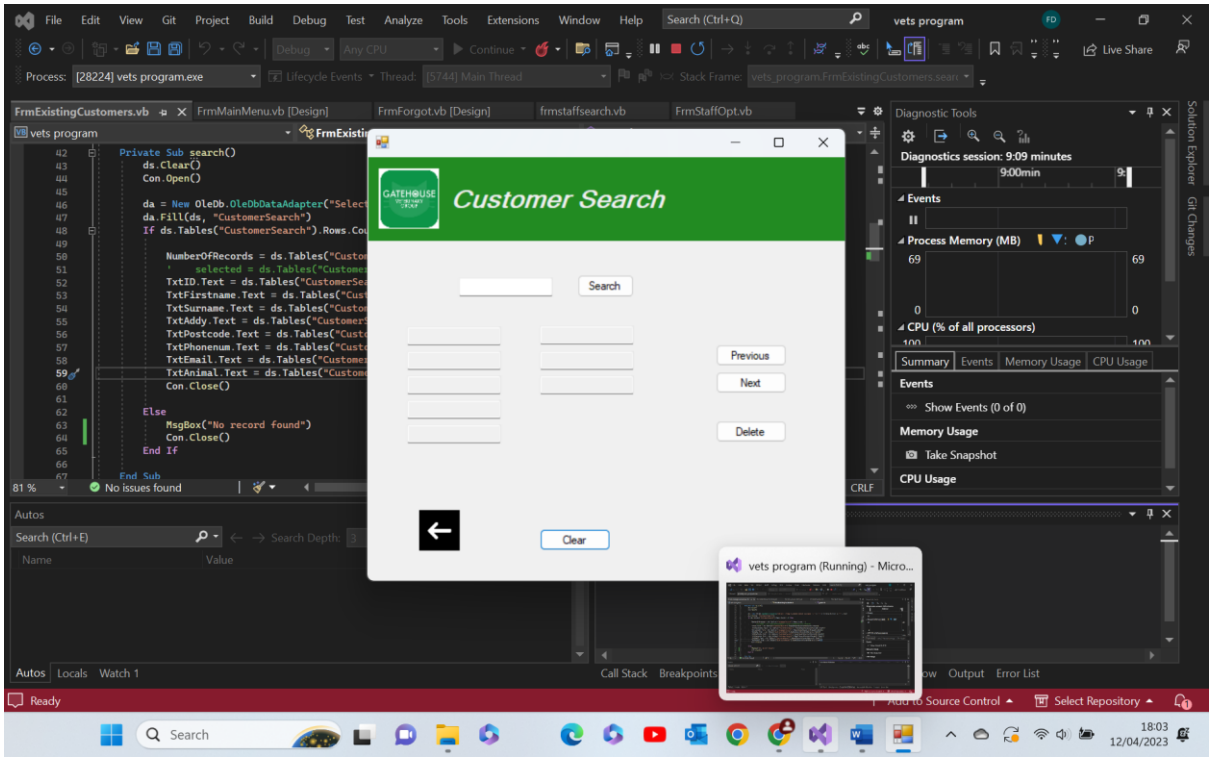




Test 4.6 comments- the program has failed to recognise the lack of data in the text boxes and has still attempted to delete something. I am not sure what it is trying to delete. I imagine a fix would be an additional 'if' function relating to if the text boxes are blank or = ""

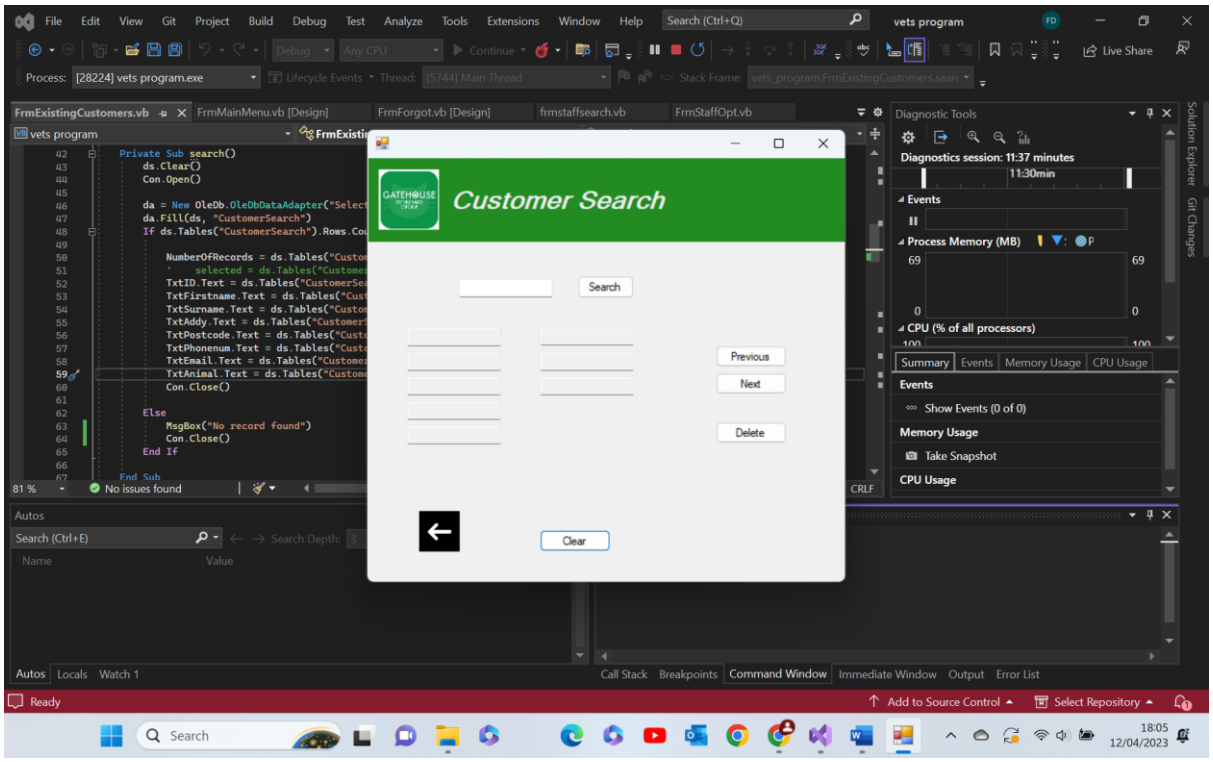
4.7-

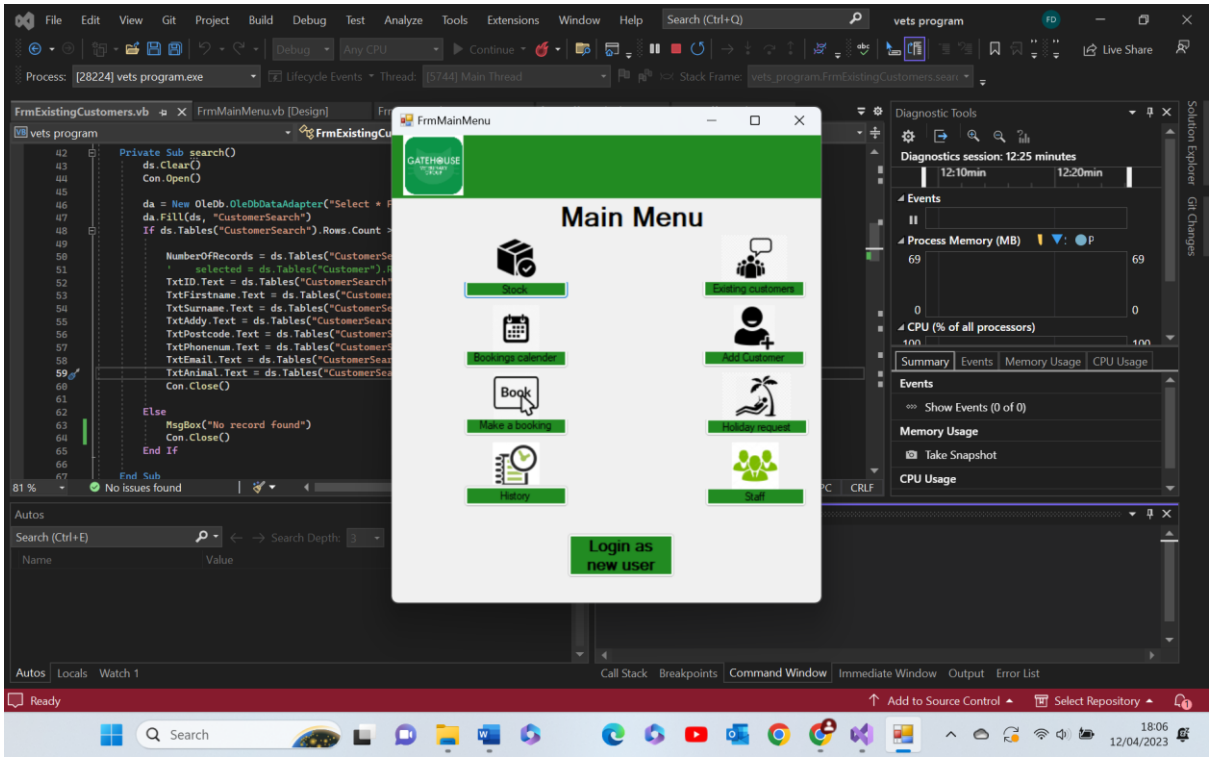




Test 4.7- above you can see the result of using the clear button. All text boxes are empty as they are set to “”. Pass

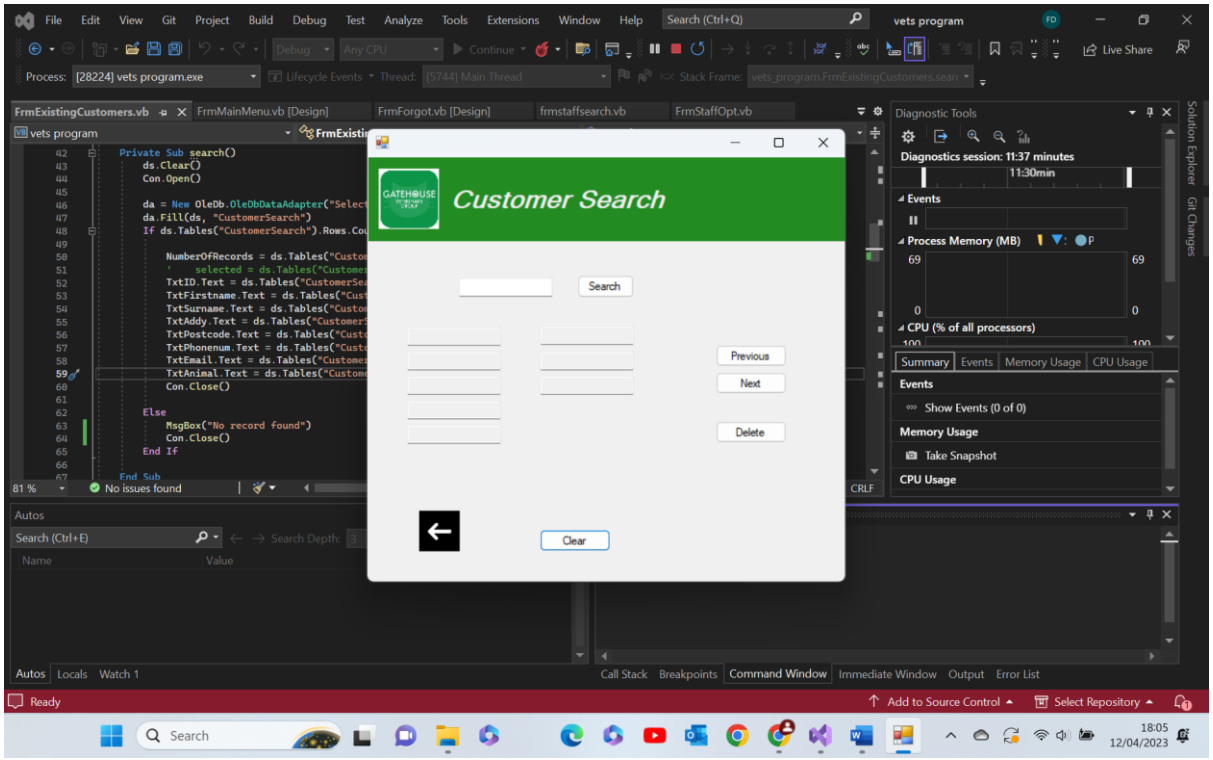
4.8-

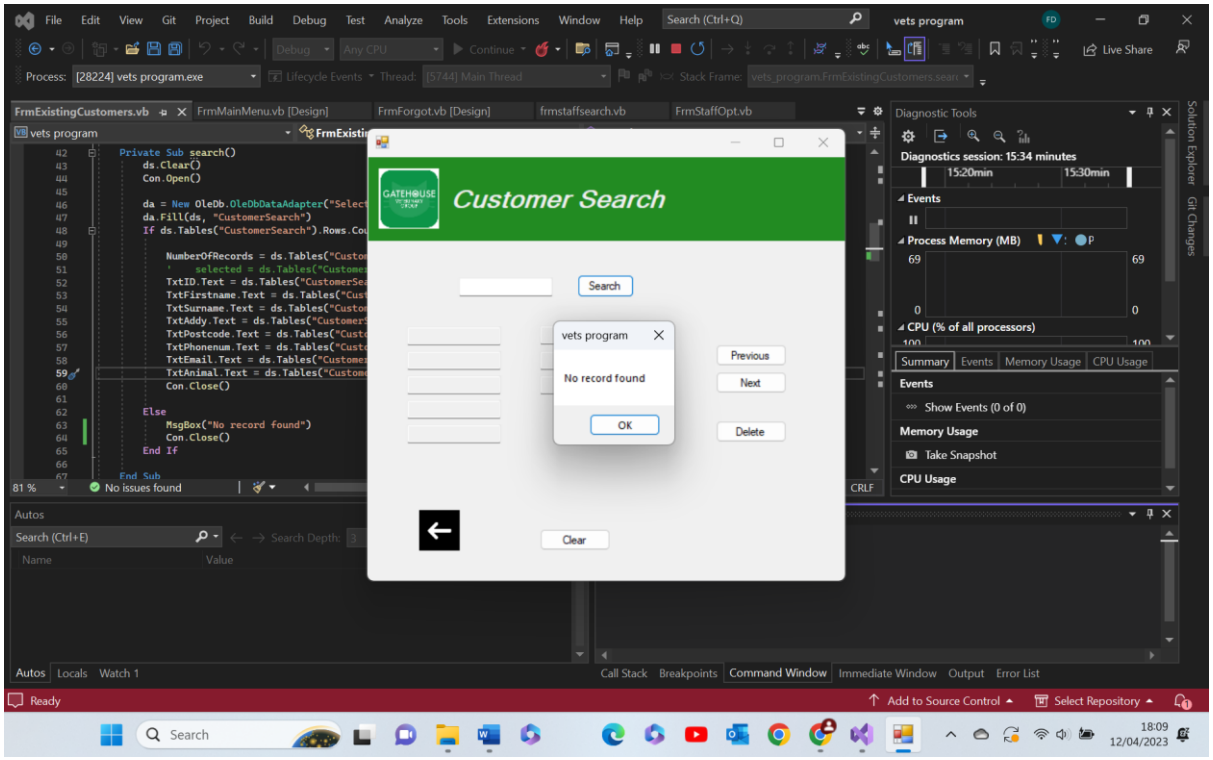




Test 4.8 comments- as expected the form is hidden and the main menu form opens. Pass

4.9-





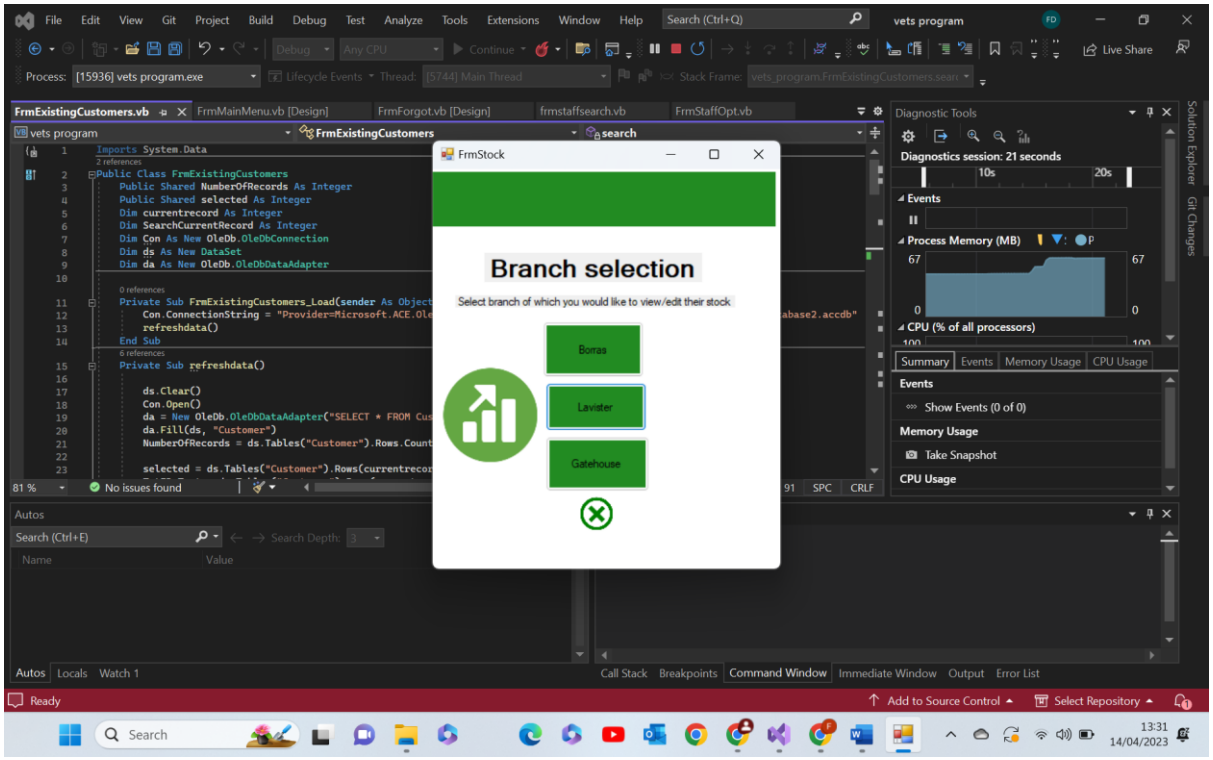
Test 4.9- when the user searches for an empty text box the program realises that the text box is empty and so there will be no correlating records in the database so outputs an appropriate message, however it is not the message I expected. Mayne in future repair this to display its own unique text box. Despite not being exactly what was expected the basic function is still here. Pass

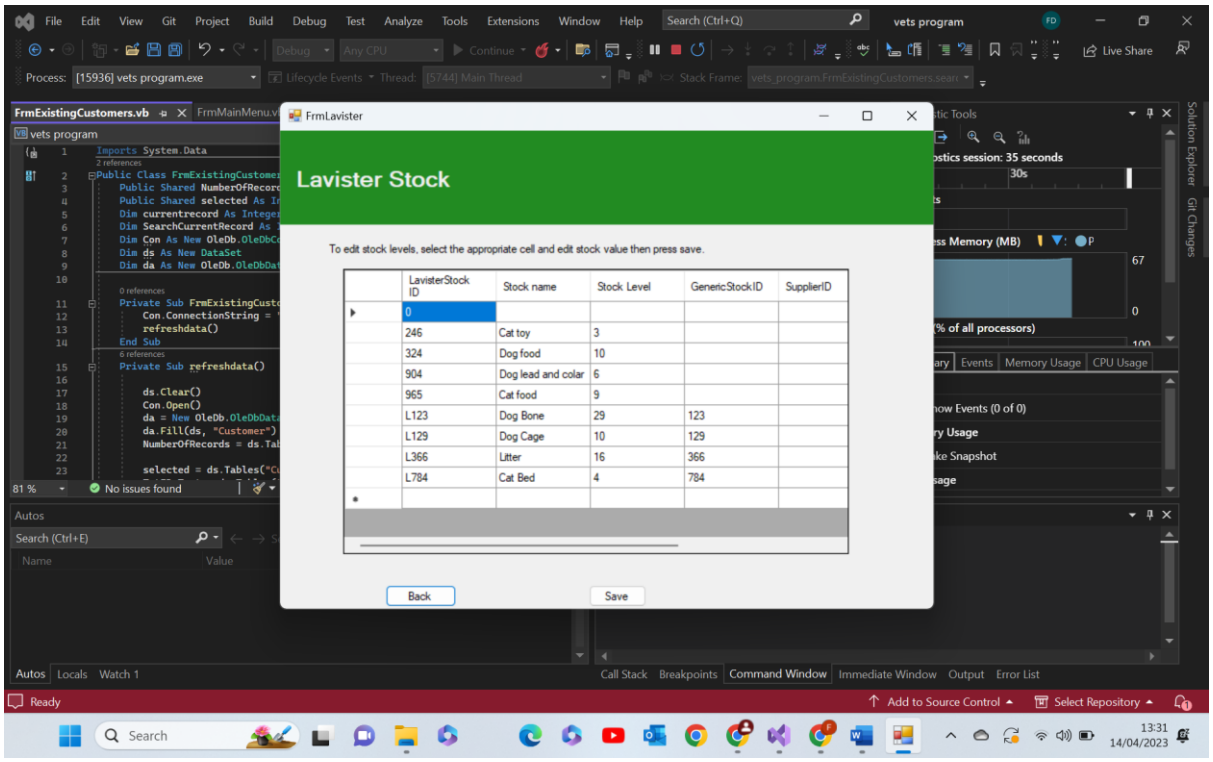
Test group 5- Lavister stock

Test Number	Test data	Actual outcome	Verdict	Comment
1	Lavister stock table In access form. Functional test	When the form was loaded each piece of info was loaded into the correct columns and rows as expected.	Pass	N/A
2	Any value from stock level column Functional valid test	As expected when a cell was selected the user was able to edit the data integer value inside this cell.	Pass	N/A
3	Functional test using valid data, changed the value of any value in stock level column	As expected the data was edited and a text box appeared confirming this	Pass	N/A

4	**Functional test Uses valid data same as test 3**	**As expected, not only was the data changed in the DGV but it was written into the appropriate places in the access database. This means that when the form is closed and re-opened the data most recently saved was still there.**	**Pass**	**N/A**
5	**Functional test**	**As expected the stock option form was selected**	**Pass**	**N/A**
6	**Invalid Negative integer Specifically '-4'**	**As expected the program recognised the negative value as invalid and output an appropriate message box warning the user of the issue**	**Pass**	**N/A**
7	**Invalid data Non integer Specifically '0.4'**	**As expected the program recognised the non-integer value as invalid and output an appropriate message box warning the user of the issue**	**Pass**	**N/A**
8	**Extreme test data type Extremely large intger, unrealistic Specifically '1000'**	**As expected the program recognised the large value as invalid and output an appropriate message box warning the user of the issue**	**Pass**	**N/A**

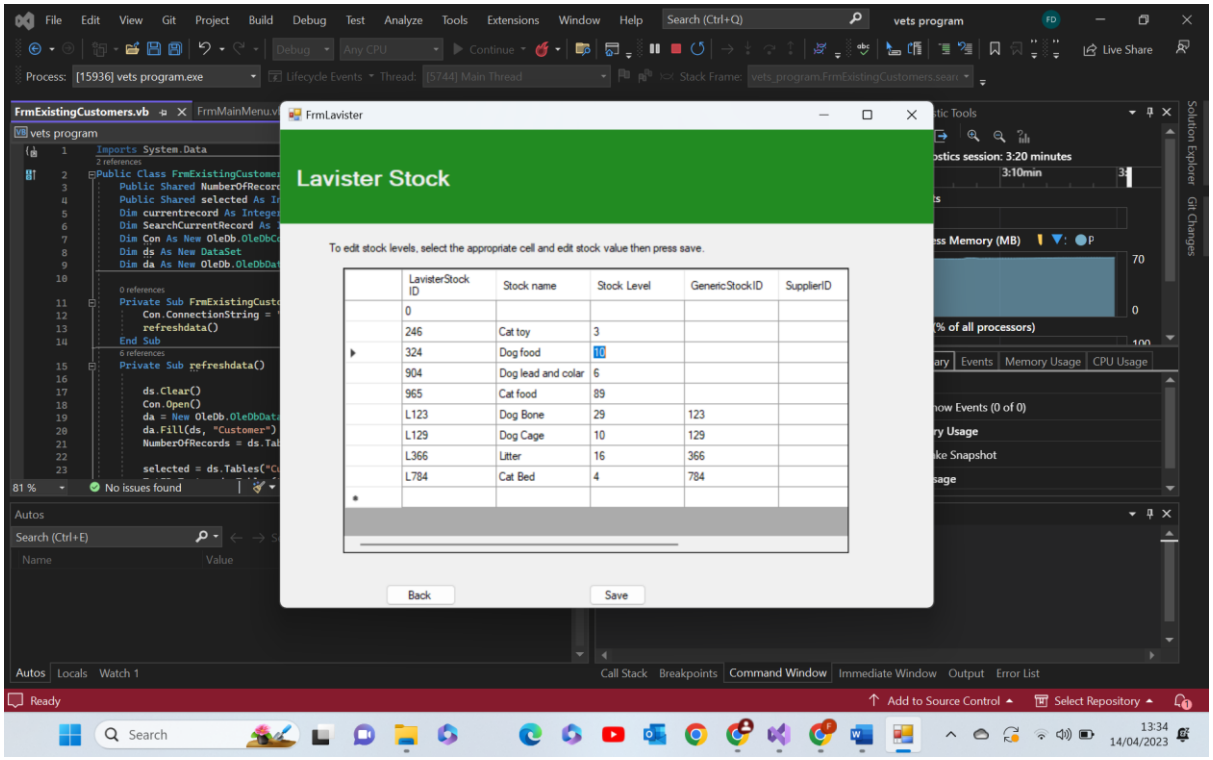
5.1-

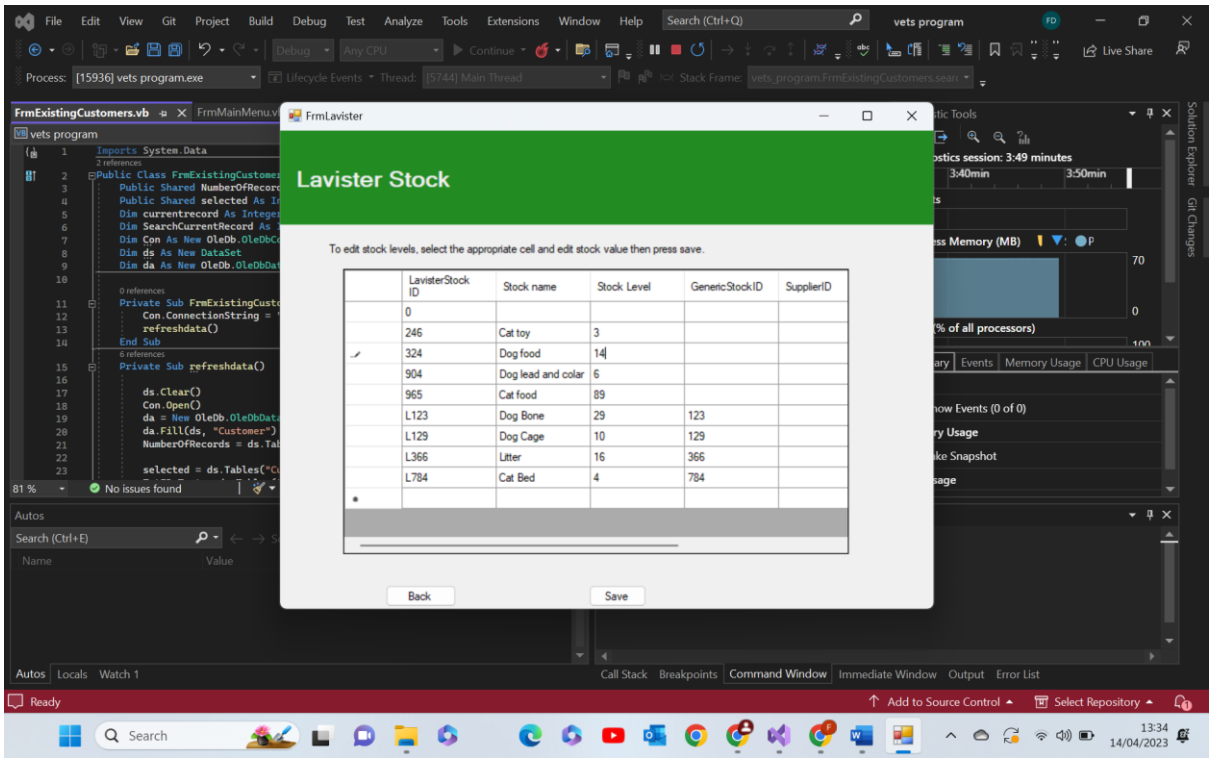




Test 5.1 comments- as we can see above loading into form lavister from form stock option calls the private sub form load and loads all necessary values into the DGV. Pass

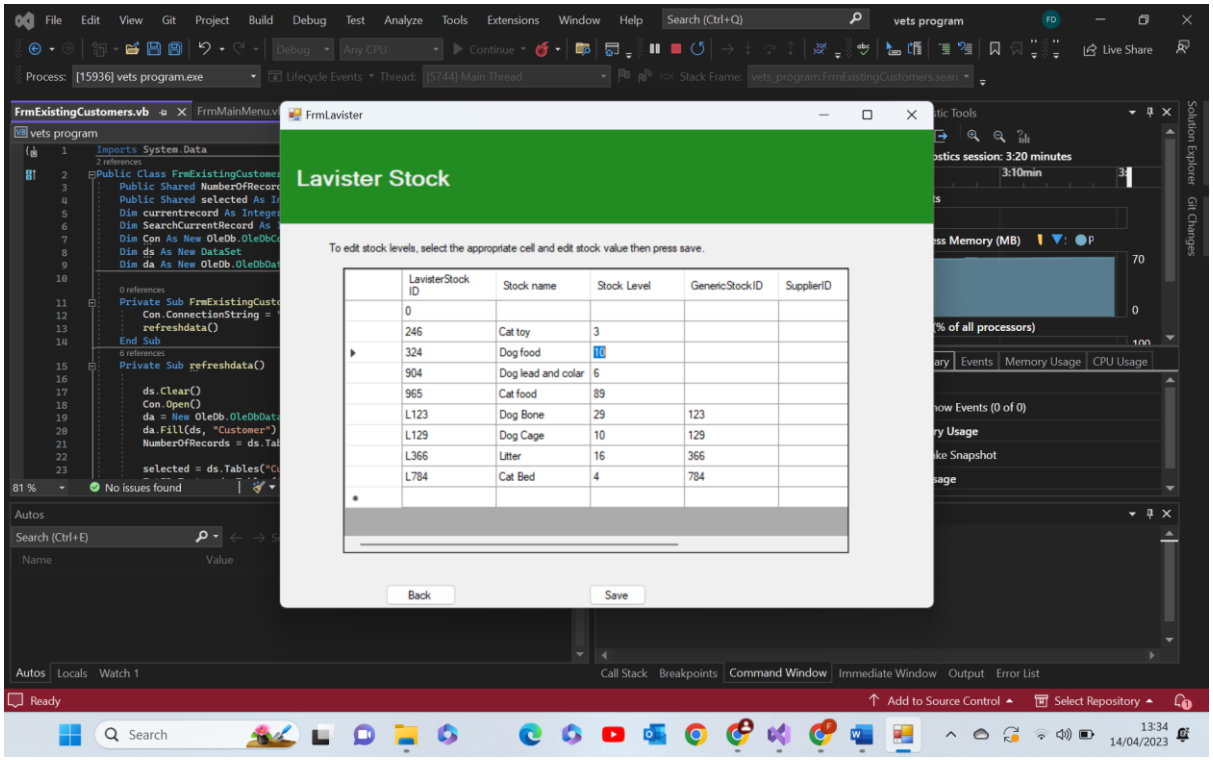
5.2-

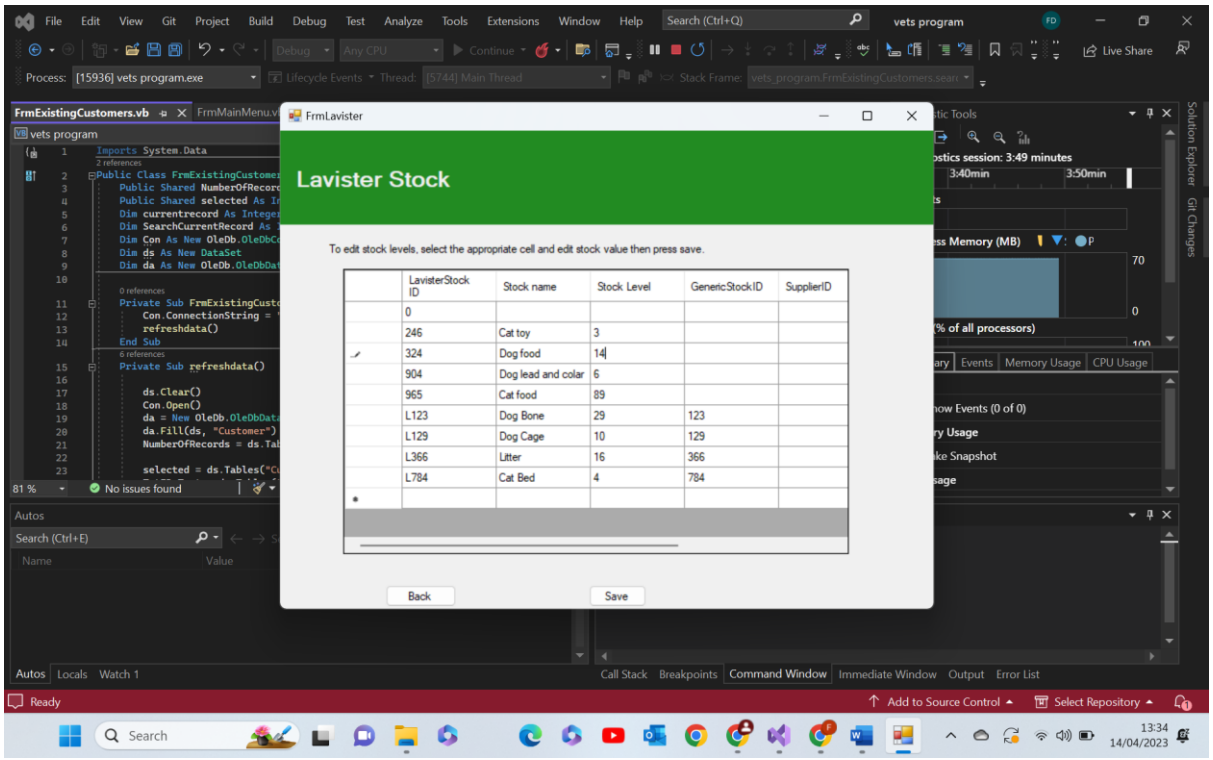


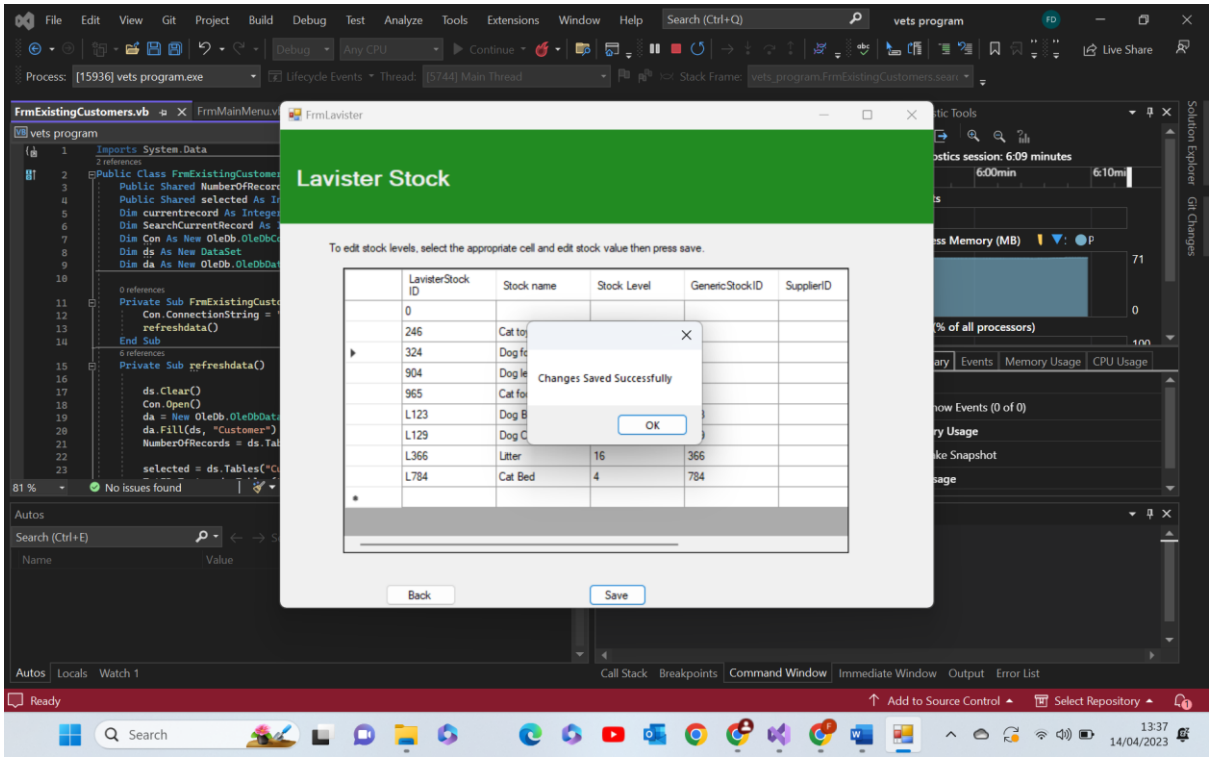


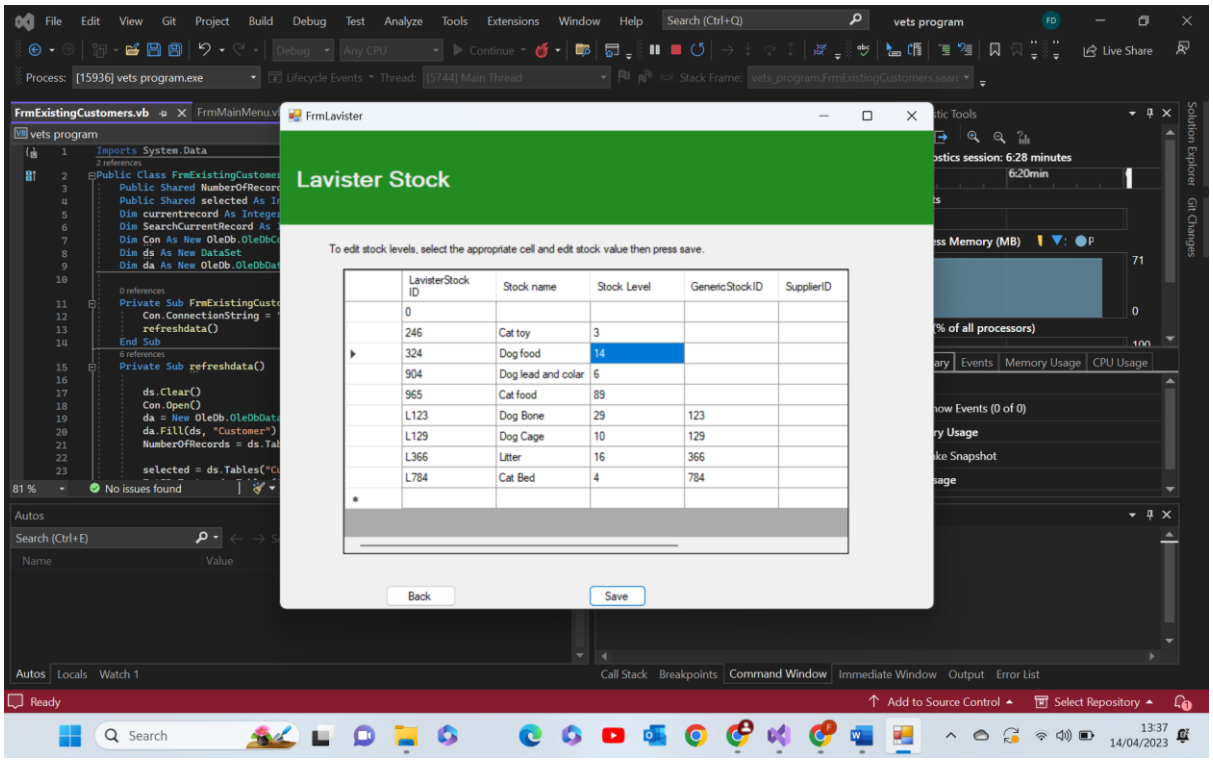
Test 5.2 comments- as we can see above the DataGrid view allows us to select a value and edit it within the form. Pass

5.3-


FrmLavister
Lavister Stock
To edit stock levels, select the appropriate cell and edit stock value then press save.
LavisterStock ID
Stock name
Stock Level
GenericStockID
SupplierID
0
246 Cat toy 3
324 Dog food 10
904 Dog lead and colar 6
965 Cat food 89
L123 Dog Bone 29 123
L129 Dog Cage 10 129
L366 Litter 16 366
L784 Cat Bed 4 784
Back
Save

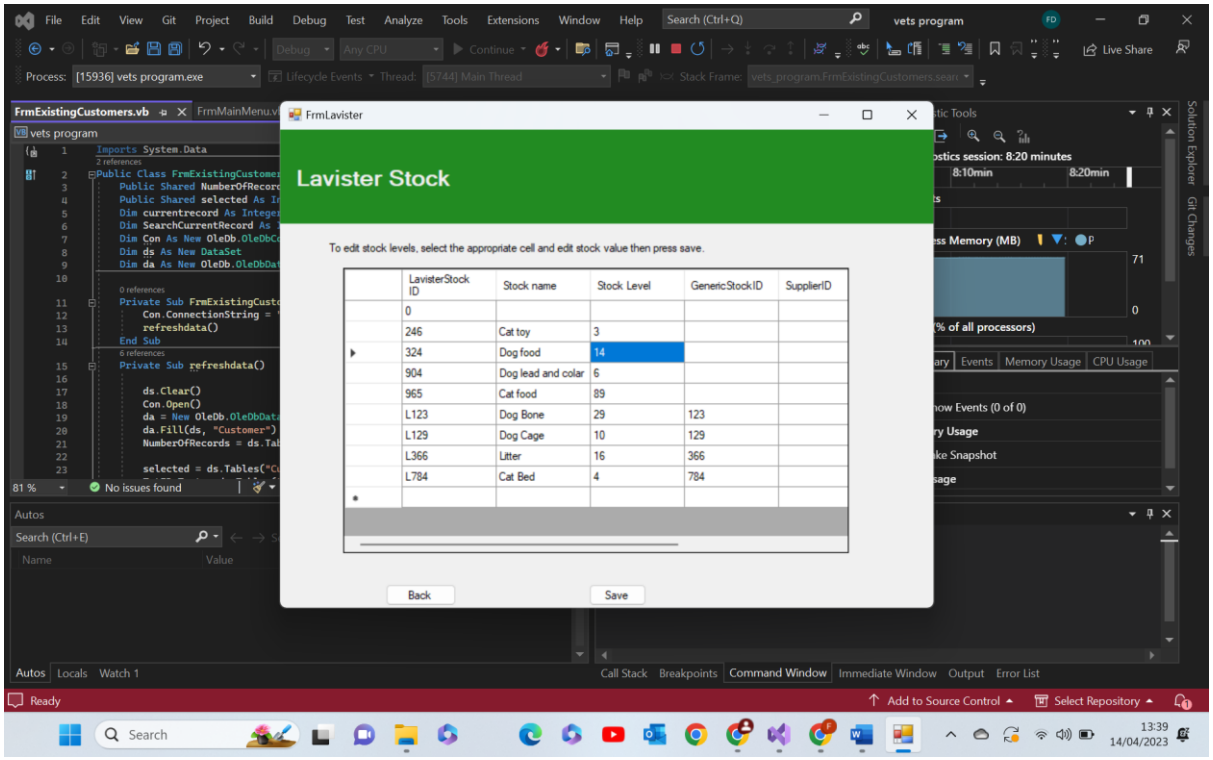

FrmLavister
Lavister Stock
To edit stock levels, select the appropriate cell and edit stock value then press save.
LavisterStock ID
Stock name
Stock Level
GenericStockID
SupplierID
0
246 Cat toy 3
324 Dog food 14
904 Dog lead and colar 6
965 Cat food 89
L123 Dog Bone 29 123
L129 Dog Cage 10 129
L366 Litter 16 366
L784 Cat Bed 4 784
Back
Save



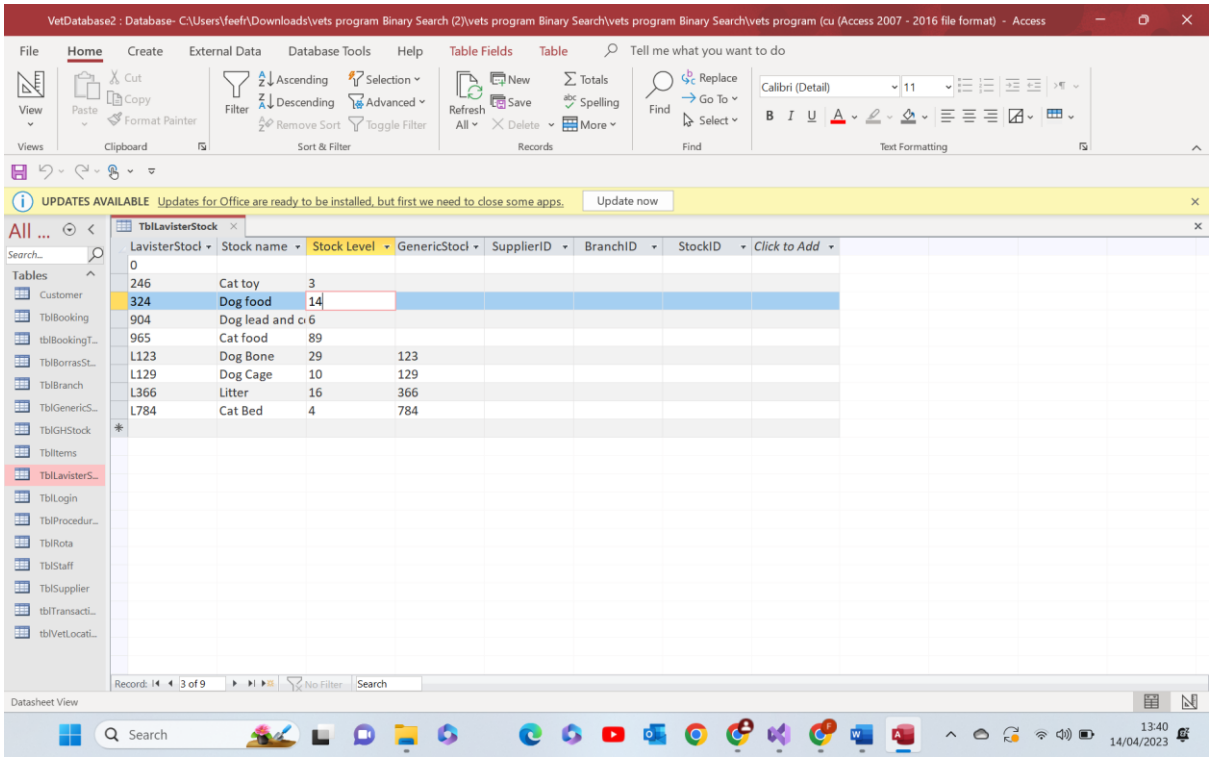


Test 5.3 comments- as we can see above we have used the same data as in test 5.4, the difference being that in this test we have used the save button to write the new value over the old in the database

5.4-

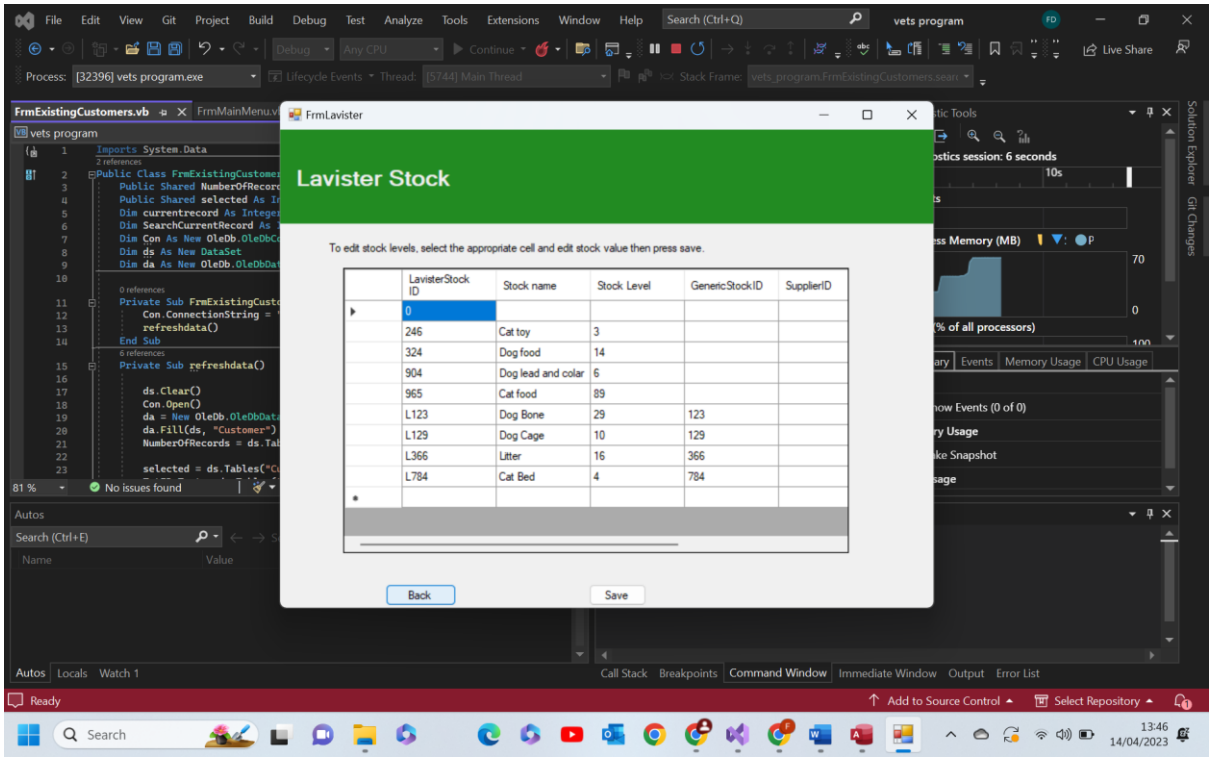


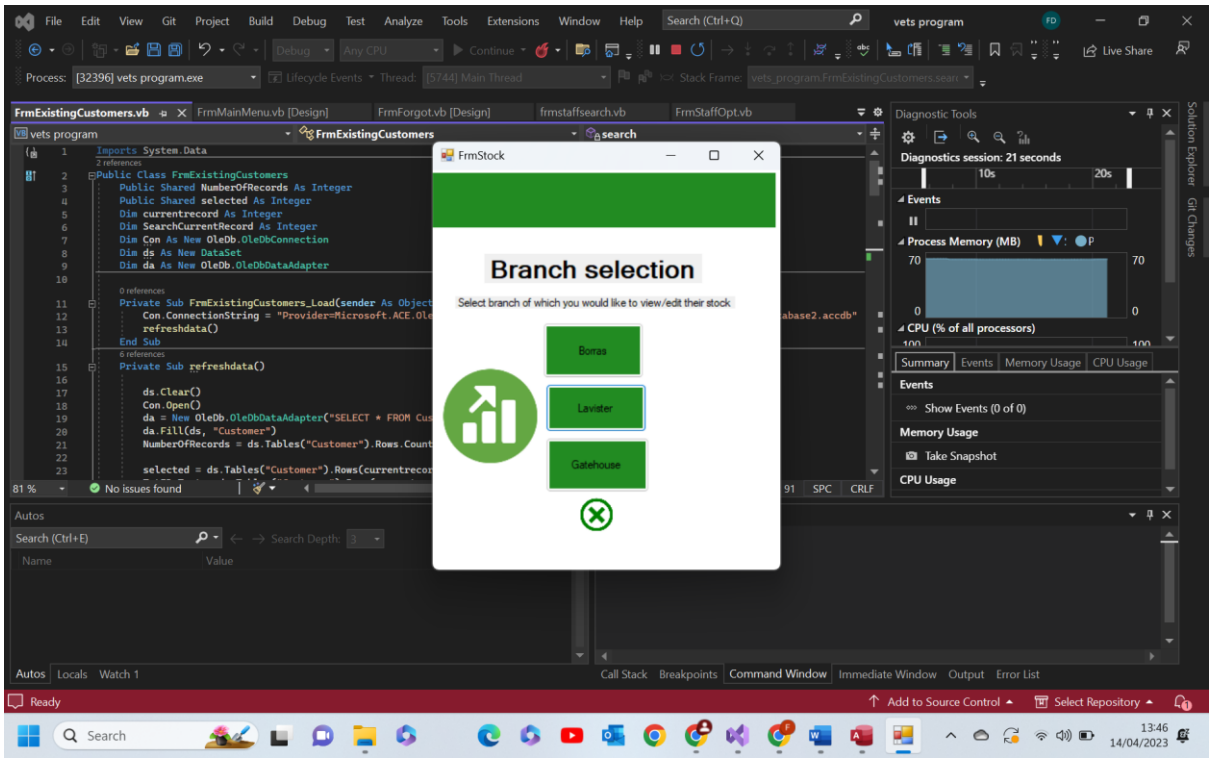
The above screenshot was taken after leaving the form and re opening in an attempt to prove it retains the info



Test 5.4 comments- as we can see above the program has run as expected, the value for stock level of dog food I the database has been altered meaning the program has changed the value from within itself. The purpose of these images is an attempt to prove the data has actually been changed. Pass

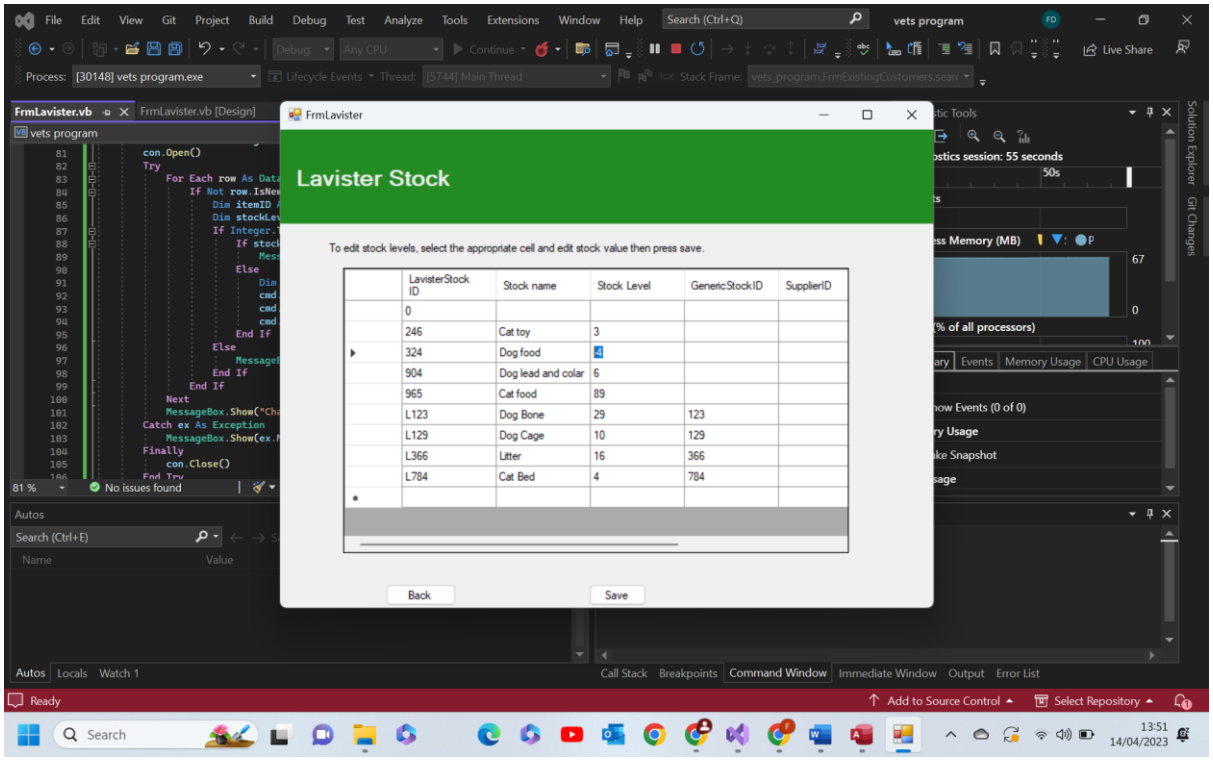
5.5-

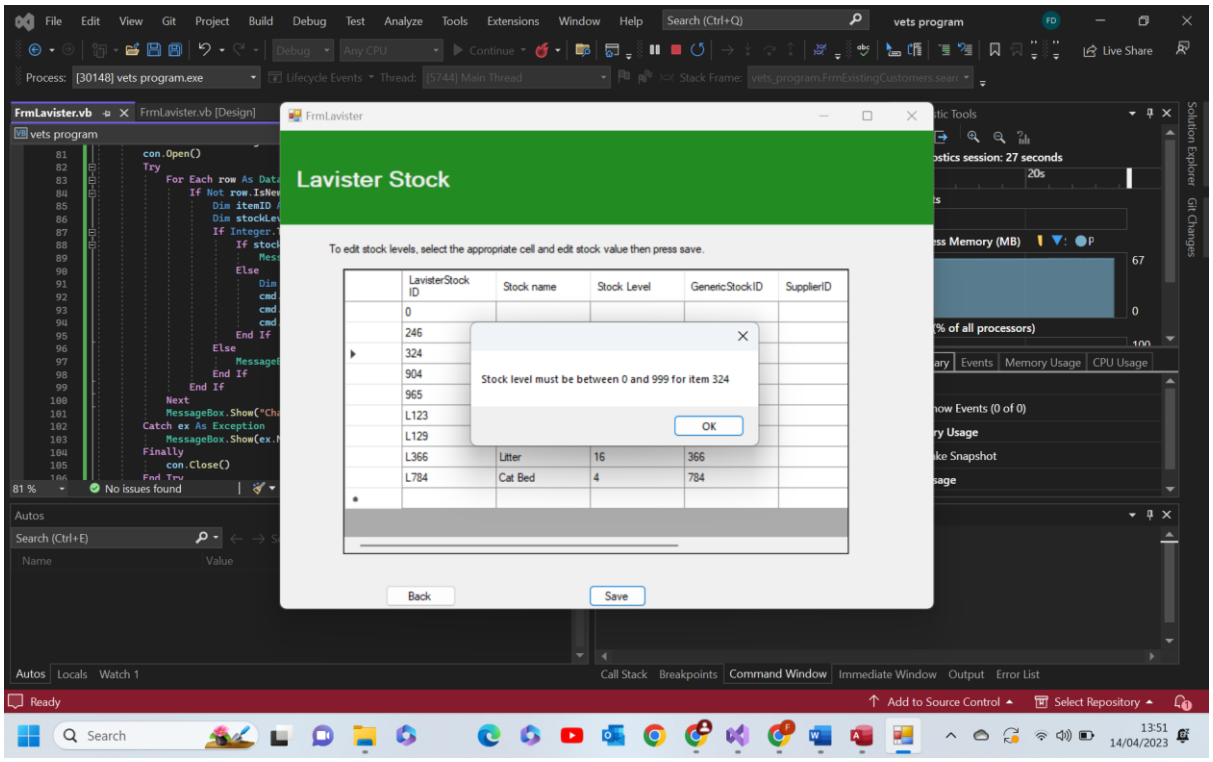




Test 5.5 comments- as shown above this works exactly as expected. Pass

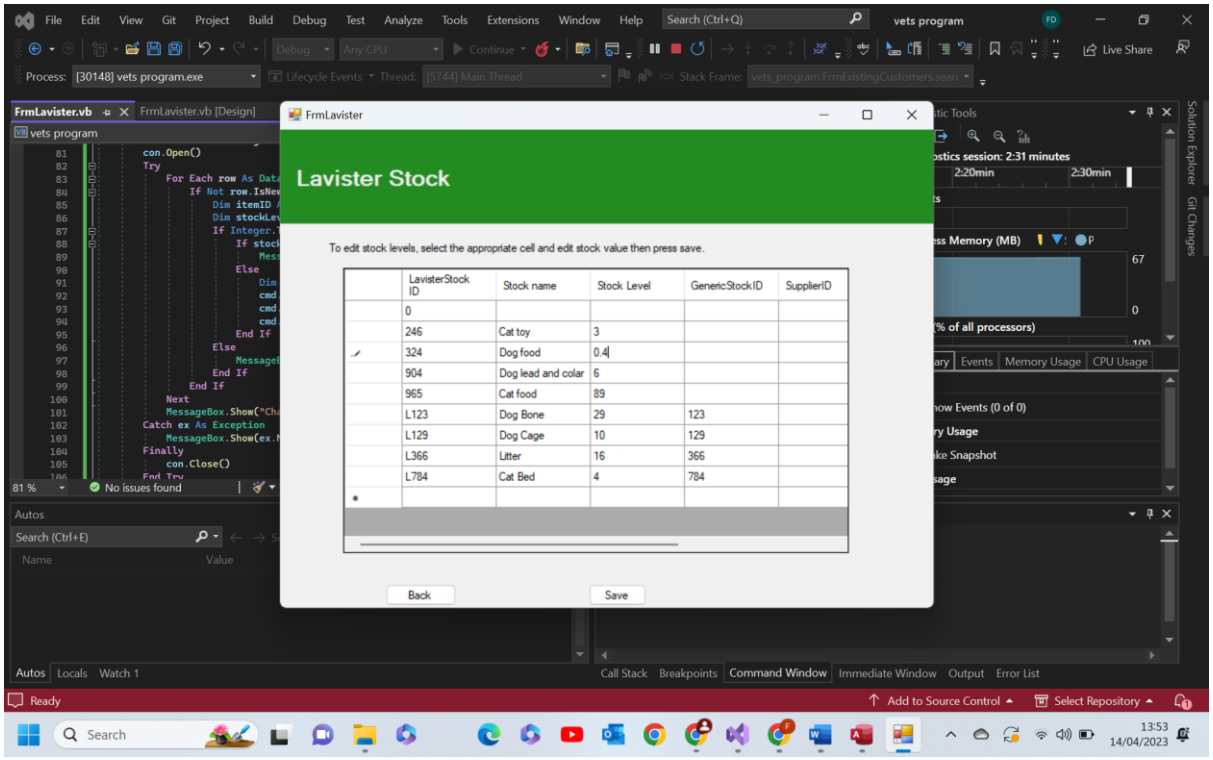
5.6-

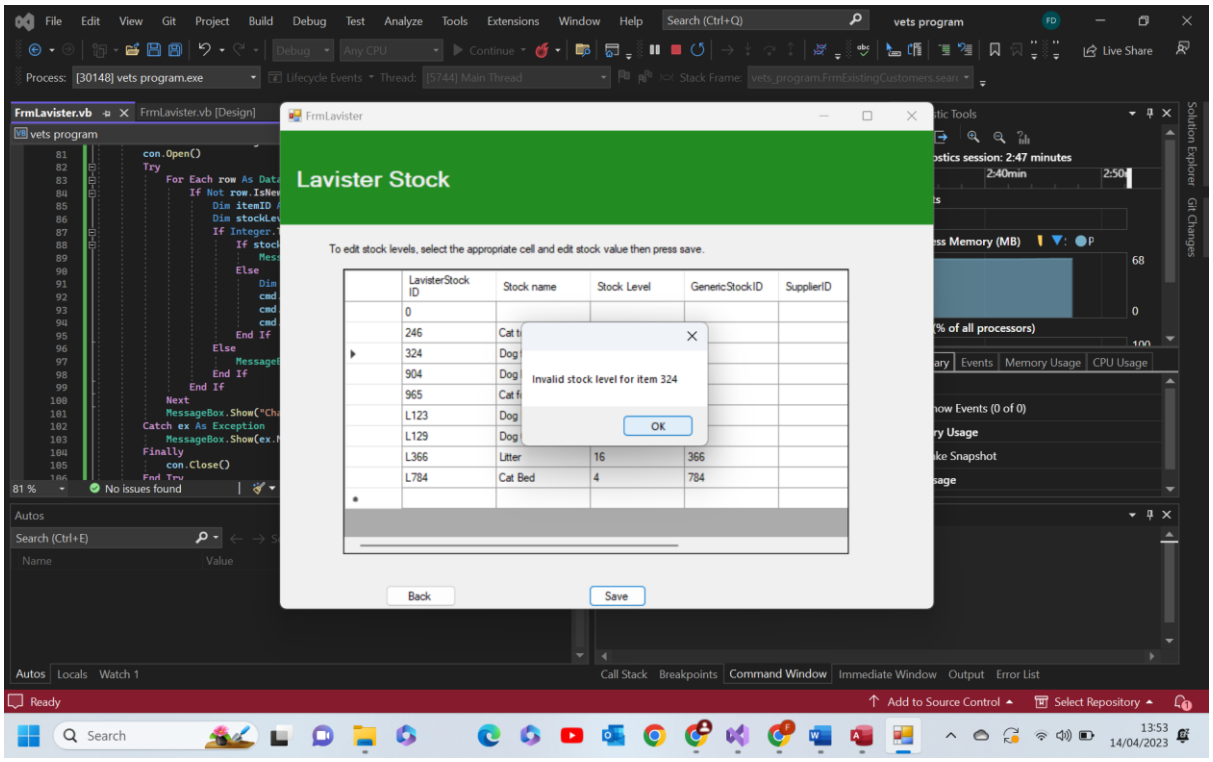




Test 5.6 comments- as shown above when the user attempts to enter a negative value the program displays suitable message box and does not save the invalid entered value. Pass

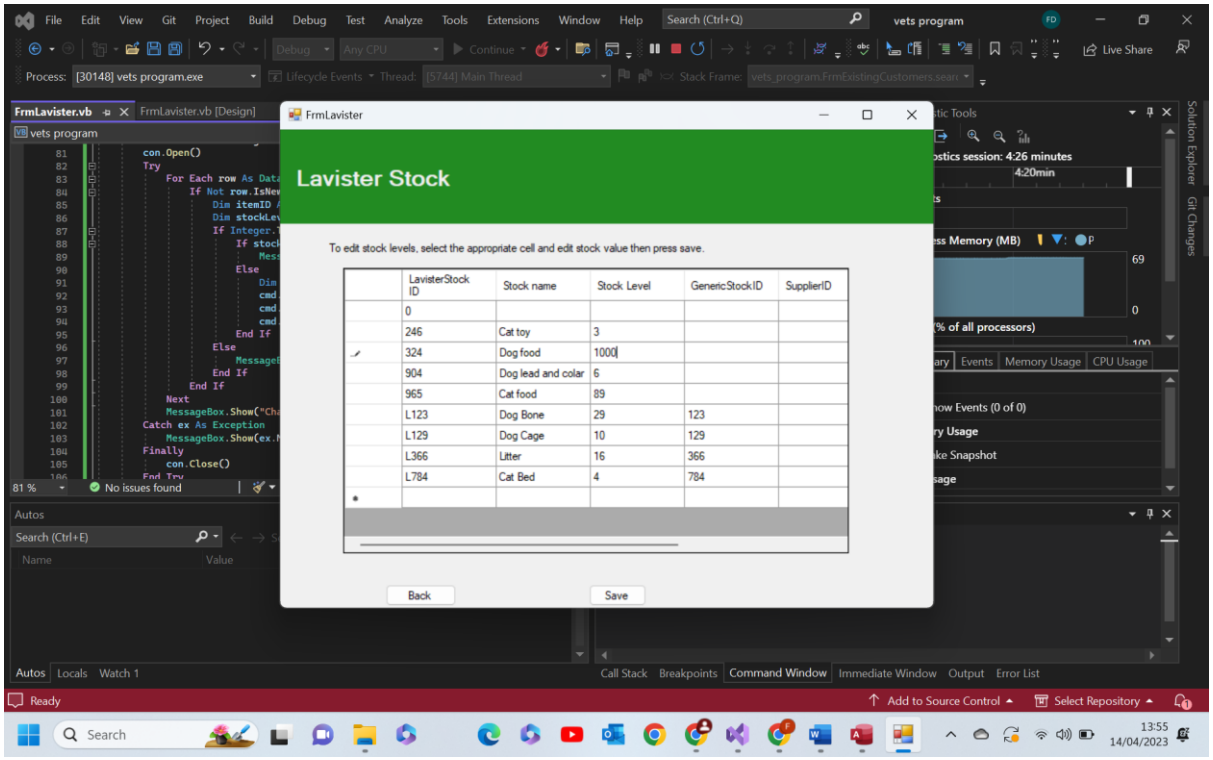
5.7-

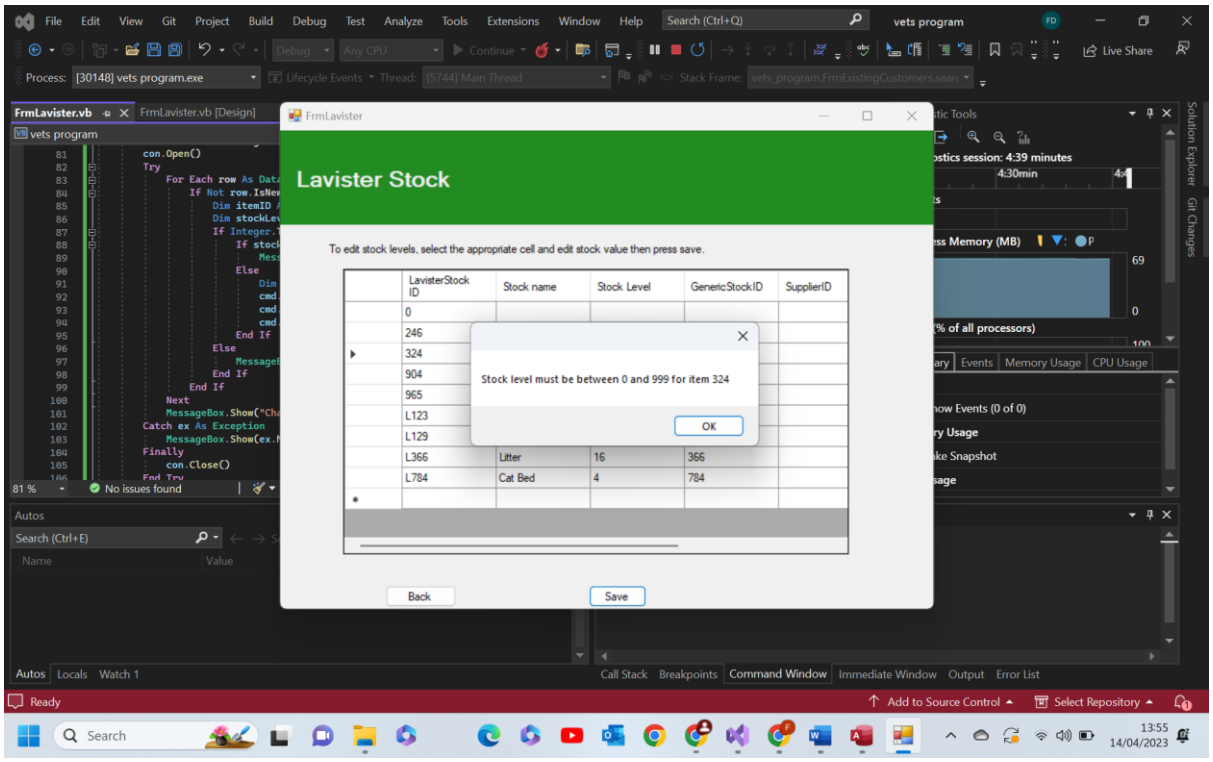




Test 5.7 comments- as shown above when the user attempts to enter a non-integer value the program recognises this as does not allows the program to save the new value. Pass

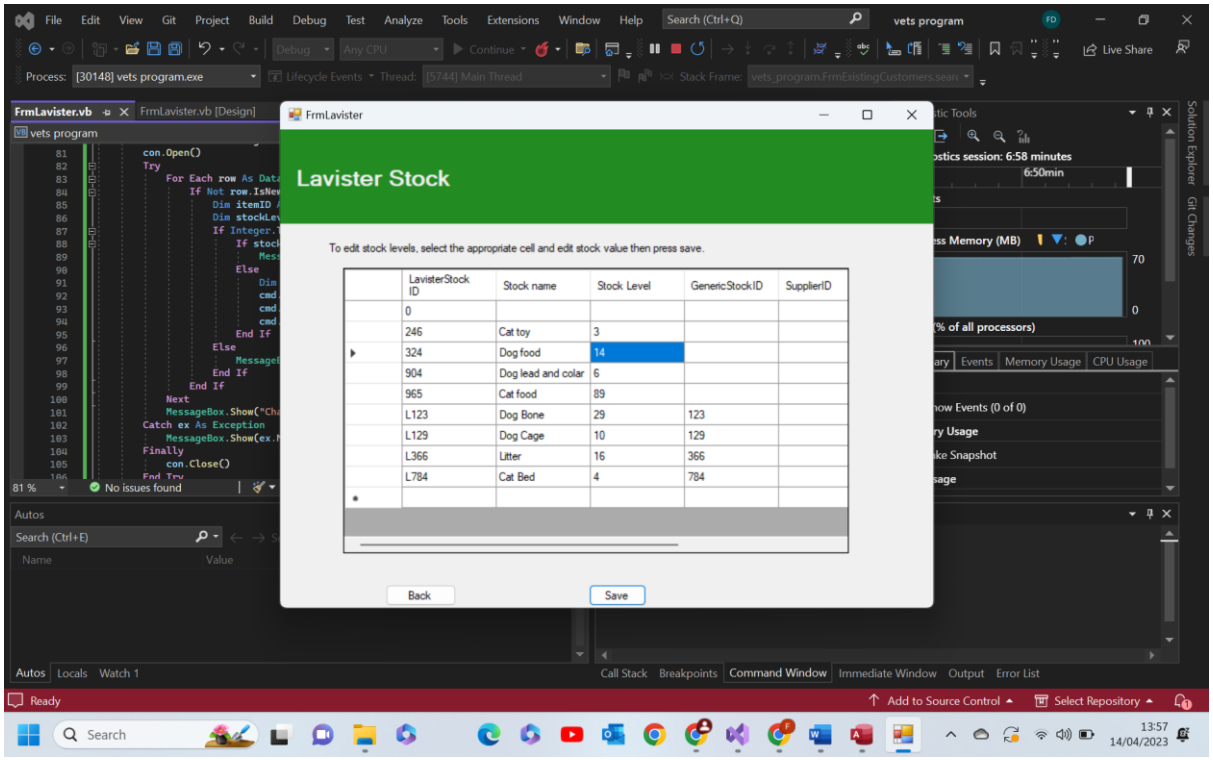
5.8-





Test 5.8 comments- as shown above when a value deemed to be unrealistic in entered, in this case I have set that value as 999, the program recognises this extreme, invalid data and outputs a suitable message box. Pass

Validation tests aftermath-



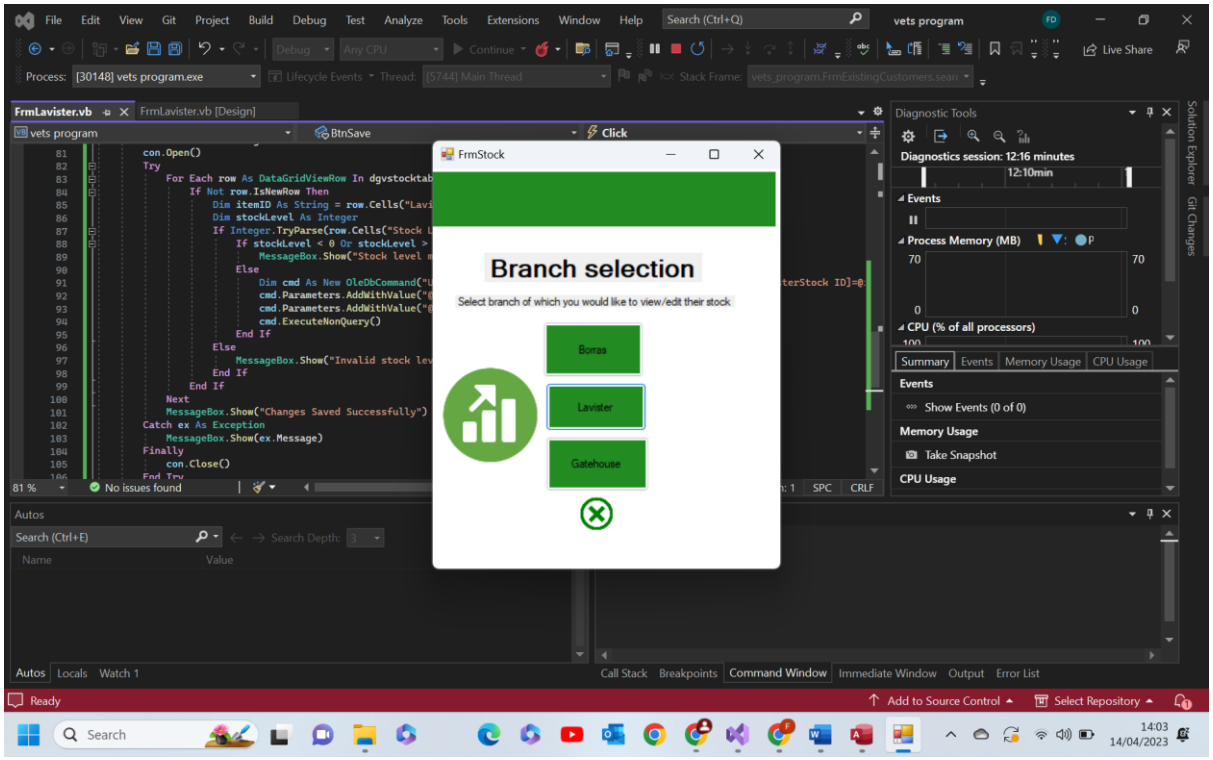
As we can clearly see despite all the invalid and extreme values entered the program has kept its original value of 14, further proof of the validity of the checks.

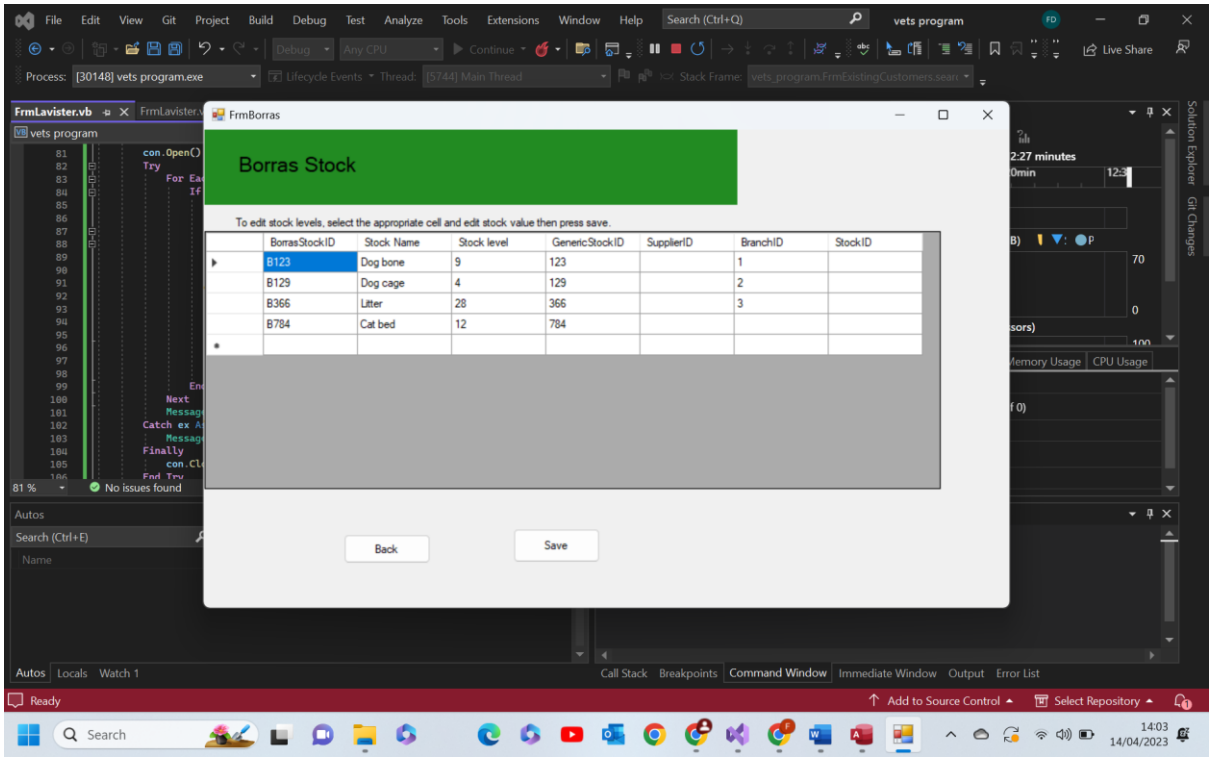
Test group 6- Borras stock edit form:

Test Number	Test data	Actual outcome	Verdict	Comment
1	Lavister stock table In access form. Functional test	When the form was loaded each piece of info was loaded into the correct columns and rows as expected.	Pass	N/A
2	Any value from stock level column Functional valid test	As expected when a cell was selected the user was able to edit the data integer value inside this cell.	Pass	N/A
3	Functional test using valid data, changed the value of any value in stock level column	As expected the data was edited and a text box appeared confirming this	Pass	N/A
4	Functional test Uses valid data same as test 3	As expected, not only was the data changed in the DGV but it was	Pass	N/A

		written into the appropriate places in the access database. This means that when the form is closed and re-opened the data most recently saved was still there.		
5	Functional test	As expected the stock option form was selected	Pass	N/A
6	Invalid Negative integer Specifically '-4'	As expected the program recognised the negative value as invalid and output an appropriate message box warning the user of the issue	Pass	N/A
7	Invalid data Non integer Specifically '0.4'	As expected the program recognised the non-integer value as invalid and output an appropriate message box warning the user of the issue	Pass	N/A
8	Extreme test data type Extremely large intger, unrealistic Specifically '1000'	As expected the program recognised the large value as invalid and output an appropriate message box warning the user of the issue	Pass	N/A

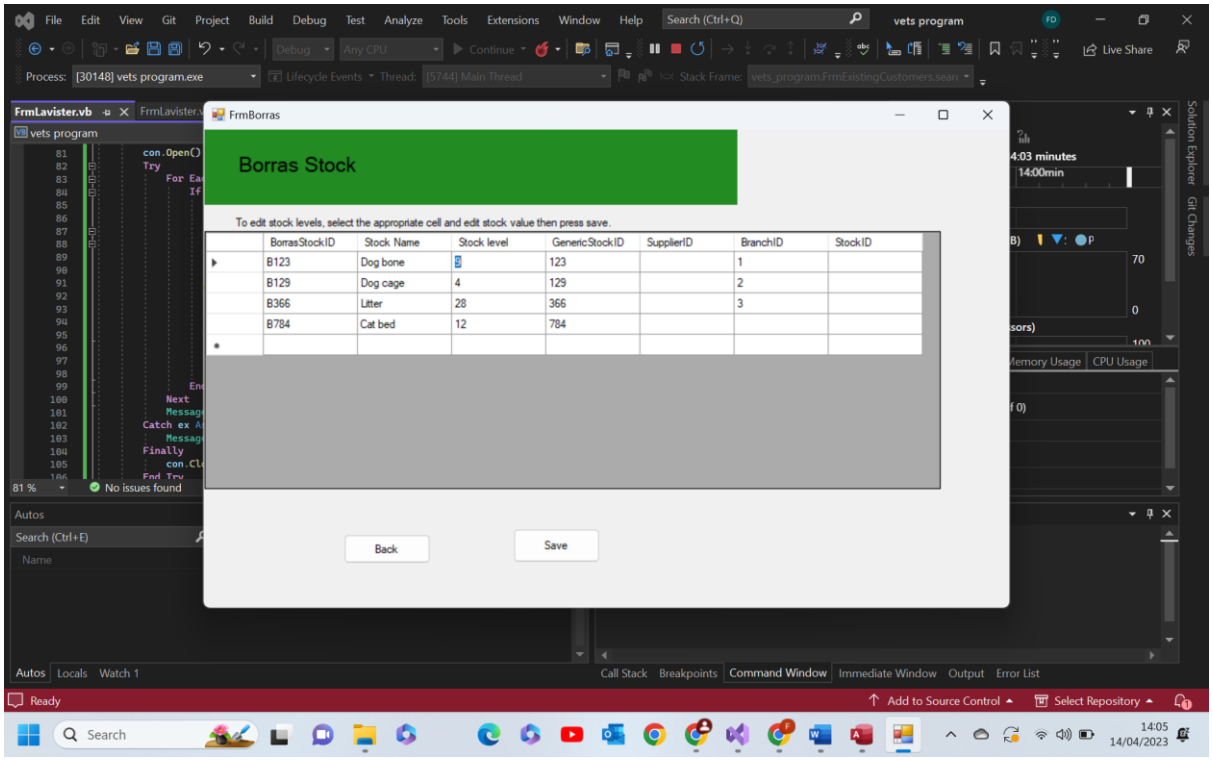
6.1-

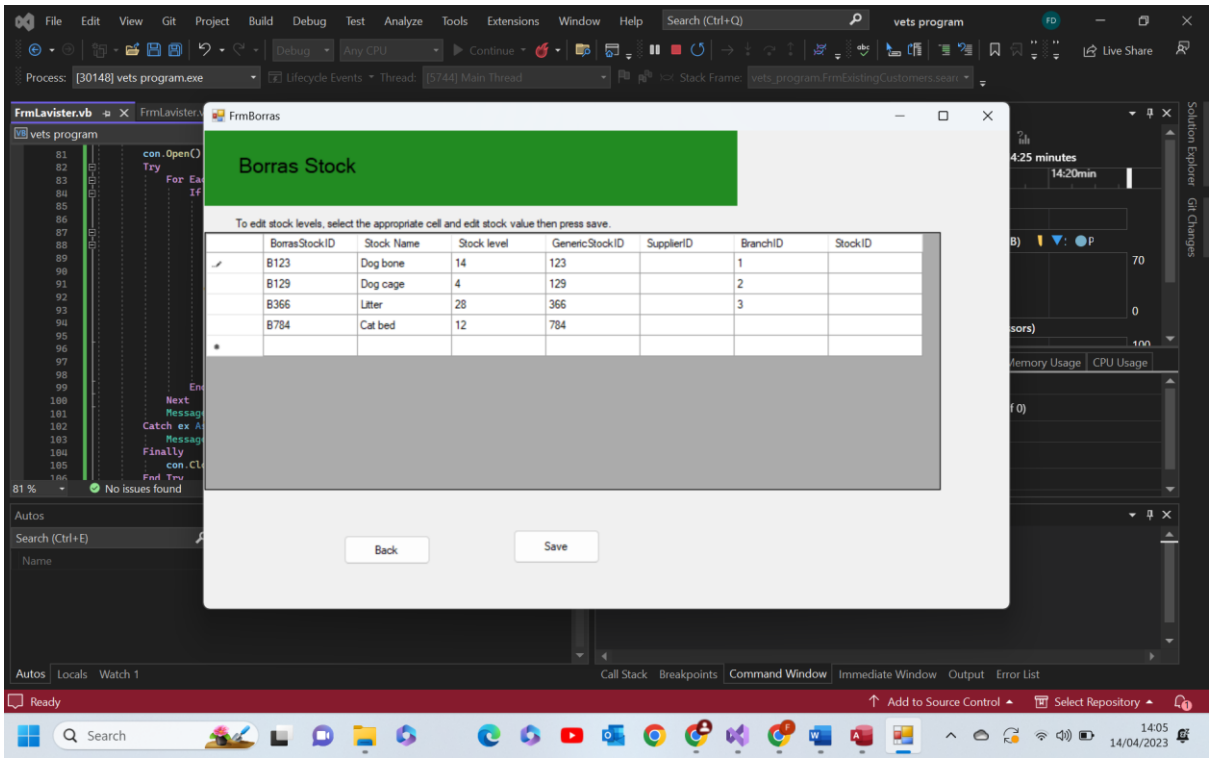




Test 6.1 comments- as is evident above, as expected the data from the borras stock table in the database is loaded into the DGV as soon as the form loads. Pass

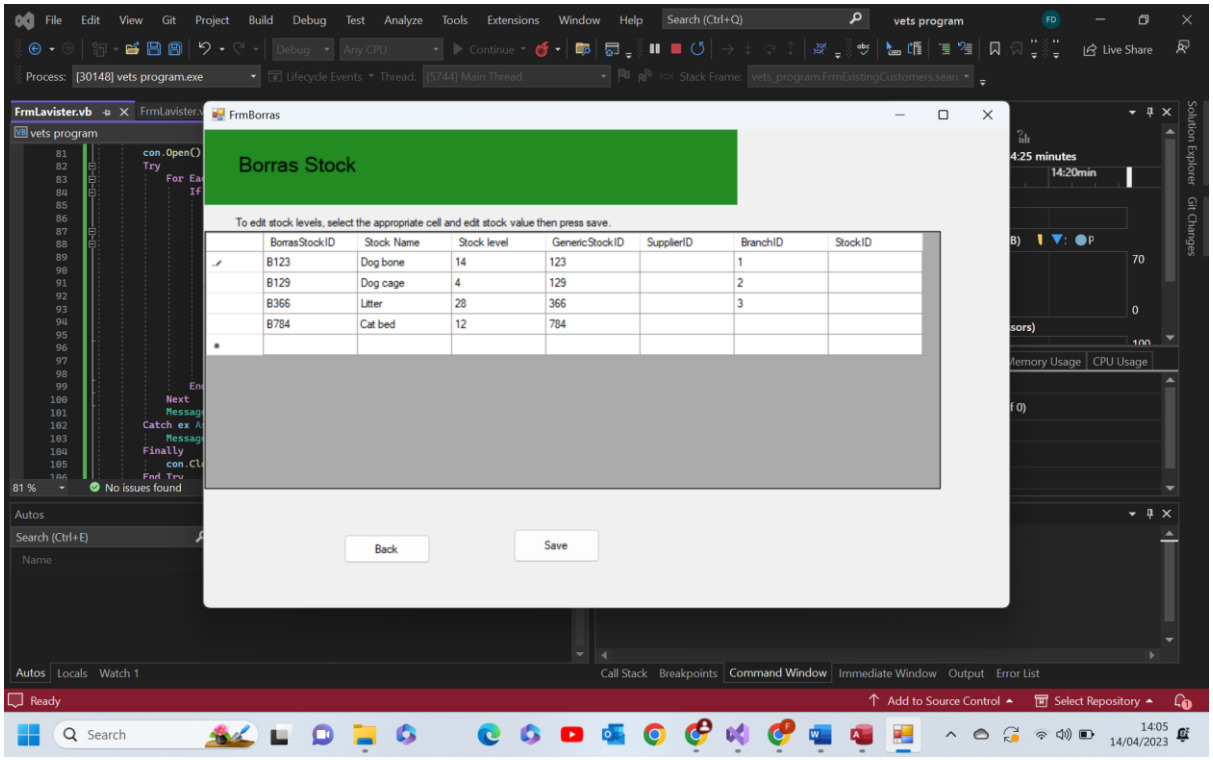
6.2-

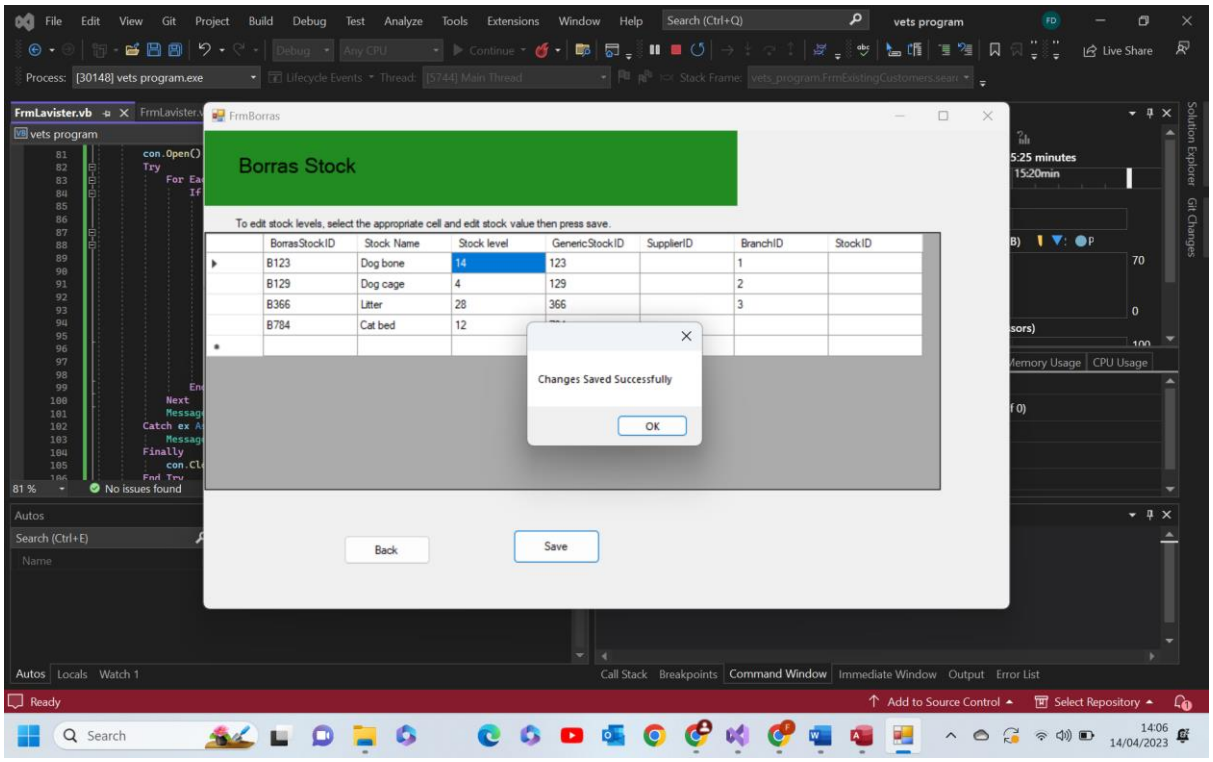




Test 6.2 comments- as is shown above, when the user selects a cell within the stock level column the user is able to edit the value inside of it. Pass

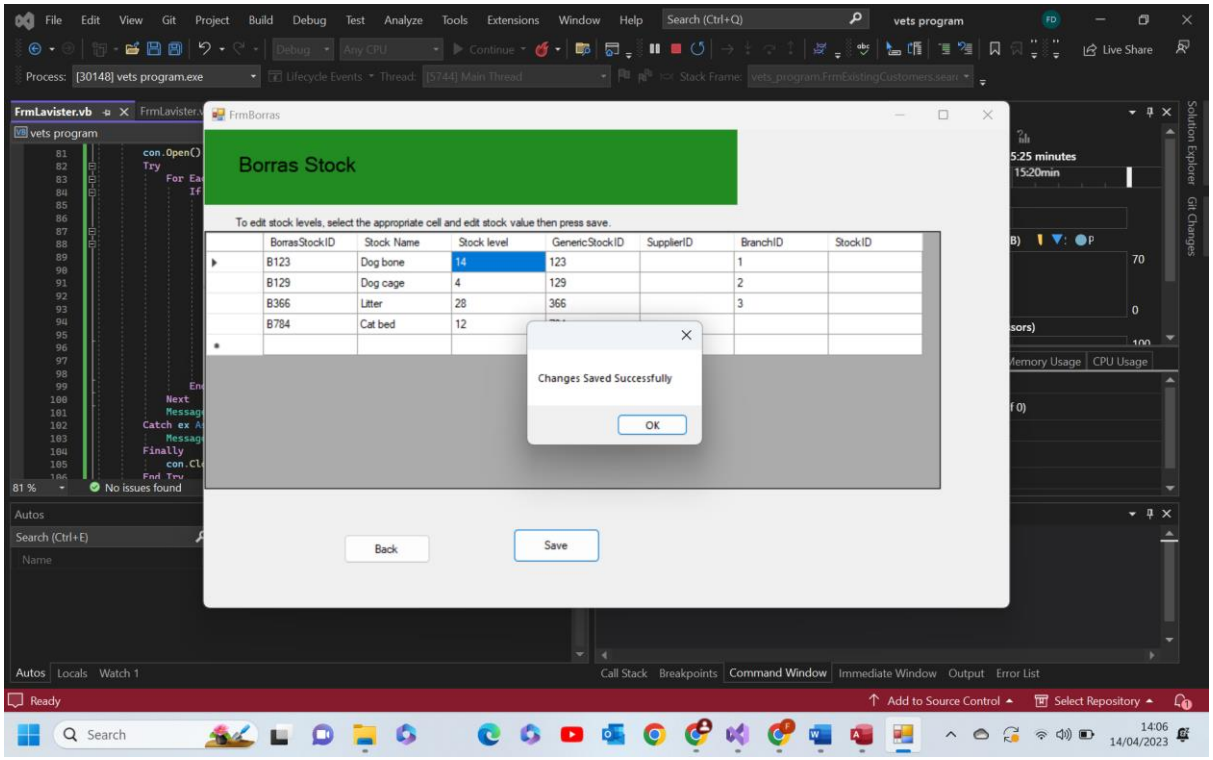
6.3-

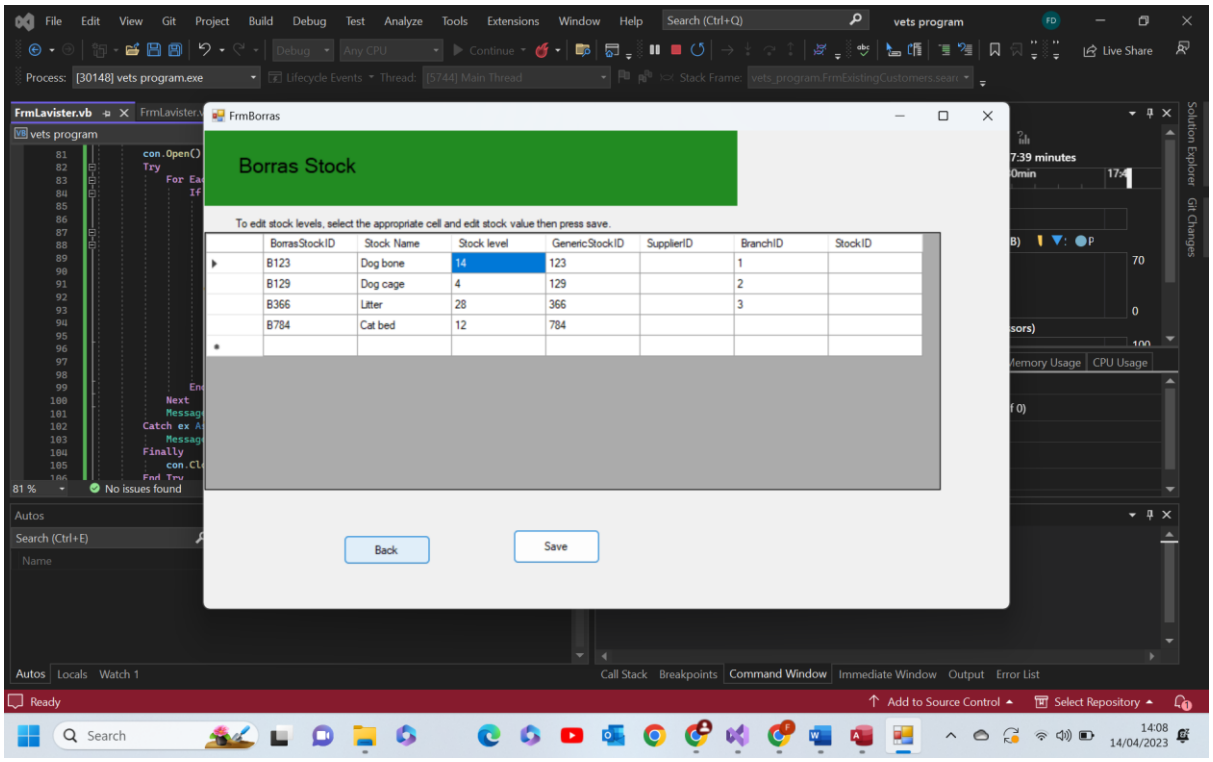




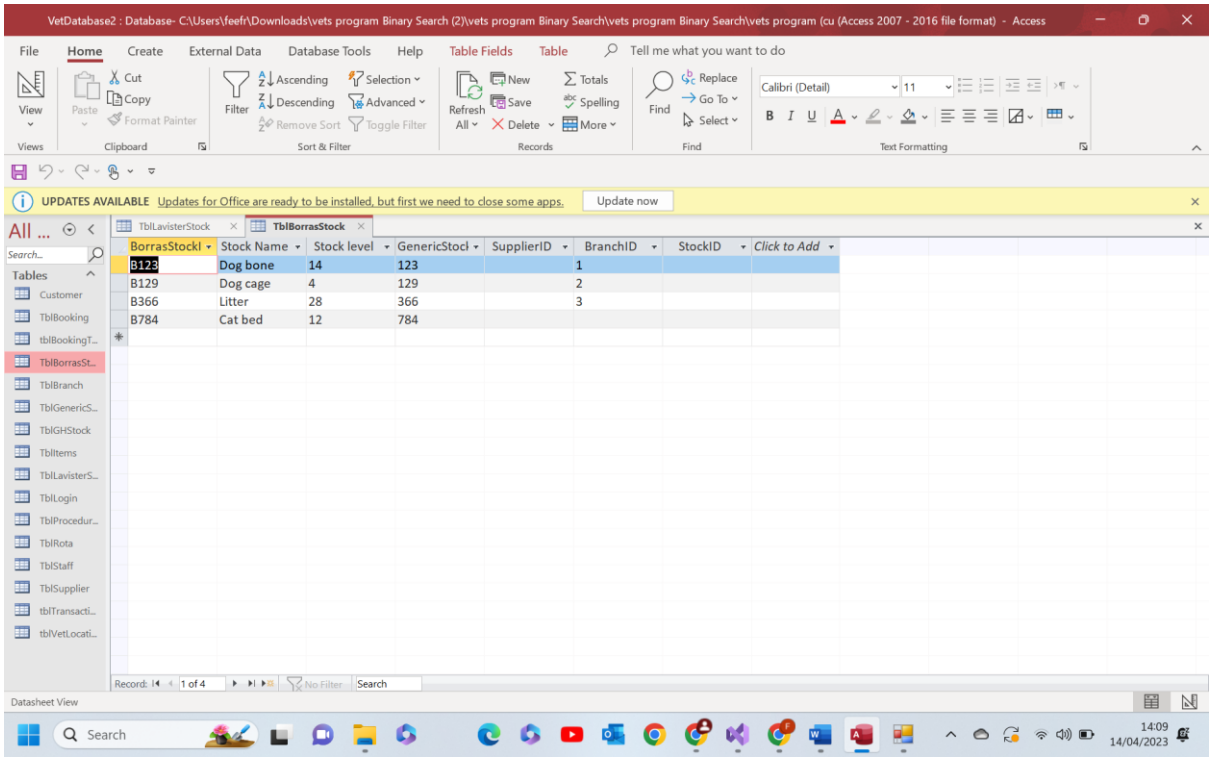
Test 6.3 comments- this test is similar to test 6.2 with the only difference being the use of the save button. As expected a message box appears and informs the user of the changes that have been made and that the changes were successful. Pass

6.4-



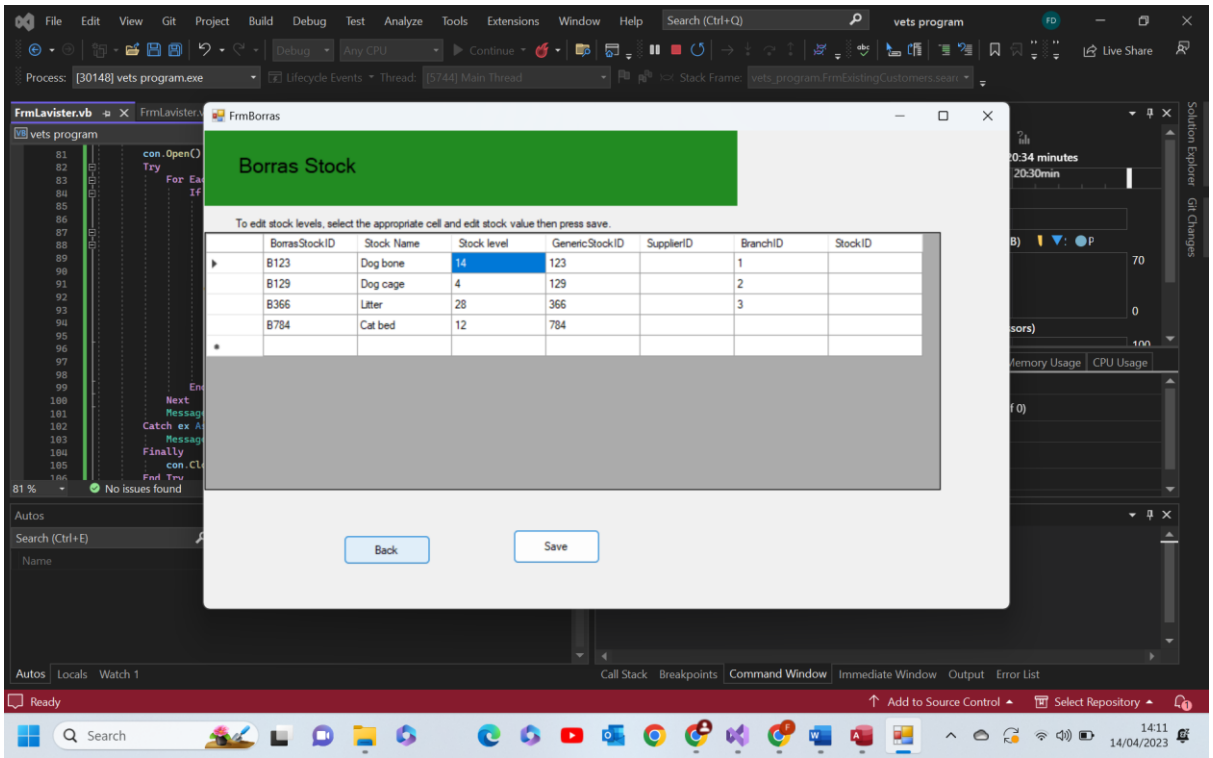


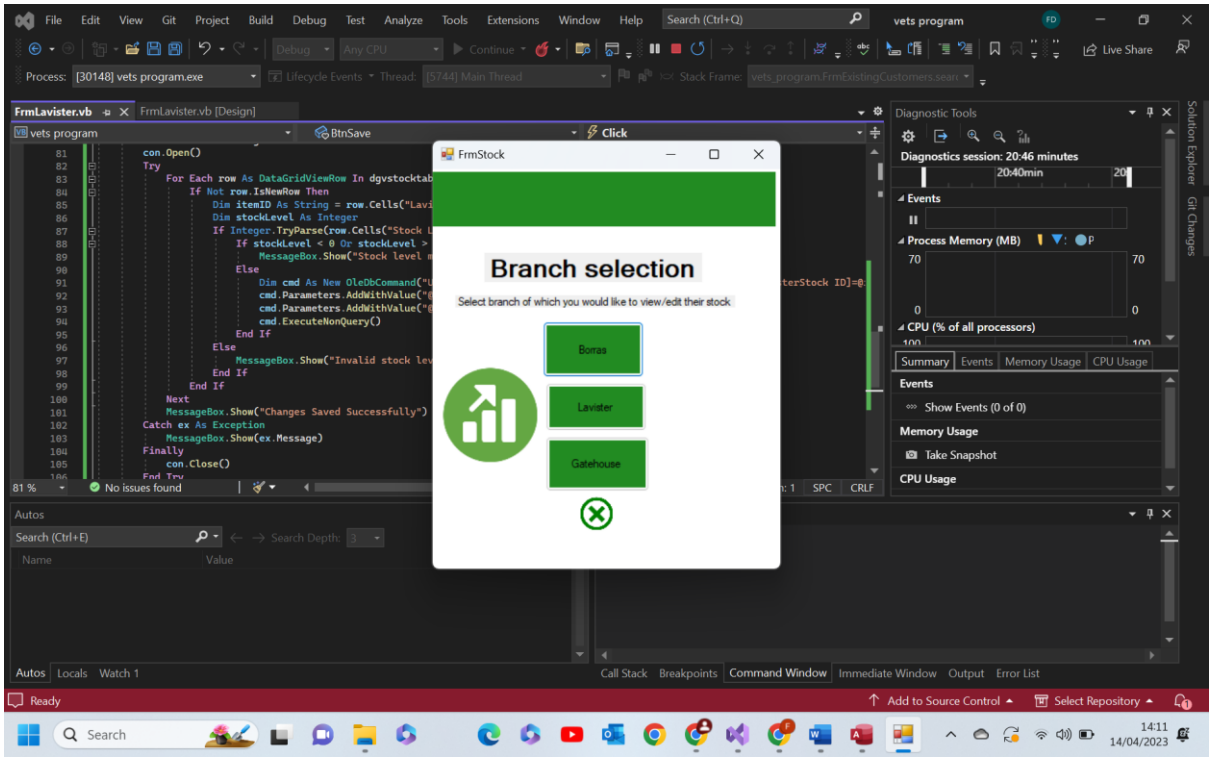
Thos second screenshot is after closing and re-opening the form to prove the value remains.



Test 6.4 comments- in this test I have included screen shots of all aspects of the save. The second is to prove that the value remains once the program has been closed and re-opened and the third is to prove the value has actually been written into the database.
Pass

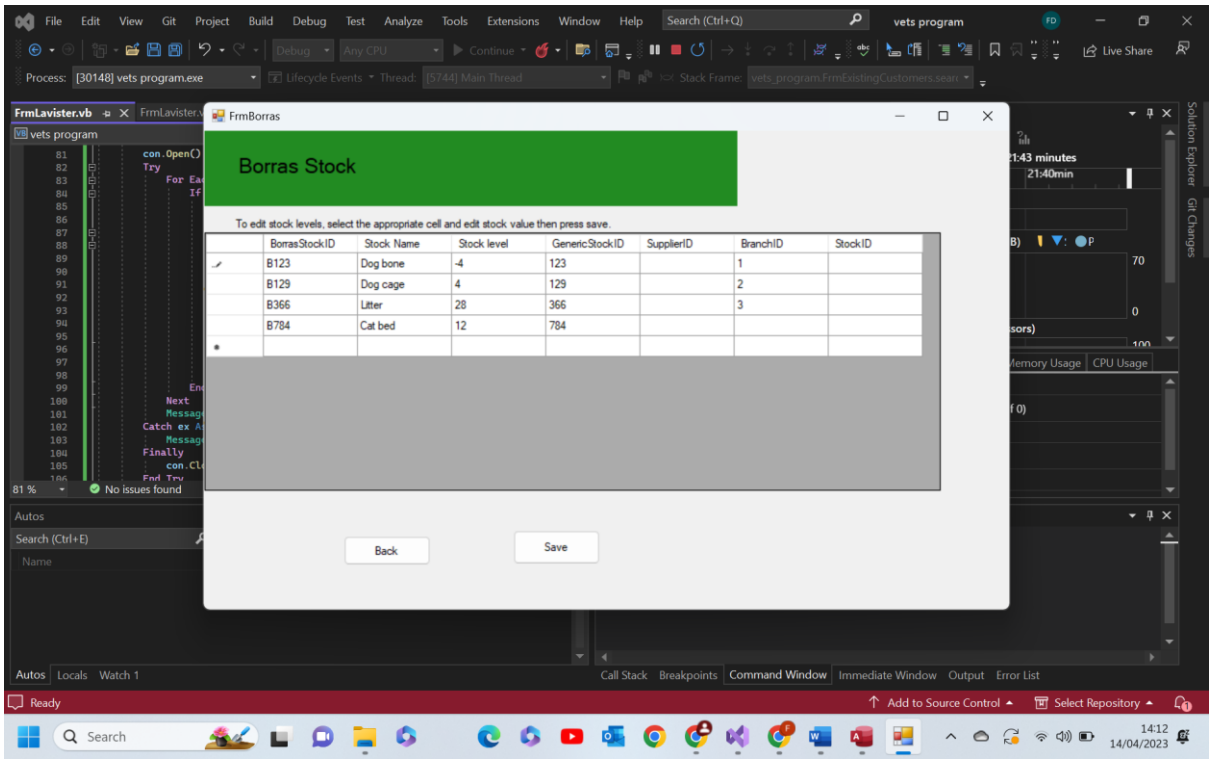
6.5-

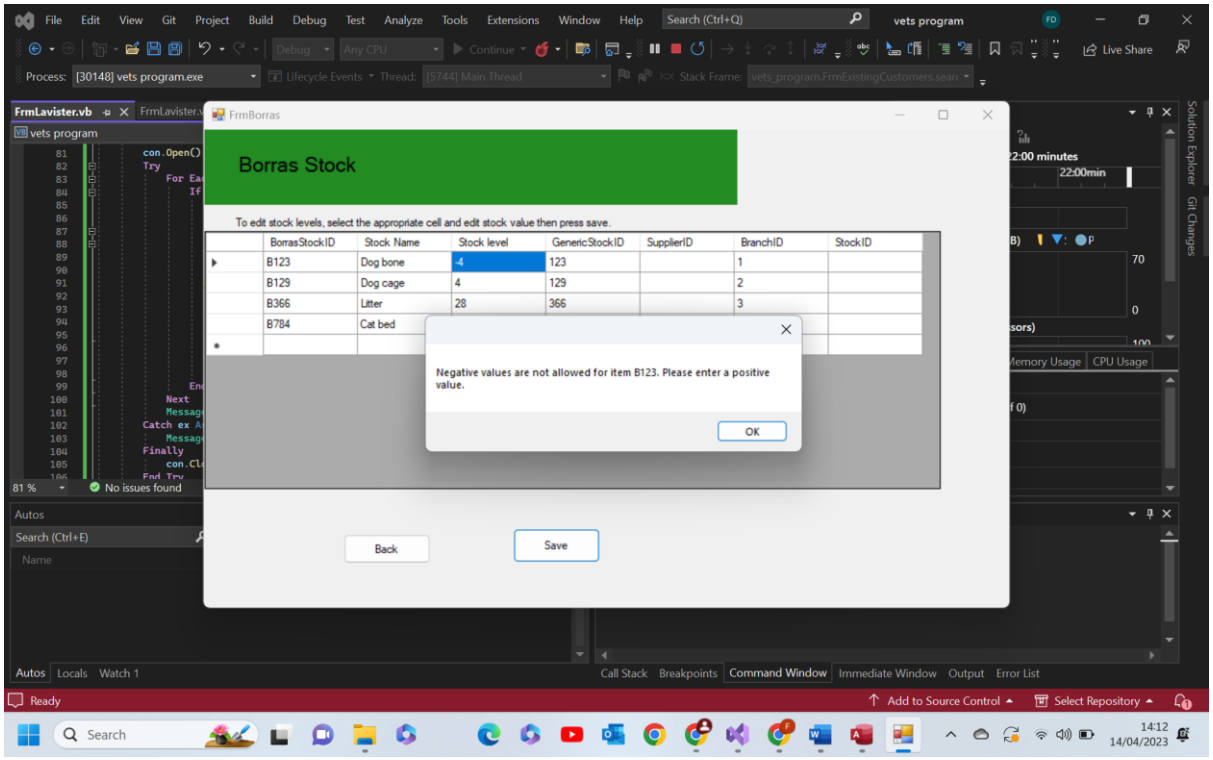




Test 6.5 comments- as shown above the back button works as expected. Pass

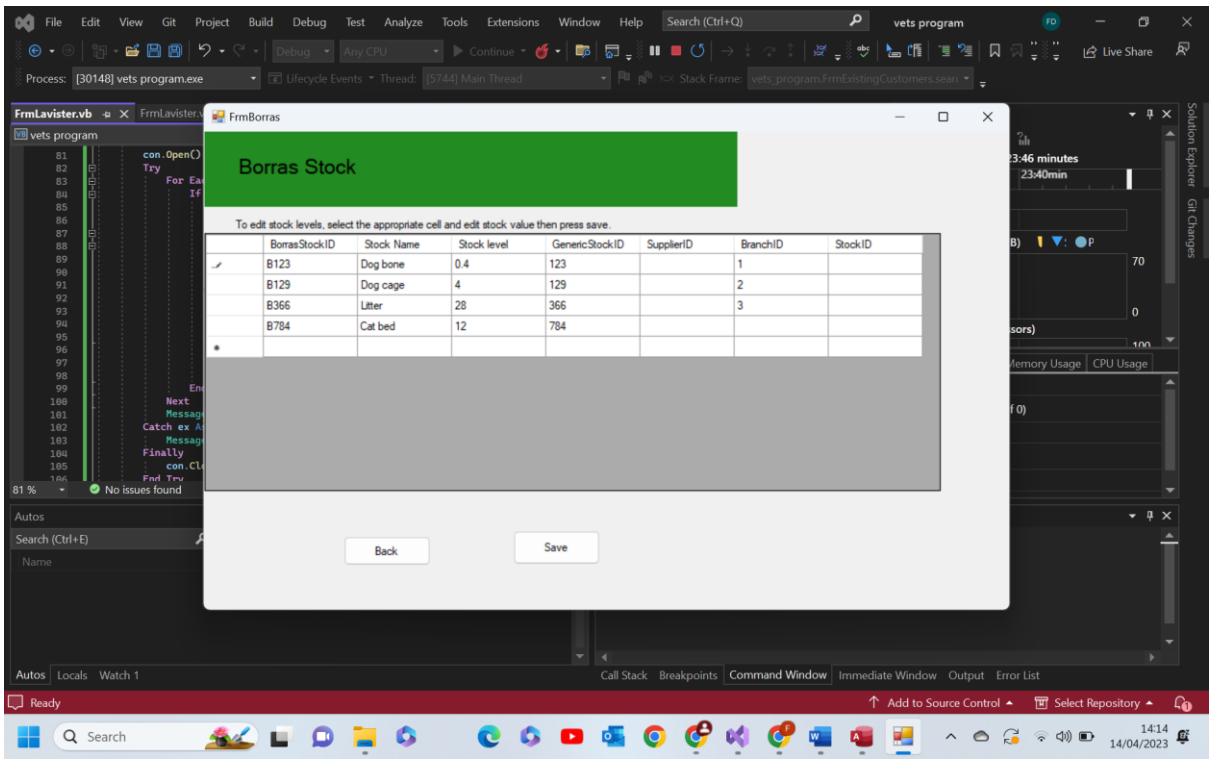
6.6-

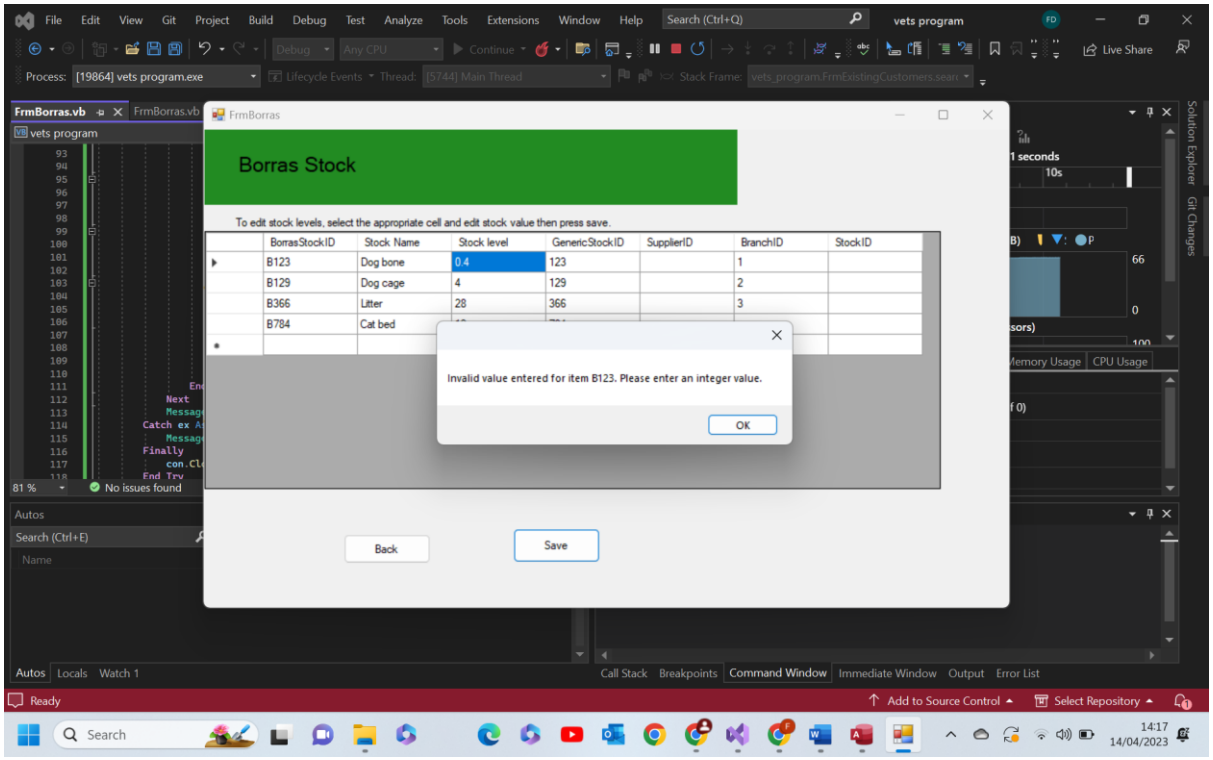




Test 6.6 comments- as shown above the program recognises that the value entered does not comply with those I have coded to be valid and is so invalid. The program then outputs an appropriate message box. Pass

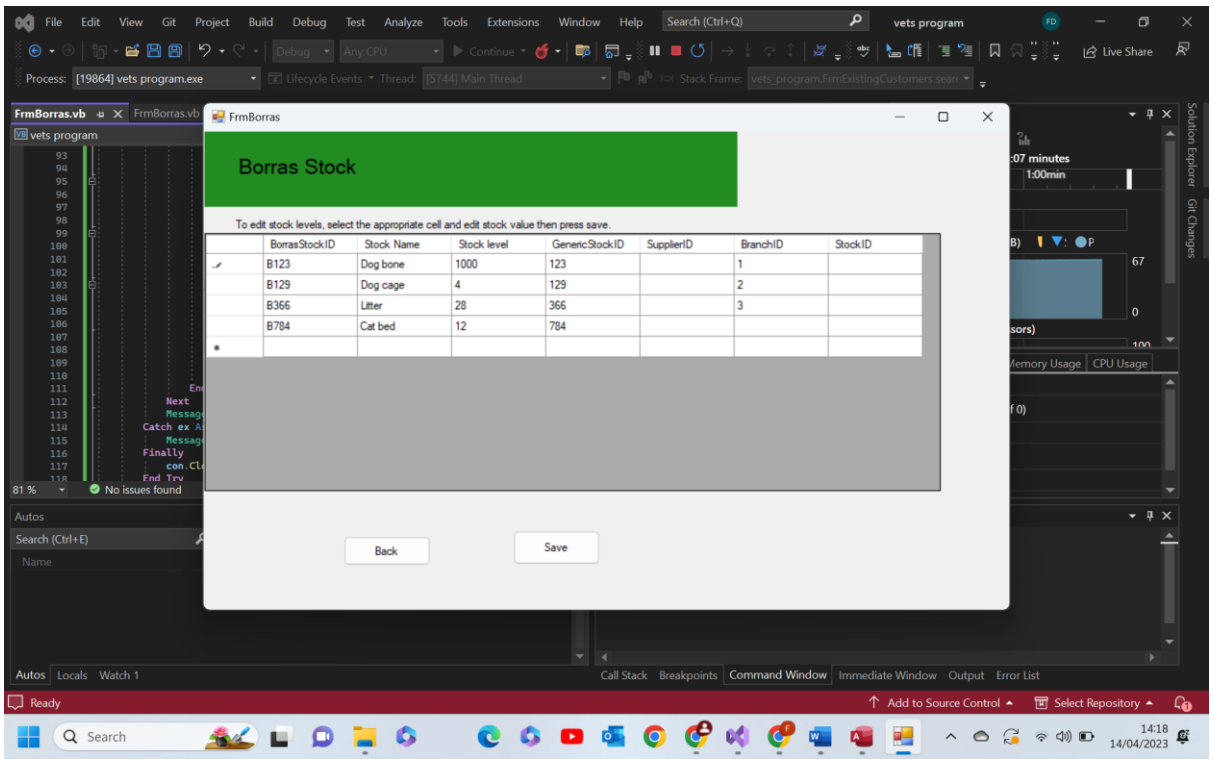
6.7-

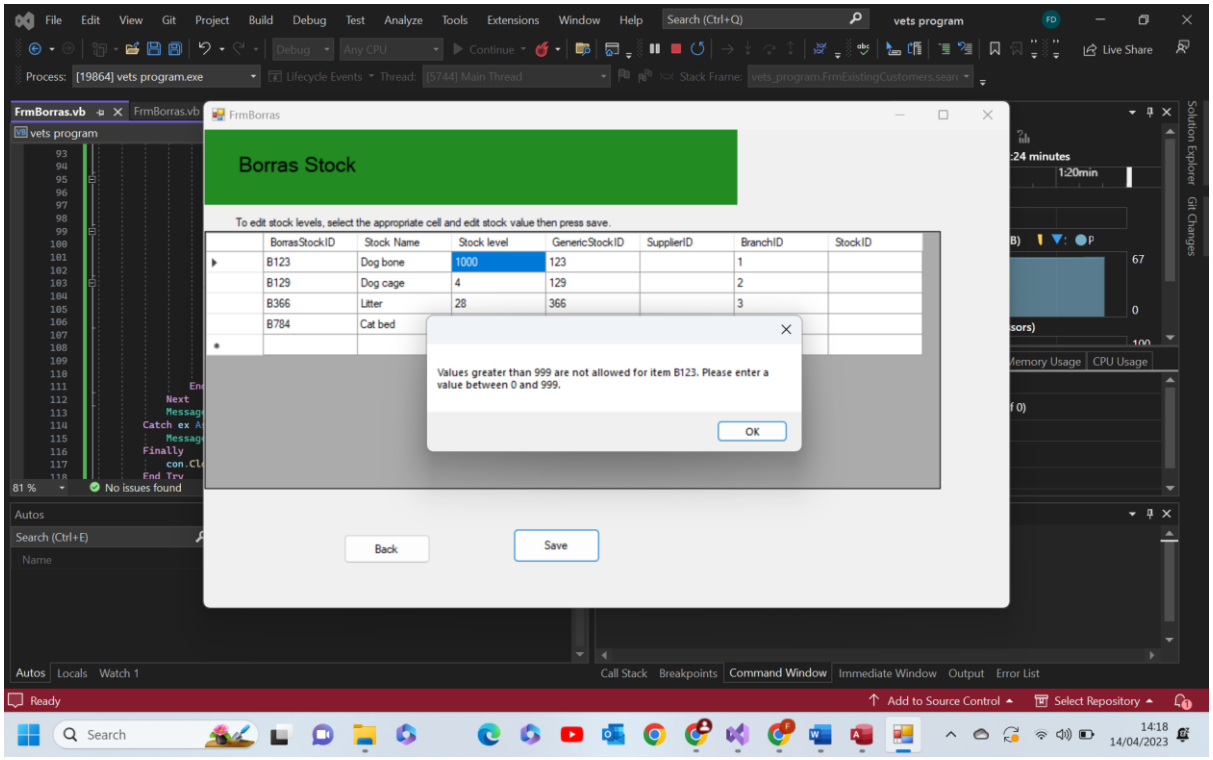




Test 6.7 comments- as shown above the program recognises that the value entered does not comply with those I have coded to be valid and is so invalid. The program then outputs an appropriate message box. Pass

6.8-

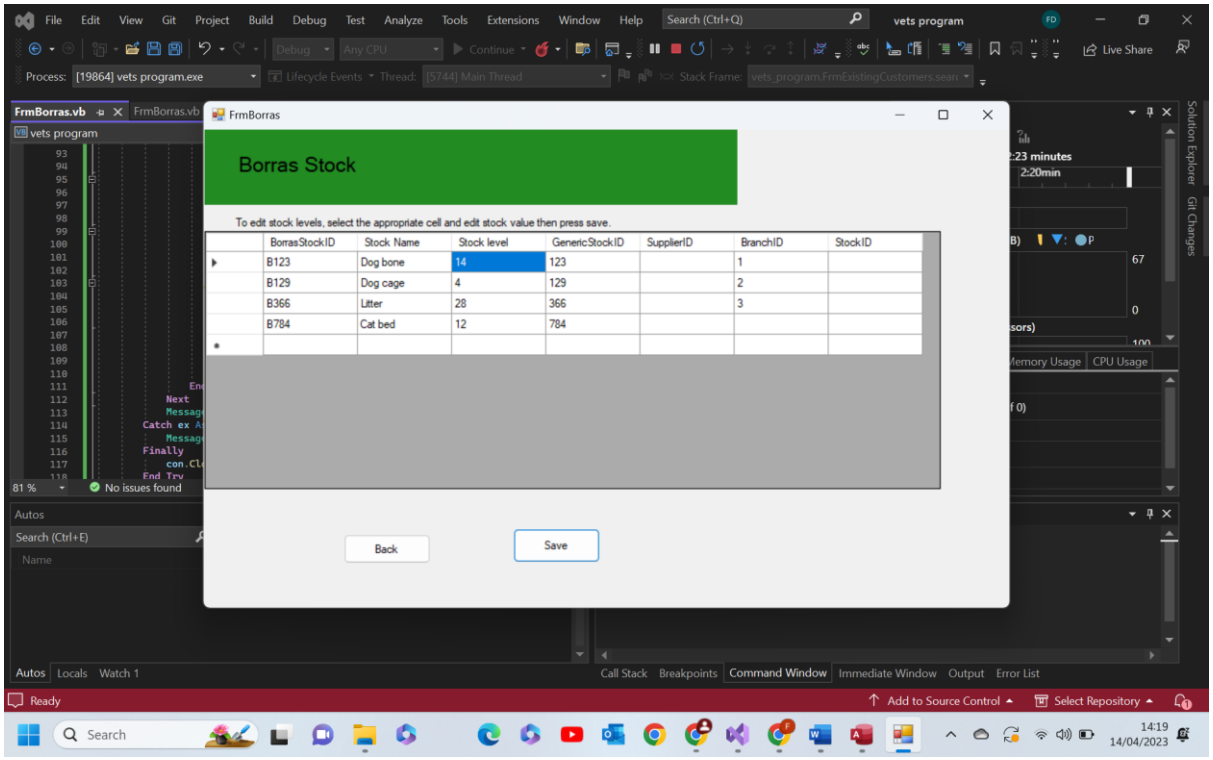




Test 6.8 comments –

as shown above the program recognises that the value entered does not comply with those I have coded to be valid and is so invalid. The program then outputs an appropriate message box. Pass

validation test aftermath-



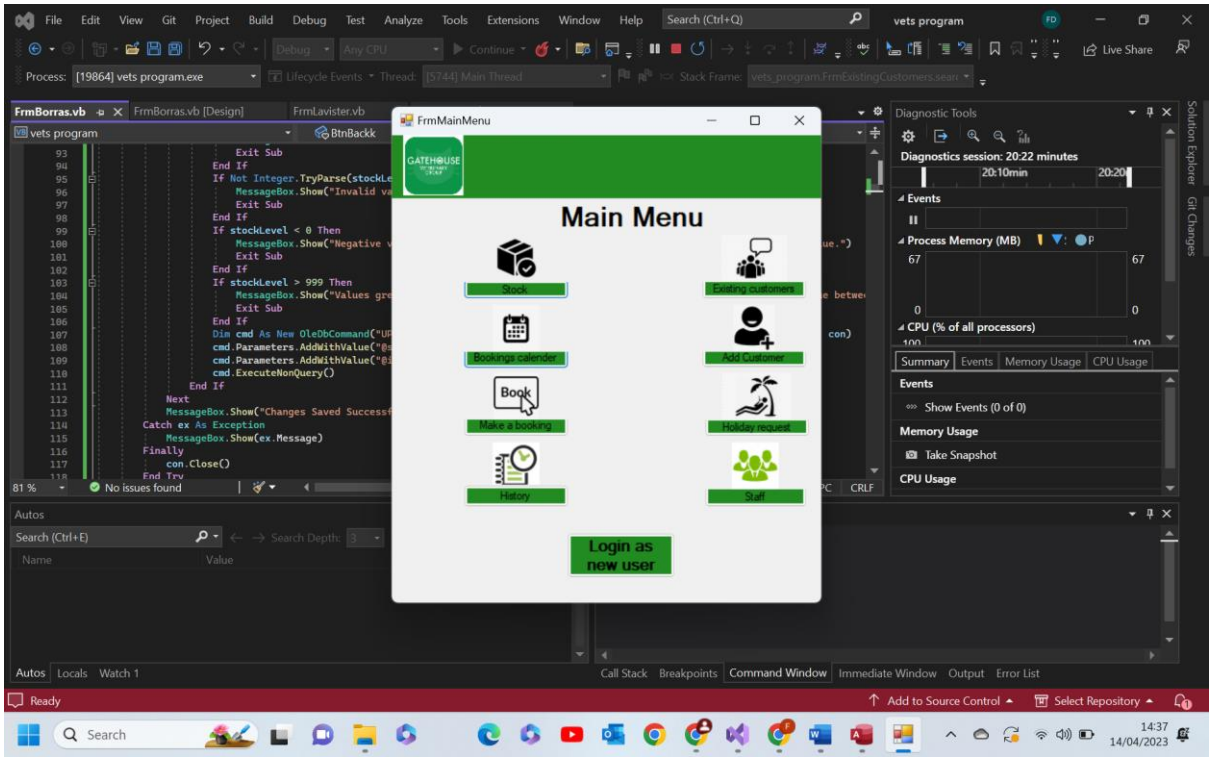
As shown above despite all the invalid and extreme data the program still stores the originally stored value of 14. This proves the validations actually work and are not just message boxes.

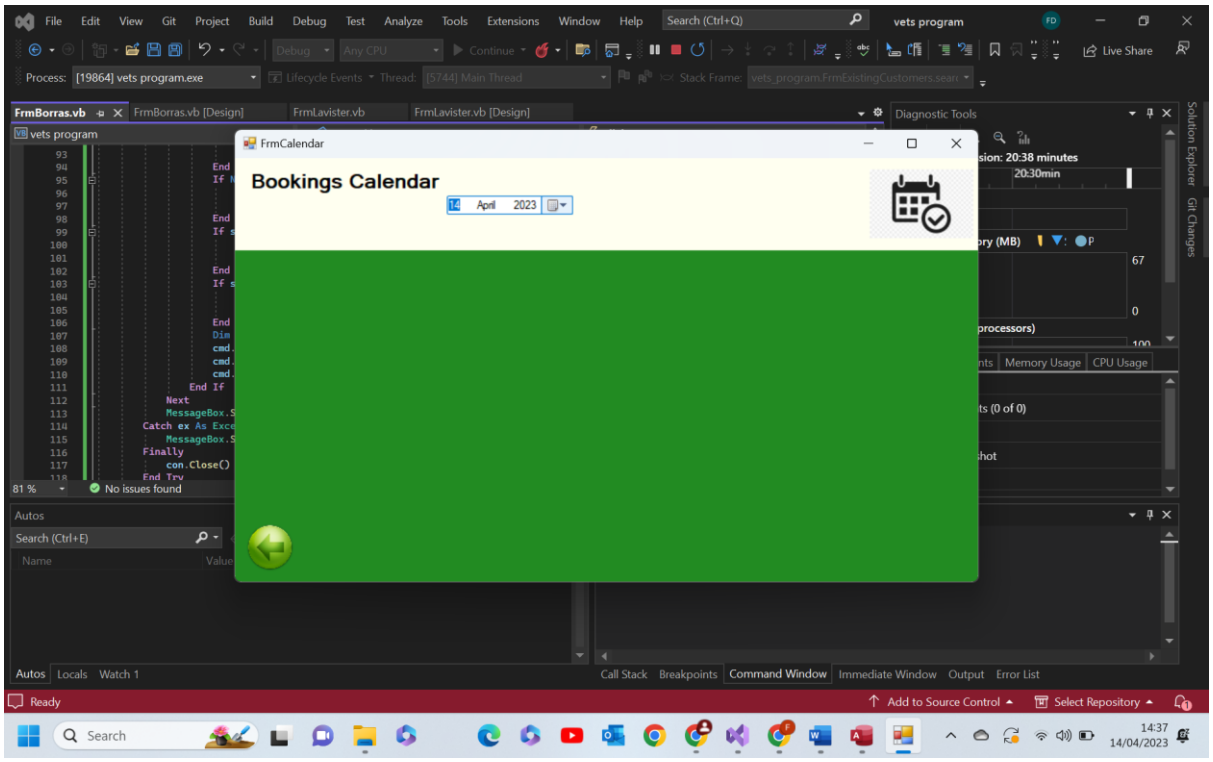
Test group 7- Booking calendar form:

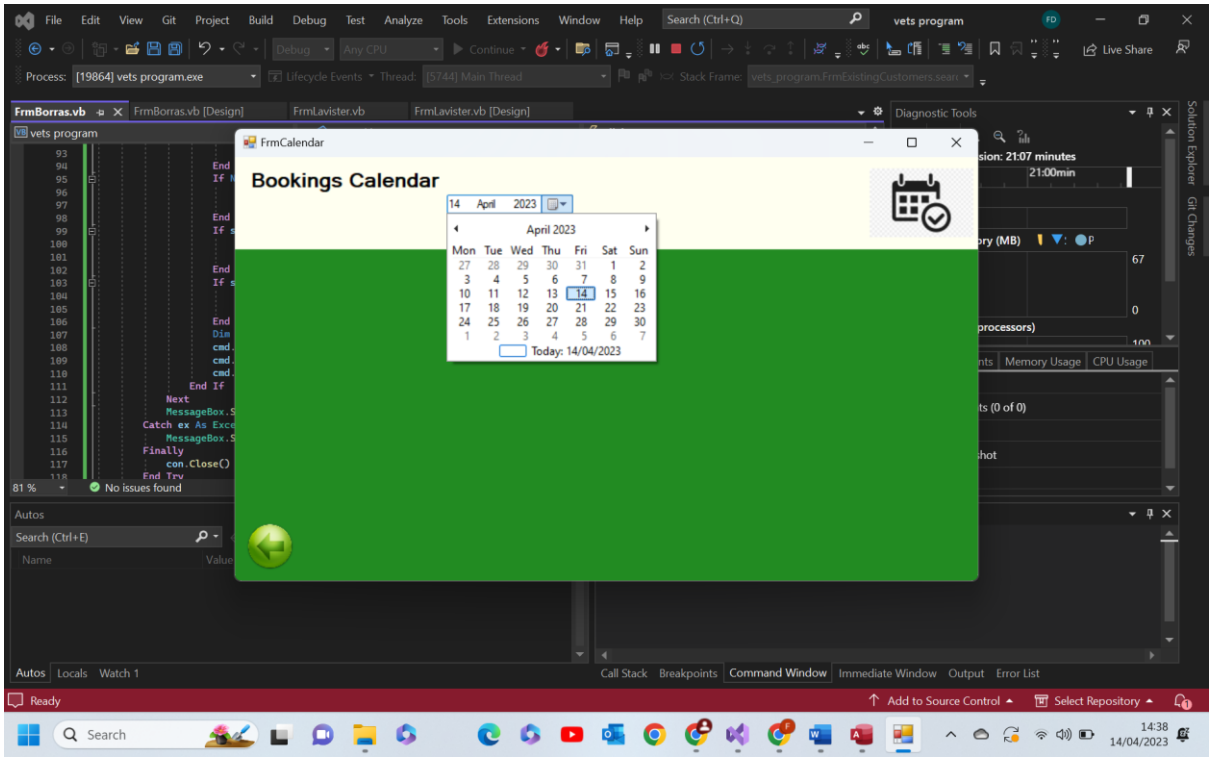
Test Number	Test data	Actual outcome	Verdict	comment
1	Functional test	As expected the date time picker was loaded and worked as expected	Pass	N/A
2	Invalid data type Date with no bookings Date used: 03/03/2025	No buttons generated and page left blank as expected	Pass	N/A
3	Valid data type used Date with bookings Date used:01/01/2024	Buttons generated dependant on number of booking times associated with booking date.	Pass	N/A
4	Functional test Valid date type Programmatically loaded button selected	When a generated button pressed a smaller form loads showing additional info of that booking.	Pass	Addition of extra buttons would definitely improve the usefulness of this form. Namely edit

				and delete buttons. This would increase the productivity and ease of use for the user.
5	**Functional test ‘back’ button on booking information form**	**When the small ‘back’ button on the generated form is pressed the smaller form closes and the calendar form appeared**	**Pass**	**N/A**
6	**Functional test Form back button**	**Small programmatically generated form closed and calendar form appears on its own**	**Pass**	**N/A**
7	**Functional test Varying number of bookings and so buttons Valid test data type used Date used 03/03/2024**	**Size of buttons altered themselves via the equation I coded to ensure all buttons were able to fit on the page.**	**Pass**	**N/A**

7.1-

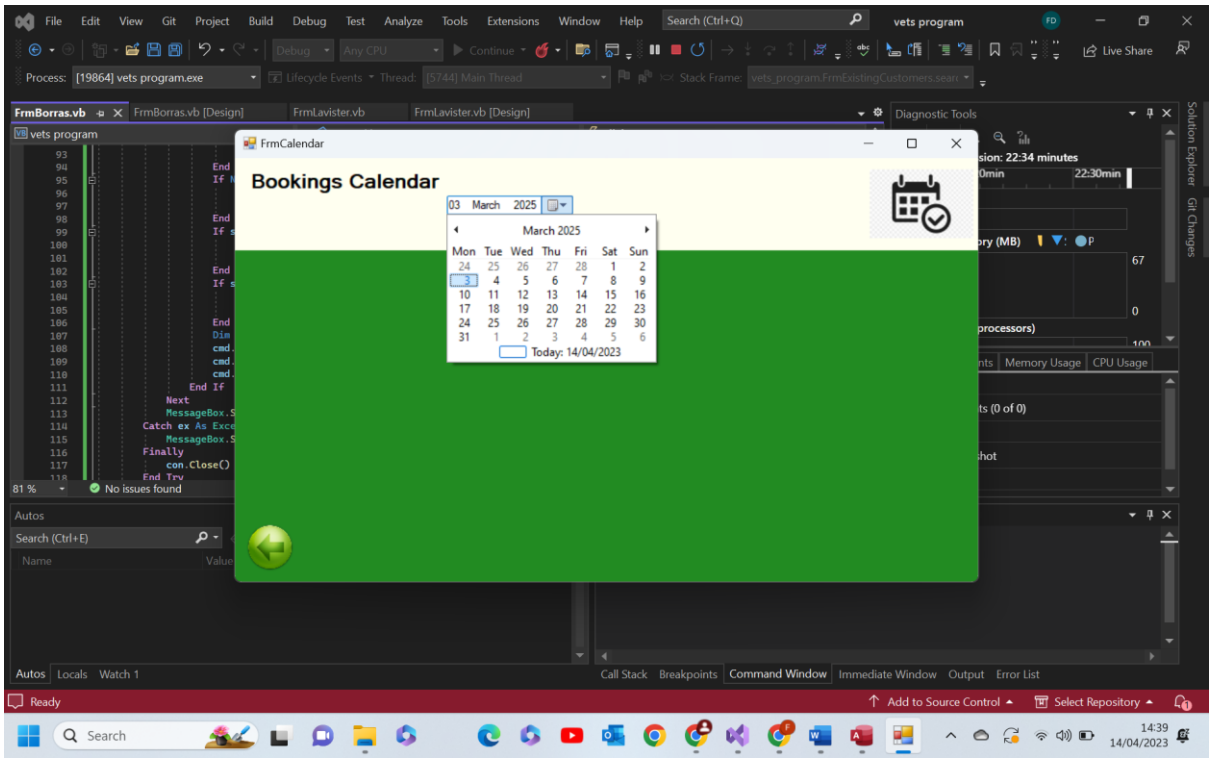

FrmMainMenu
Main Menu
Stock
Existing customers
Bookings calender
Add Customer
Book
Make a booking
Holiday request
History
Staff
Login as new user

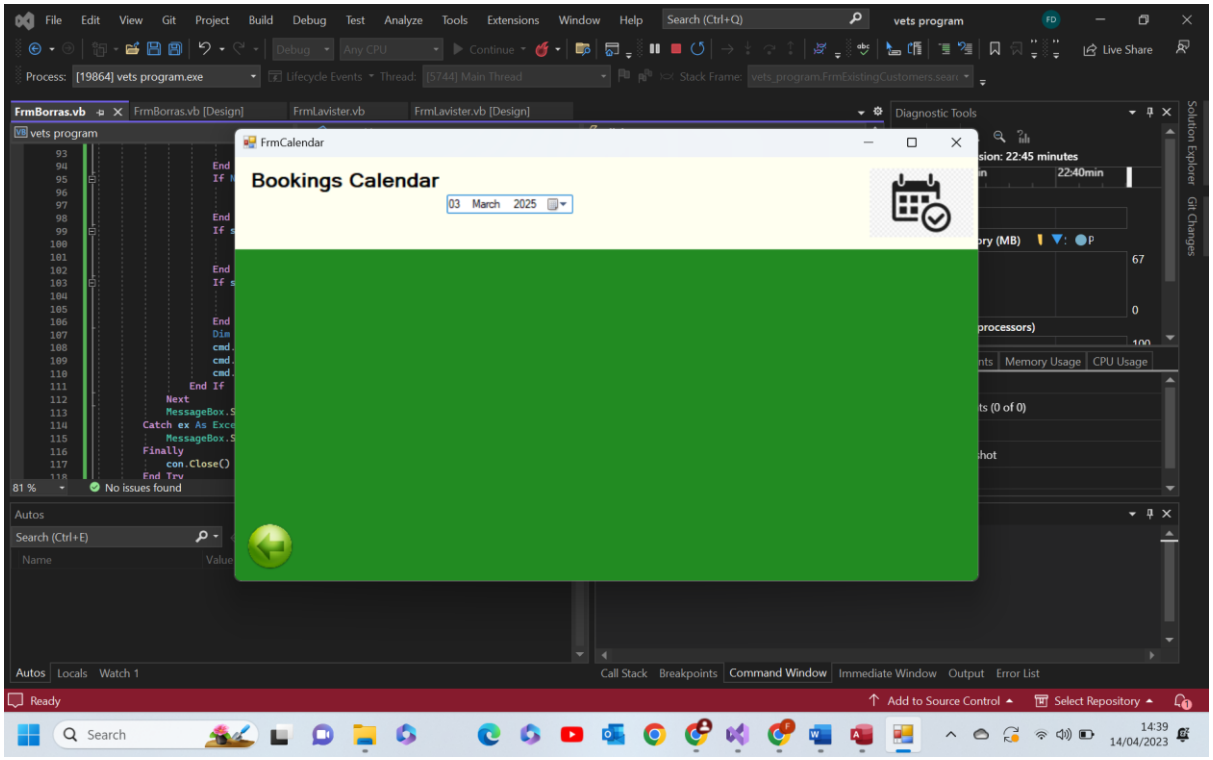

FrmCalendar
Bookings Calendar
April 2023



Test 7.1 comments- as shown above the date time picker works as expected and appears when the form is loaded. Pass

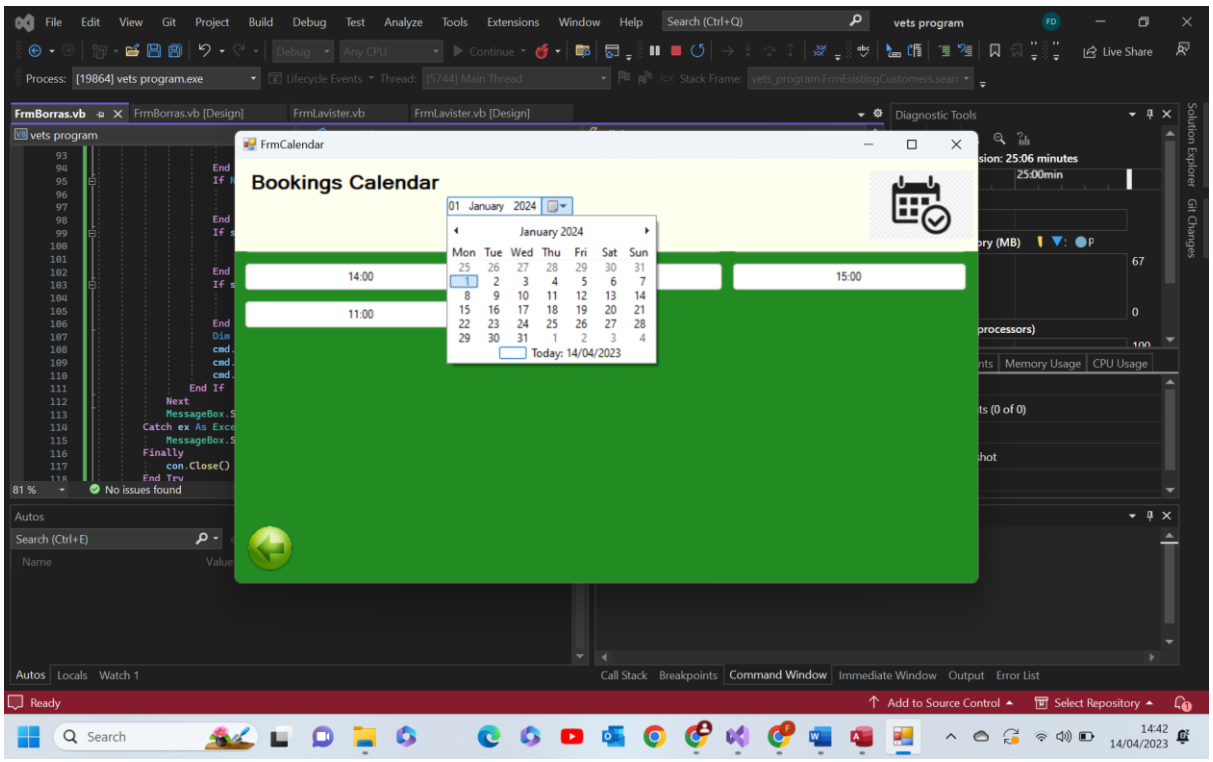
7.2-

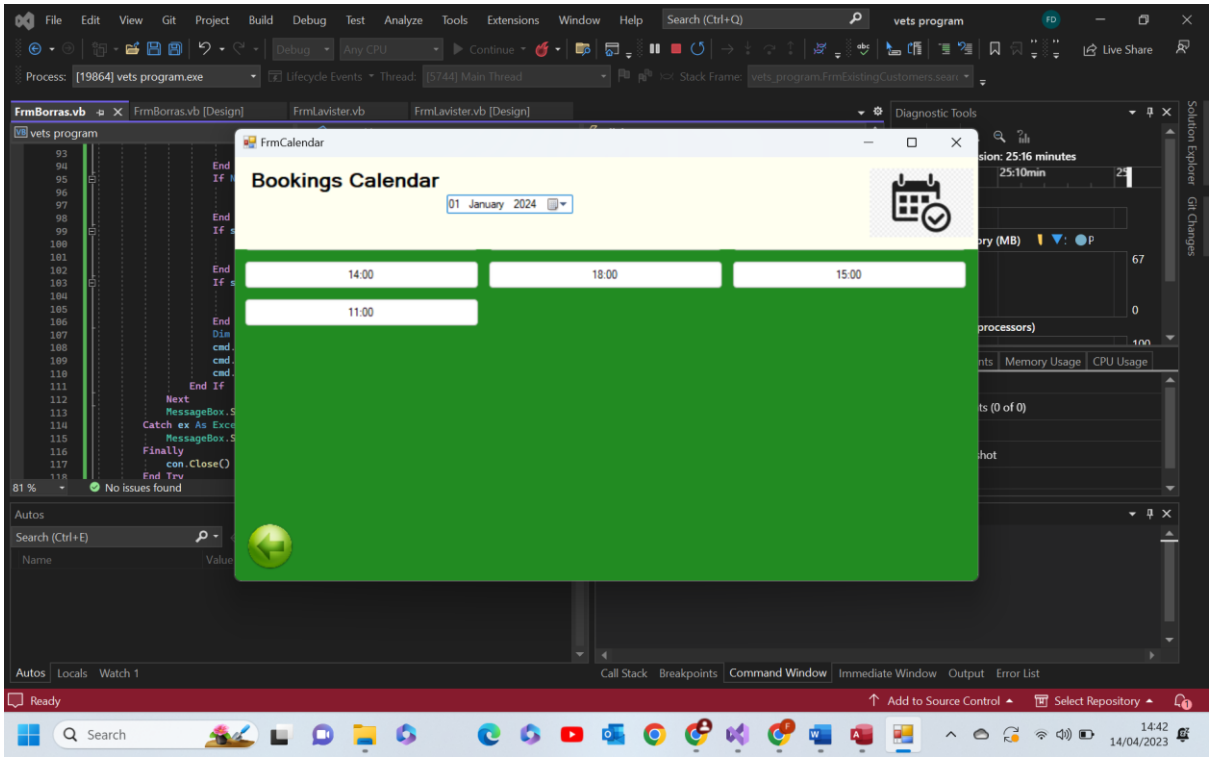




Test 7.2 comments- as we can see above when a invalid date, a date with n o bookings is entered, the program checks the date against those saved in the database, realises that no bookings are saved on that day and so doesn't generate any buttons. Pass

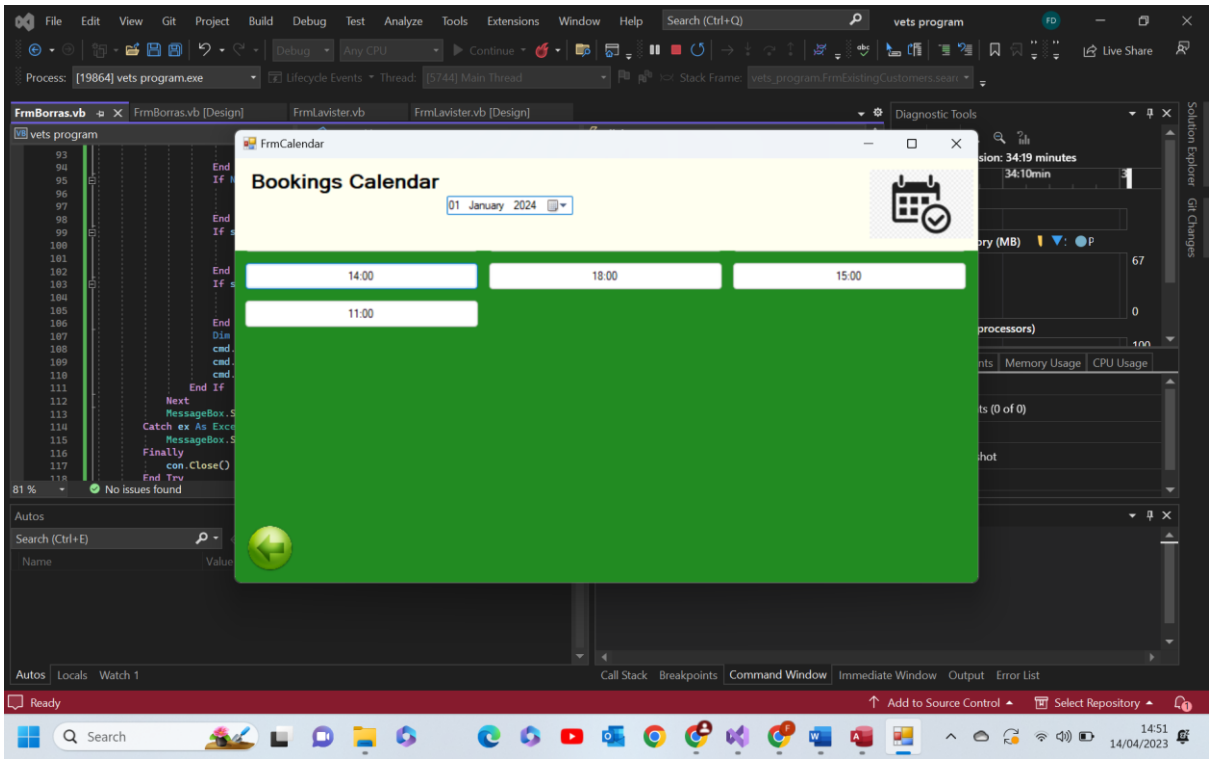
7.3-

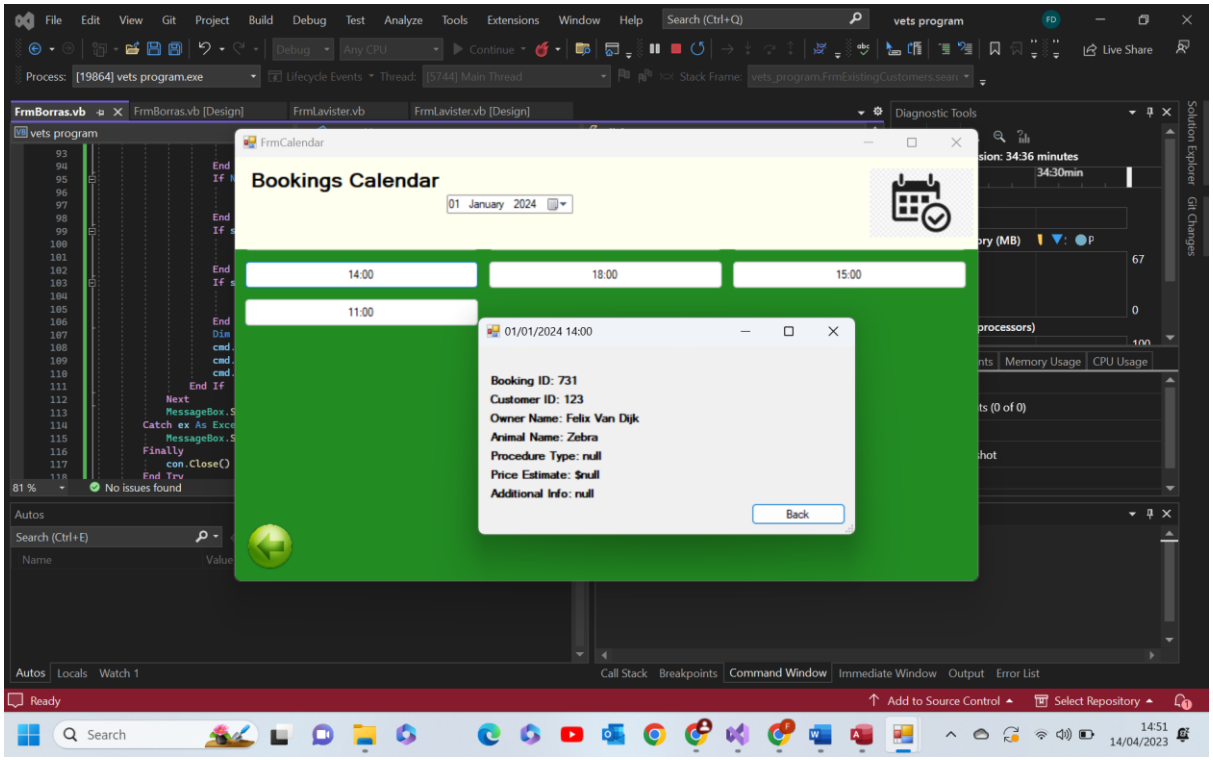




Test 7.3 comments- as we can see above when a valid date is entered the program checks this date against those saved in the database and recognises that there are bookings on this day. It then checks how many booking dates are associated with this day and proceeds to output that many buttons with the booking time as the text within the button.
Pass

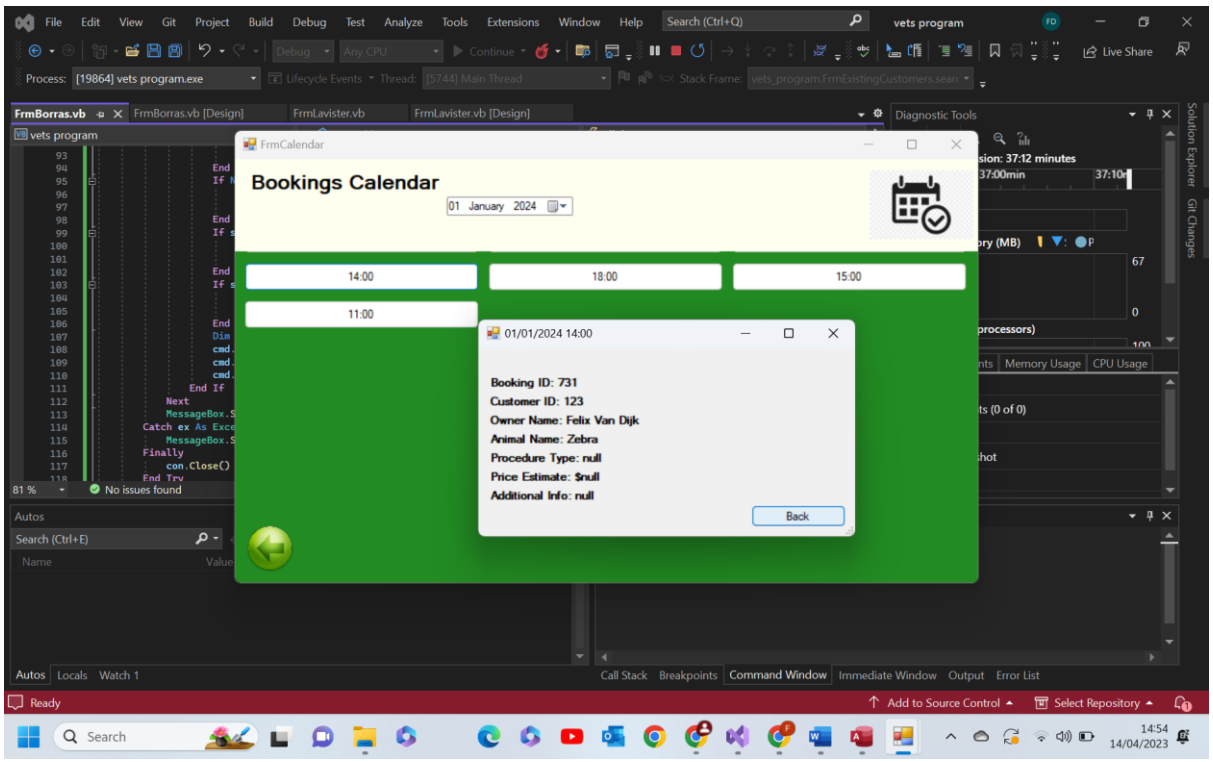
7.4-

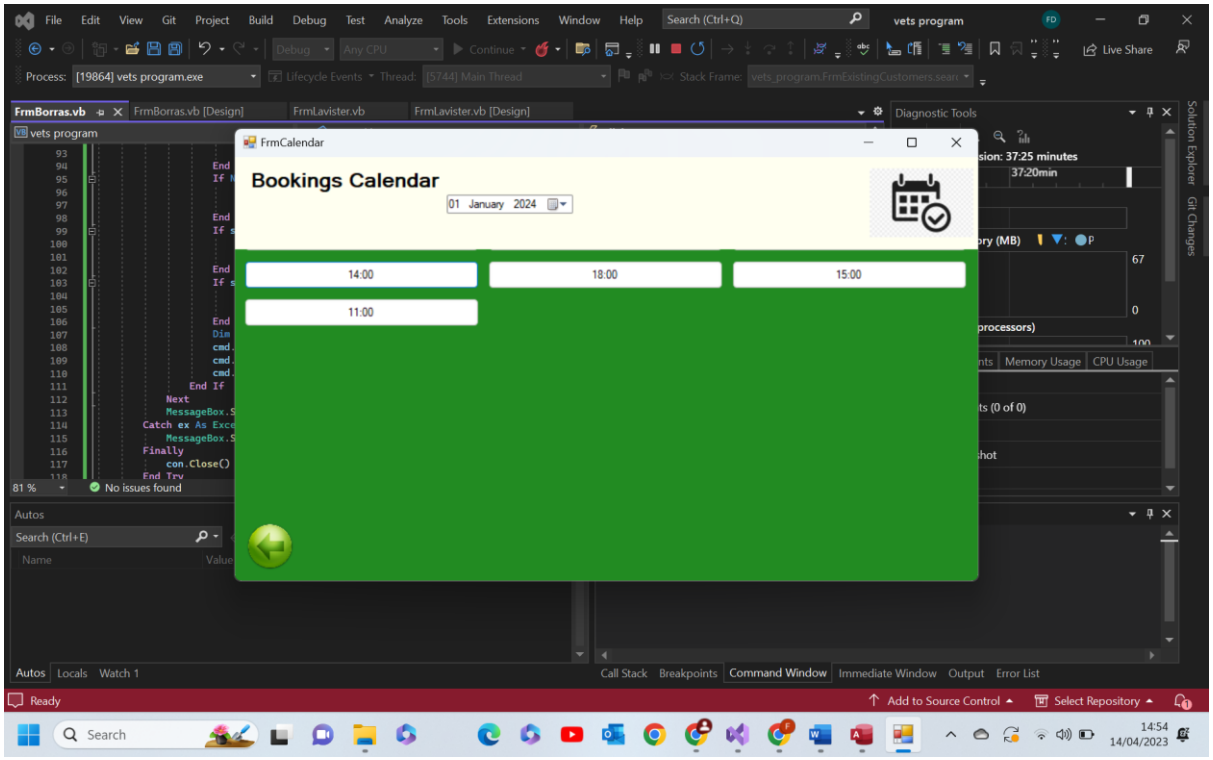




Test 7.4 comments- as shown above when we select a programmatically generated button a smaller form is generated that includes all the other information to do with that booking. The generation of an extra form is to ensure that the original calendar form does not become over crowded with bookings and remains a sleek design. Pass

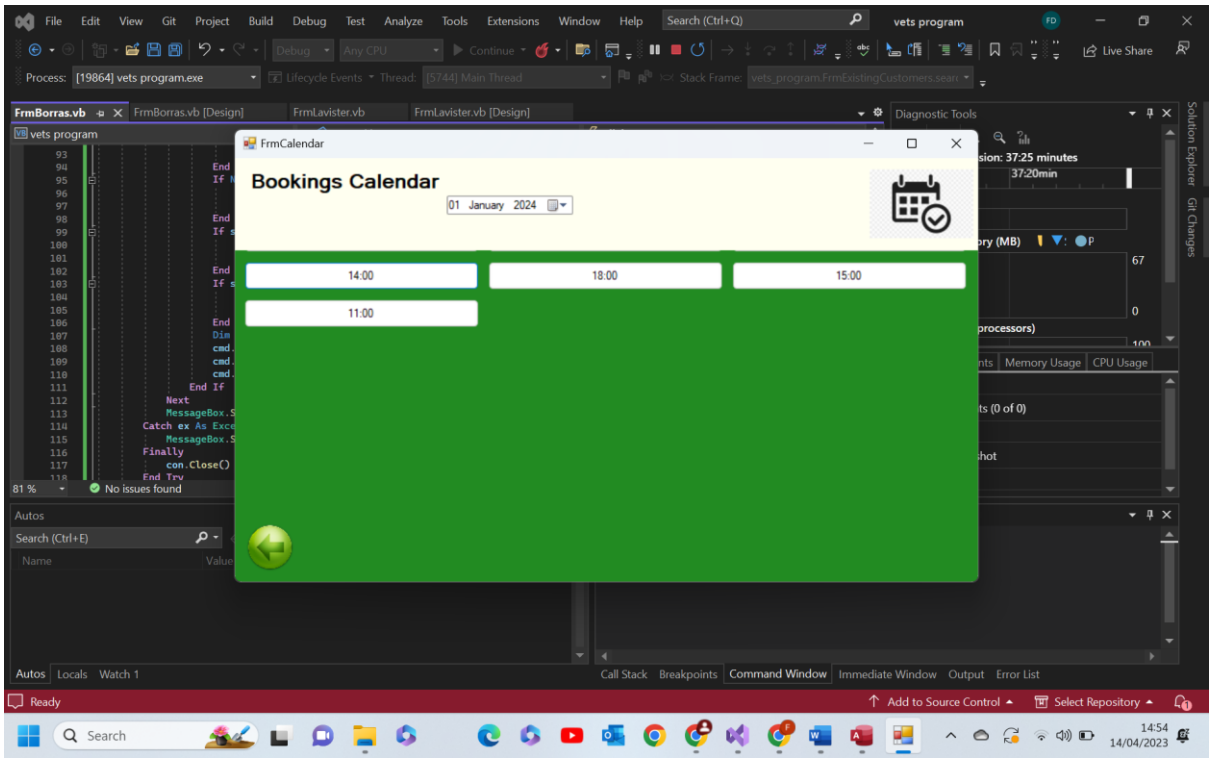
7.5-

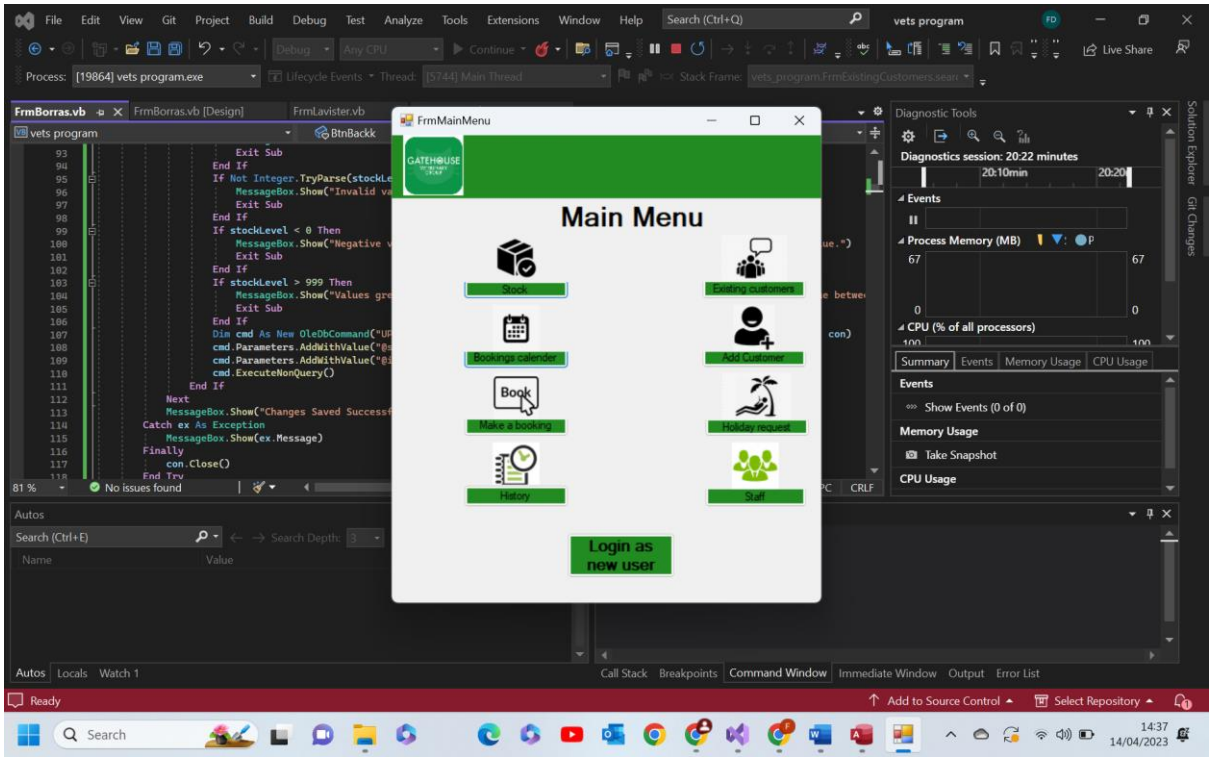




Test 7.5 comments- as we can see above when the back button is pressed the smaller for is closed leaving just the calendar form. Pass

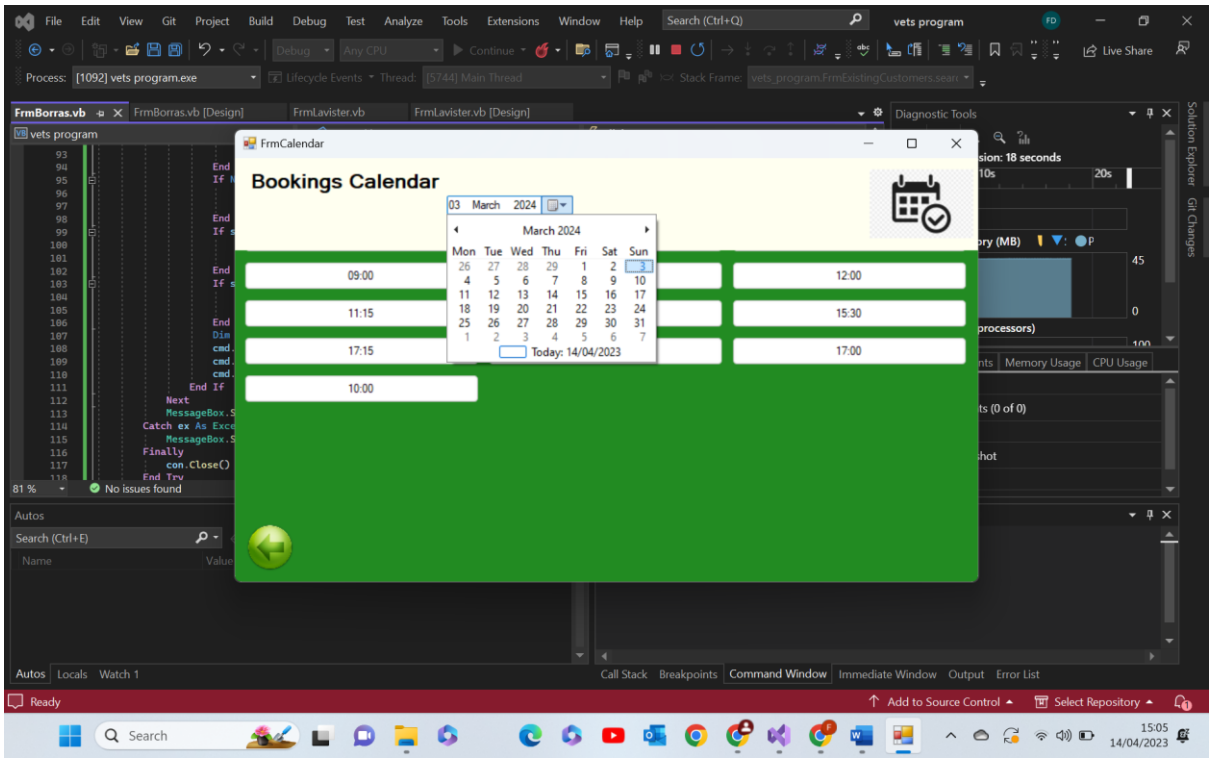
7.6-

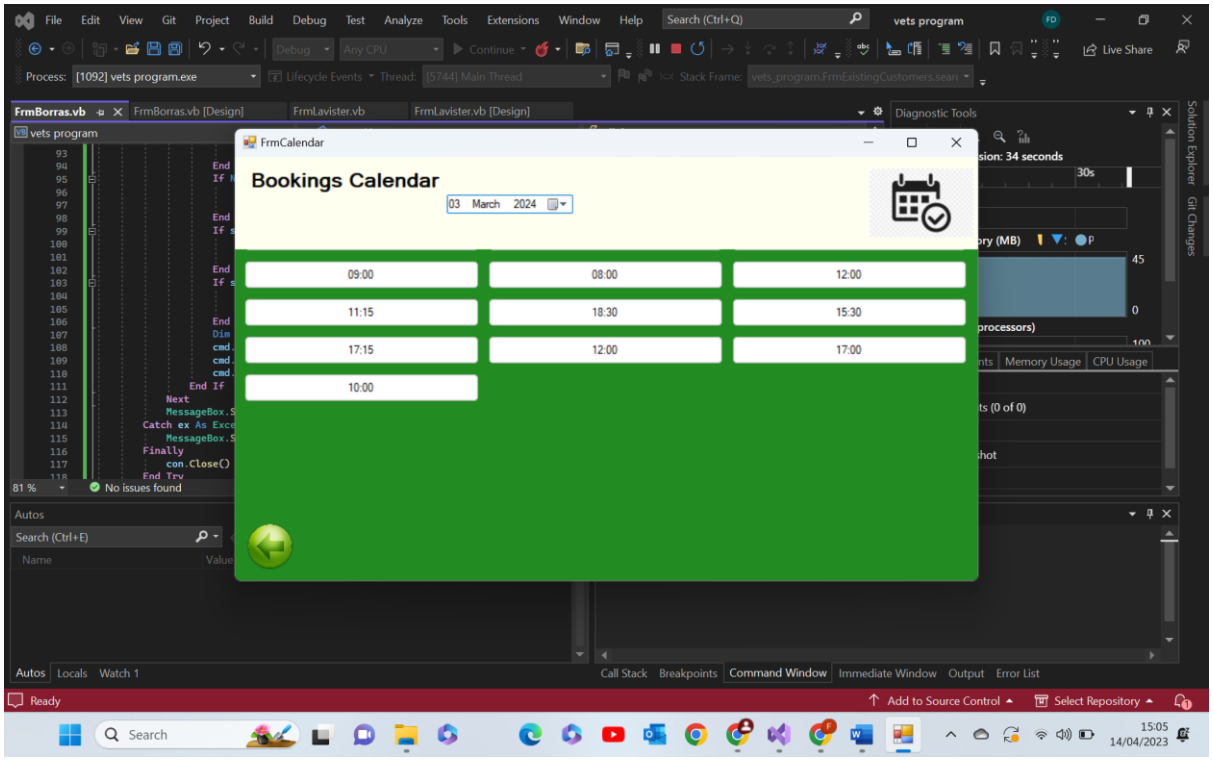




Test 7.6 comment- as we can see above when the green back arrow picture box is selected the calendar form closes leaving the main menu form shown. Pass

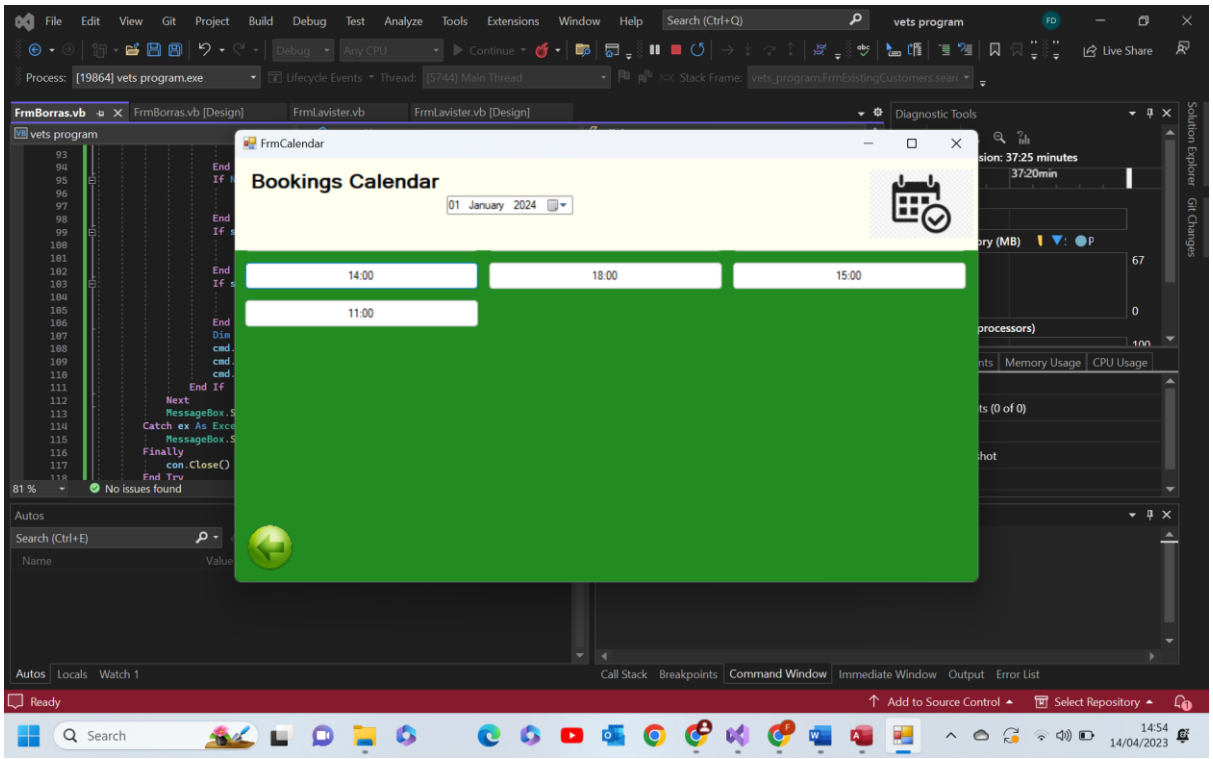
7.7-



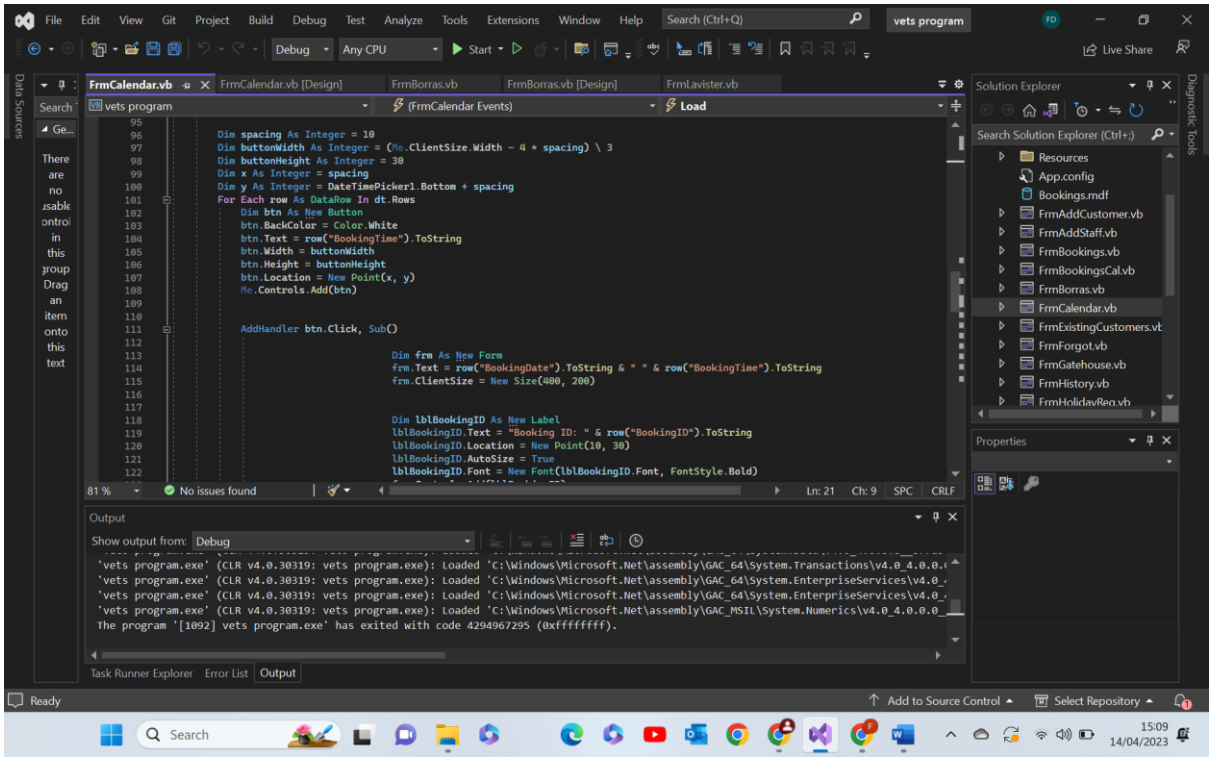


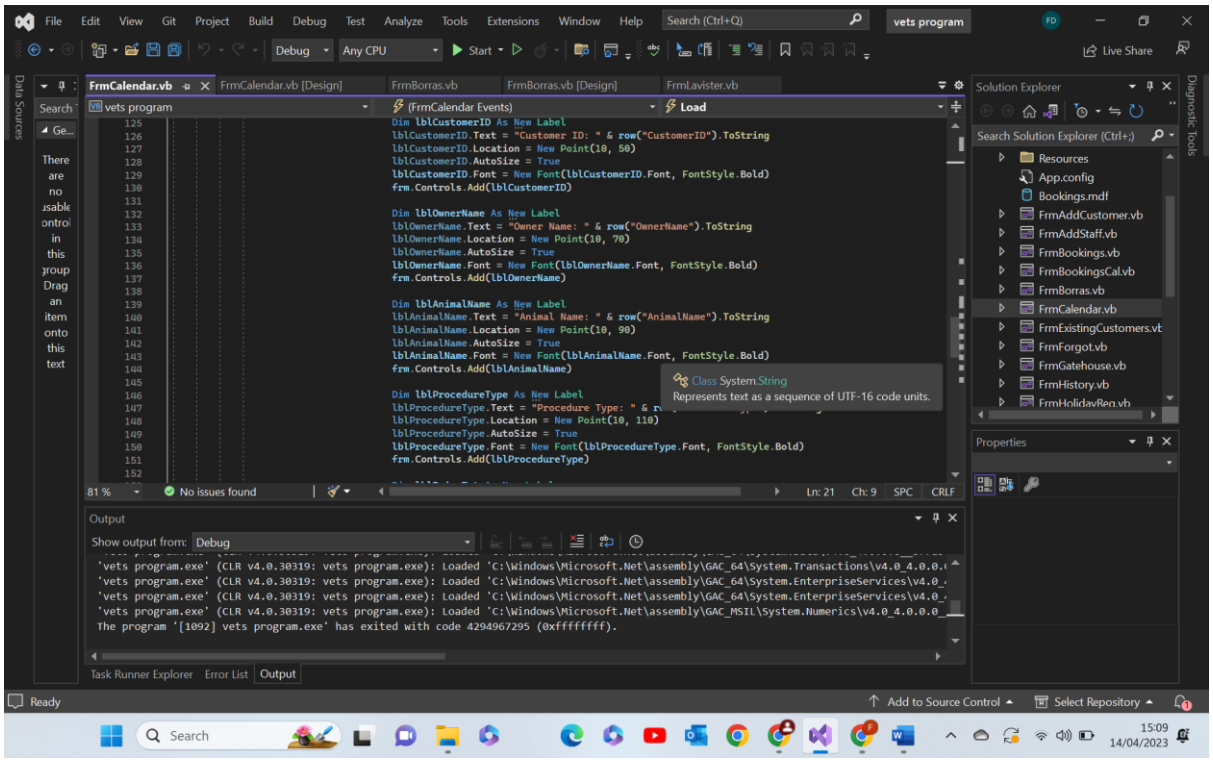
As we can see when comparing them to the next screenshot, the buttons have become smaller in order to accommodate them all on the page

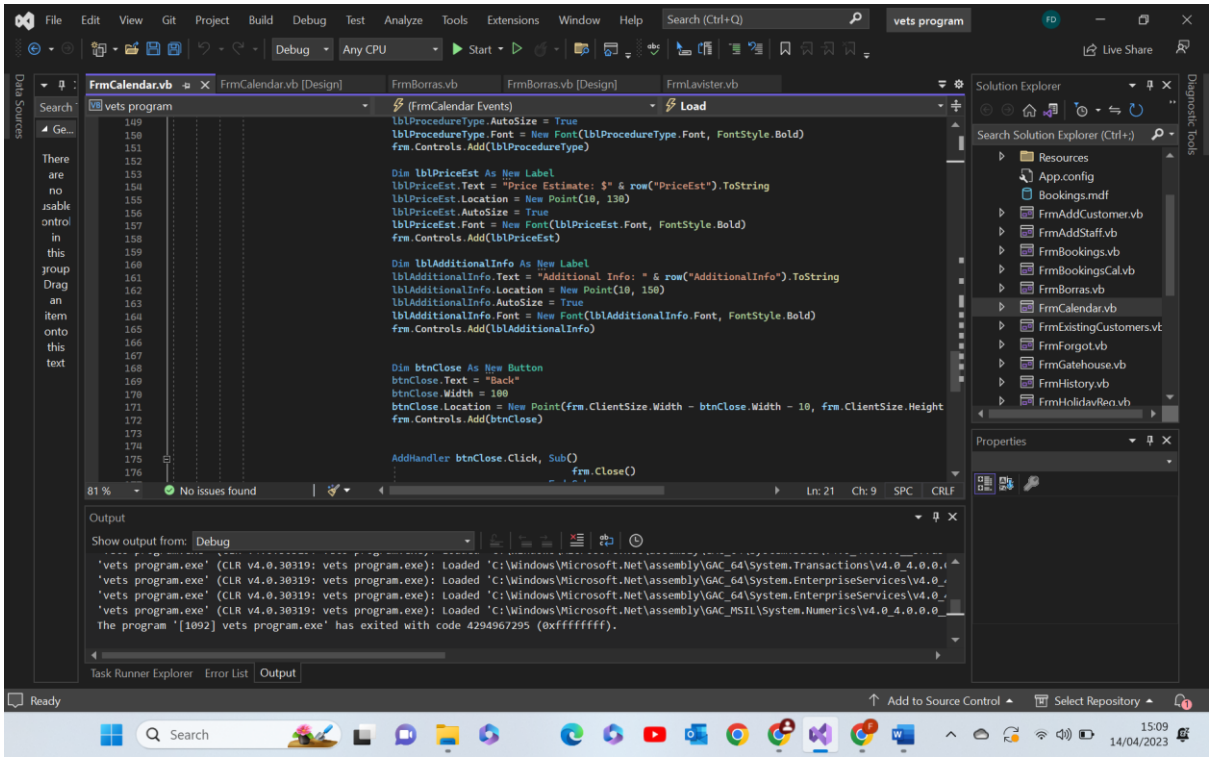
Comparison:



Test 7.7 comments- as we can see above the size of the buttons alters dependant on how many need to be generated. This is in order to make sure they all fit nicely on one page. This is done via the equation in the code shown below. Pass


File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
Search (Ctrl+Q)
vets program
Debug
Any CPU
Start
Live Share
FrmCalendar.vb
FrmCalendar.vb [Design]
FrmBorras.vb
FrmBorras.vb [Design]
FrmLavister.vb
vets program
(FrmCalendar Events)
Load
Dim spacing As Integer = 10
Dim buttonWidth As Integer = (Me.ClientSize.Width - 4 * spacing) \ 3
Dim buttonHeight As Integer = 30
Dim x As Integer = spacing
Dim y As Integer = DateTimePicker1.Bottom + spacing
For Each row As DataRow In dt.Rows
Dim btn As New Button
btn.BackColor = Color.White
btn.Text = row("BookingTime").ToString
btn.Width = buttonWidth
btn.Height = buttonHeight
btn.Location = New Point(x, y)
Me.Controls.Add(btn)
AddHandler btn.Click, Sub()
Dim frm As New Form
frm.Text = row("BookingDate").ToString & " " & row("BookingTime").ToString
frm.ClientSize = New Size(400, 200)
Dim lblBookingID As New Label
lblBookingID.Text = "Booking ID: " & row("BookingID").ToString
lblBookingID.Location = New Point(10, 30)
lblBookingID.AutoSize = True
lblBookingID.Font = New Font(lblBookingID.Font, FontStyle.Bold)
No issues found
Ln: 21 Ch: 9 SPC CRLF
Output
Show output from: Debug
'vets program.exe' (CLR v4.0.30319: vets program.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_64\System.Transactions\v4.0_4.0.0.
'vets program.exe' (CLR v4.0.30319: vets program.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_64\System.EnterpriseServices\v4.0_
'vets program.exe' (CLR v4.0.30319: vets program.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_64\System.EnterpriseServices\v4.0_
'vets program.exe' (CLR v4.0.30319: vets program.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\System.Numerics\v4.0_4.0.0.0_
The program '[1092] vets program.exe' has exited with code 4294967295 (0xffffffff).
Task Runner Explorer Error List Output
Solution Explorer
Search Solution Explorer (Ctrl+;)
Resources
App.config
Bookings.mdf
FrmAddCustomer.vb
FrmAddStaff.vb
FrmBookings.vb
FrmBookingsCal.vb
FrmBorras.vb
FrmCalendar.vb
FrmExistingCustomers.vb
FrmForgot.vb
FrmGatehouse.vb
FrmHistory.vb
Properties
Ready
Add to Source Control
Select Repository
Search
15:09
14/04/2023


File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
Search (Ctrl+Q)
vets program
Debug
Any CPU
Start
Live Share
FrmCalendar.vb
FrmCalendar.vb [Design]
FrmBorras.vb
FrmBorras.vb [Design]
FrmLavister.vb
vets program
(FrmCalendar Events)
Load
Dim lblCustomerID As New Label
lblCustomerID.Text = "Customer ID: " & row("CustomerID").ToString
lblCustomerID.Location = New Point(10, 50)
lblCustomerID.AutoSize = True
lblCustomerID.Font = New Font(lblCustomerID.Font, FontStyle.Bold)
frm.Controls.Add(lblCustomerID)
Dim lblOwnerName As New Label
lblOwnerName.Text = "Owner Name: " & row("OwnerName").ToString
lblOwnerName.Location = New Point(10, 70)
lblOwnerName.AutoSize = True
lblOwnerName.Font = New Font(lblOwnerName.Font, FontStyle.Bold)
frm.Controls.Add(lblOwnerName)
Dim lblAnimalName As New Label
lblAnimalName.Text = "Animal Name: " & row("AnimalName").ToString
lblAnimalName.Location = New Point(10, 90)
lblAnimalName.AutoSize = True
lblAnimalName.Font = New Font(lblAnimalName.Font, FontStyle.Bold)
frm.Controls.Add(lblAnimalName)
Class System.String
Represents text as a sequence of UTF-16 code units.
Dim lblProcedureType As New Label
lblProcedureType.Location = New Point(10, 110)
lblProcedureType.AutoSize = True
lblProcedureType.Font = New Font(lblProcedureType.Font, FontStyle.Bold)
frm.Controls.Add(lblProcedureType)
No issues found
Ln: 21 Ch: 9 SPC CRLF
Output
Show output from: Debug
'vets program.exe' (CLR v4.0.30319: vets program.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_64\System.Transactions\v4.0_4.0.0.
'vets program.exe' (CLR v4.0.30319: vets program.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_64\System.EnterpriseServices\v4.0_
'vets program.exe' (CLR v4.0.30319: vets program.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_64\System.EnterpriseServices\v4.0_
'vets program.exe' (CLR v4.0.30319: vets program.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\System.Numerics\v4.0_4.0.0.0_
The program '[1092] vets program.exe' has exited with code 4294967295 (0xffffffff).
Task Runner Explorer Error List Output
Solution Explorer
Search Solution Explorer (Ctrl+;)
Resources
App.config
Bookings.mdf
FrmAddCustomer.vb
FrmAddStaff.vb
FrmBookings.vb
FrmBookingsCal.vb
FrmBorras.vb
FrmCalendar.vb
FrmExistingCustomers.vb
FrmForgot.vb
FrmGatehouse.vb
FrmHistory.vb
Properties
Ready
Add to Source Control
Select Repository
Search
15:09
14/04/2023



Test group 8 – Make a booking form

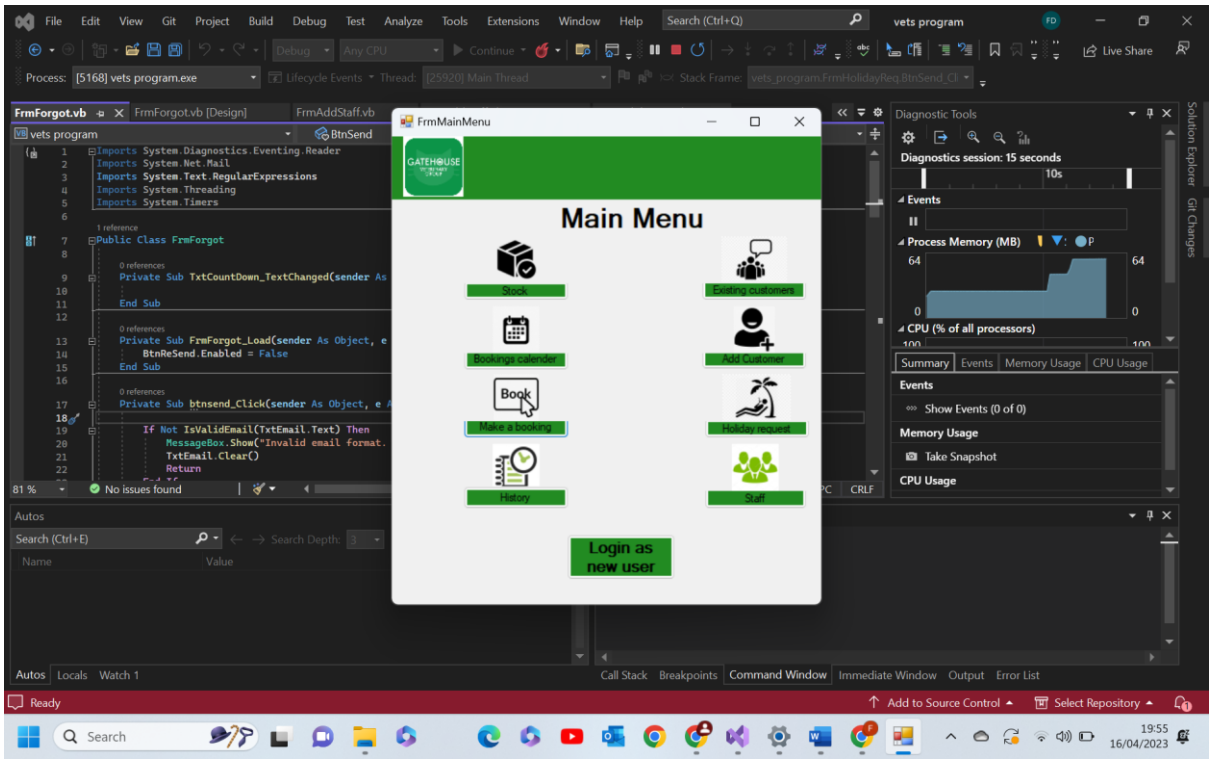
Disclaimer- for all tests that need the 'Customer ID' text box to be filled we will be using the data '123' as that is a valid customer ID.

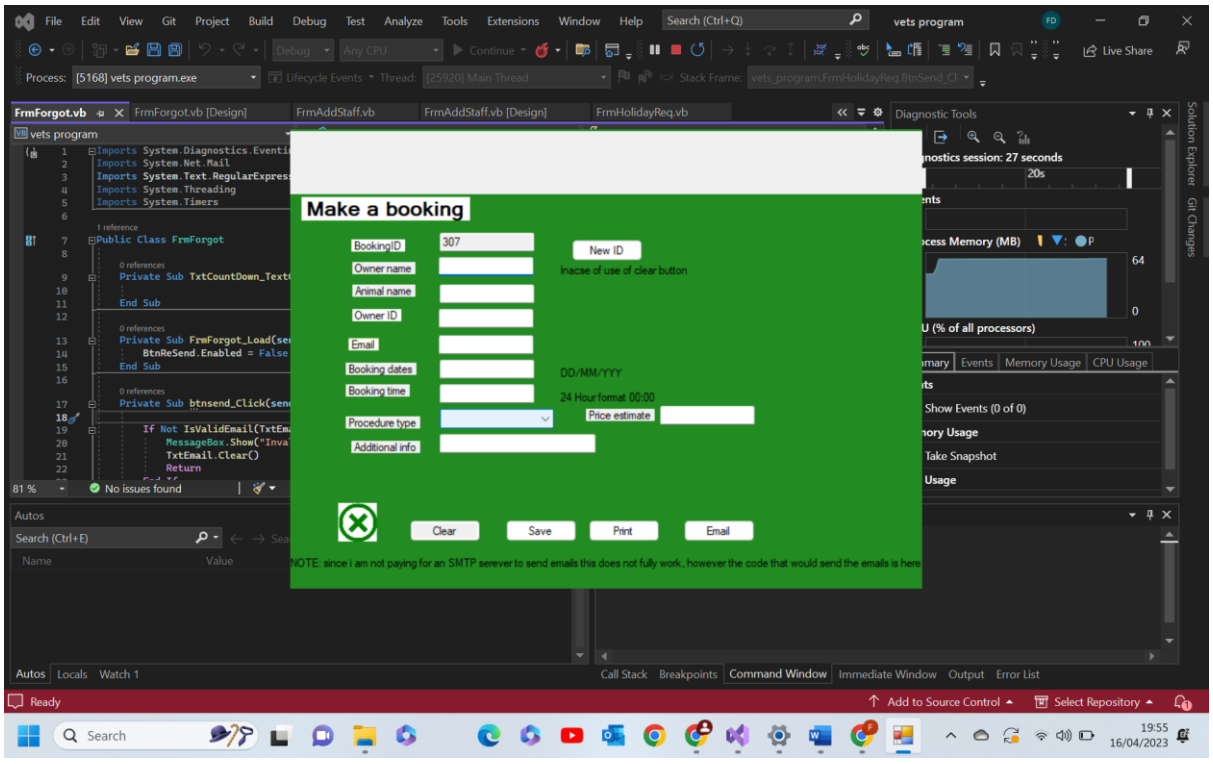
Test number	Test data	Actual outcome	Verdict	Comment
1	Functional test Valid circumstances Form loaded	As expected a random three digit number appeared in the text box on loading of form	Pass	N/A
2	Functional test New ID button pressed	As expected a new three digit number appeared in the text box, if a number was already in there it was written over, if not a number appeared in the blank text box	Pass	Possibly leave the new ID button as read only unless the original programmatically generated ID has been cleared to avoid mistakes or confusion
3	Valid circumstances Form loaded	As expected when the form was loaded the Booking ID was read only.	Pass	N/A
4	Extreme as box was left empty	As expected an appropriate message box appeared warning the	Pass	N/A

		user of the issue with instructions for its correction		
5	**Extreme as box was left empty**	**As expected an appropriate message box appeared warning the user of the issue with instructions for its correction**	**Pass**	**N/A**
6	**Extreme as box was left empty**	**As expected an appropriate message box appeared warning the user of the issue with instructions for its correction**	**Pass**	**N/A**
7	**Invalid data used Specifically 2003-2001;09**	**As expected an appropriate message box appeared warning the user of the issue with instructions for its correction**	**Pass**	**A additional presence check for these two may have been beneficial**
8	**Invalid data used Specifically 900-00**	**As expected an appropriate message box appeared warning the user of the issue with instructions for its correction**	**Pass**	**A additional presence check for these two may have been beneficial**
9	**Functional test**	**As expected as the program loads it reads the pre-determined procedures from the access database and writes them to separate rows of the combo box**	**Pass**	**N/A**
10	**Functional test with valid data Data used is the word 'Test' in each box where that is**	**As expected, if all the text boxes passed their respective validation checks, the**	**Pass**	**N/A**

	accepted. In the dates and time 03/03/2025 and 12:00 respectively have been chosen	**program reads the info and writes it all to a new row In the appropriate table in the access database**		
11	**Functional test with valid data**	**As expected a smaller form appeared letting the user select the printer they wished to use and how many copies ext.**	**Pass**	**N/A**
12	**Physical test of outputted matter**	**The form was printed in the expected format as shown below in the screenshots for test 8.12**	**Pass**	**The recipe could have been modelled to look closer to an actual recipe however its good enough for our purposes.**
13	**Functional test with valid data**	**As expected a message box appeared explain the lack of a paid server has stopped it from being able to complete its function however it would work if the server was paid for**	**Pass**	**N/A**
14	**Functional test**	**All text boxes became void of data**	**Pass**	**N/A**
15	**Functional test**	**The current from closed and the main menu form appeared**	**Pass**	**N/A**
16	**Functional test**	**As expected when a procedure was selected in the combo box a corresponding price estimate appeared in the text box parallel to it**	**Pass**	**N/A**

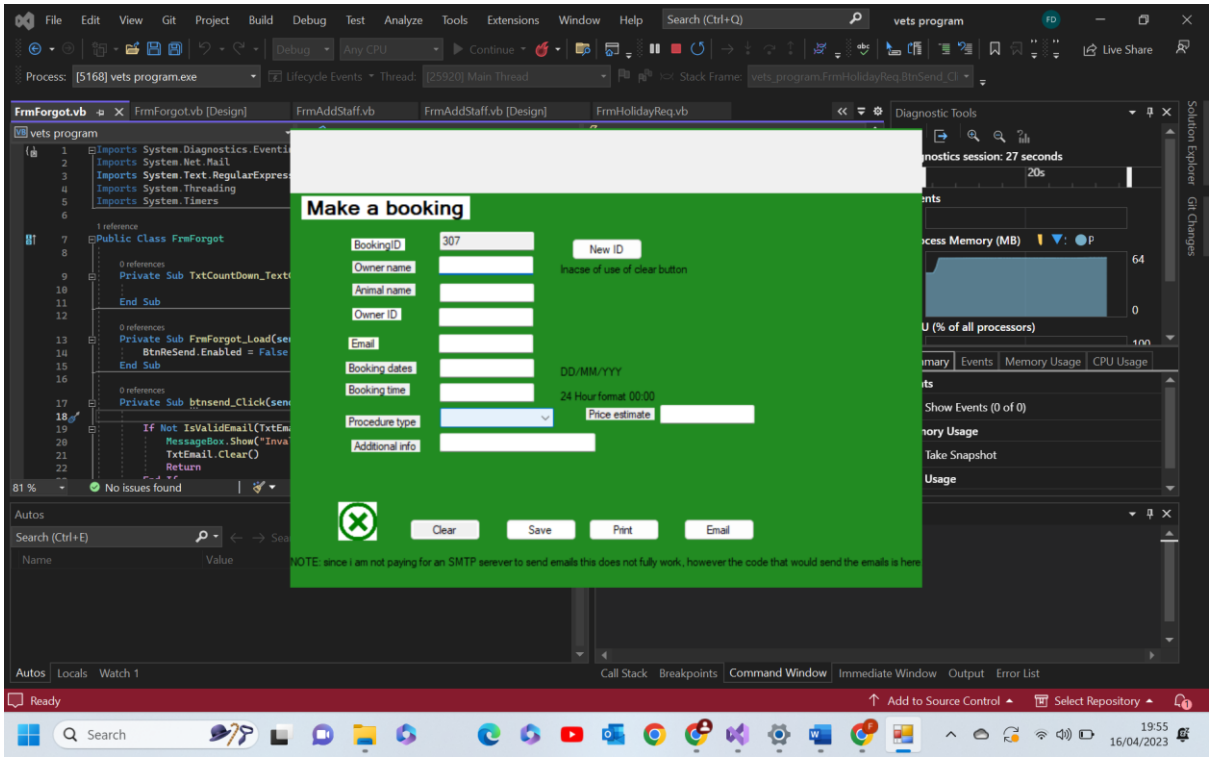
8.1-

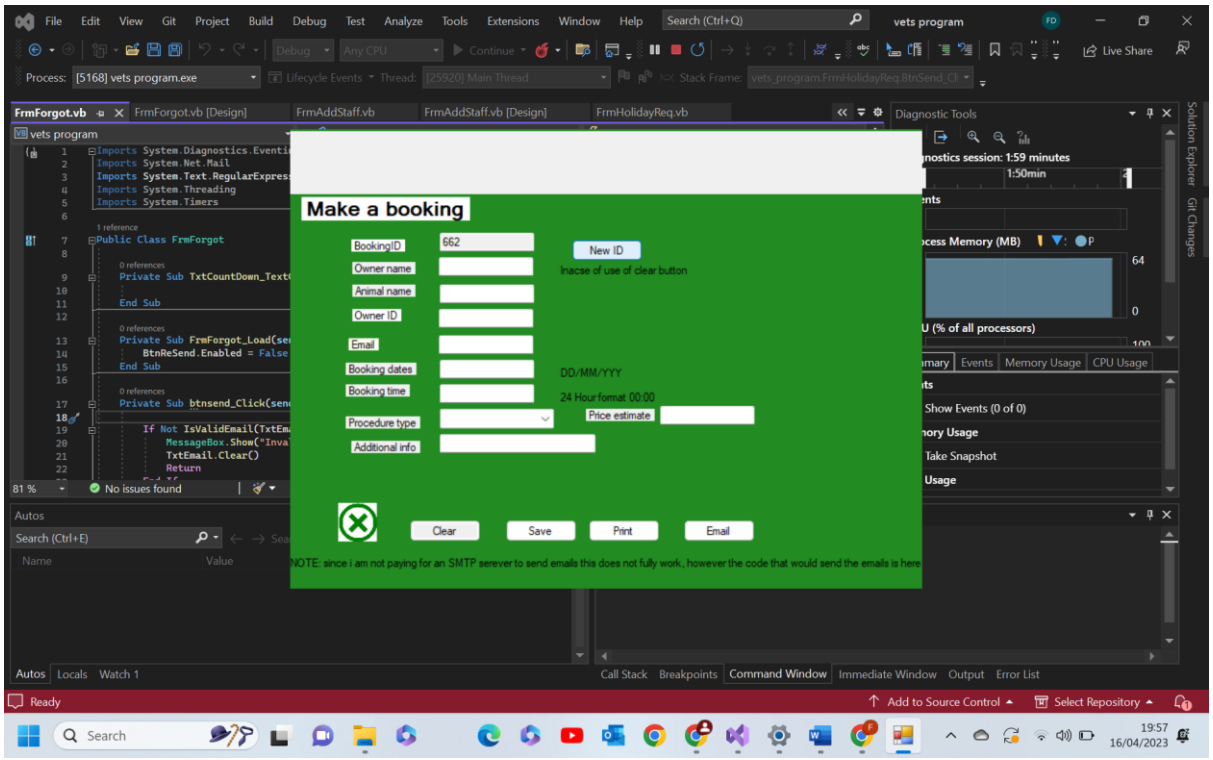




Test 8.1 comments- as we can see above when the make a booking picture box or button is selected on the main menu page and the make a booking form is loaded a random ID is generated. Pass

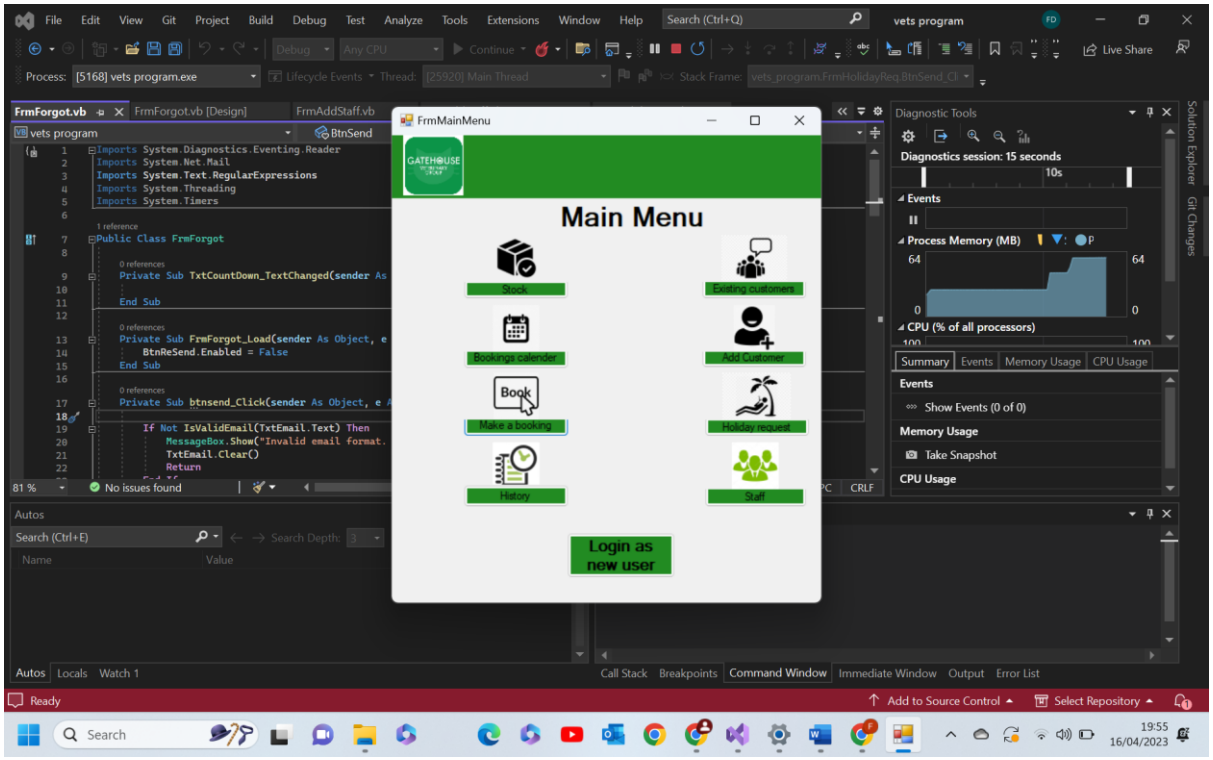
8.2-

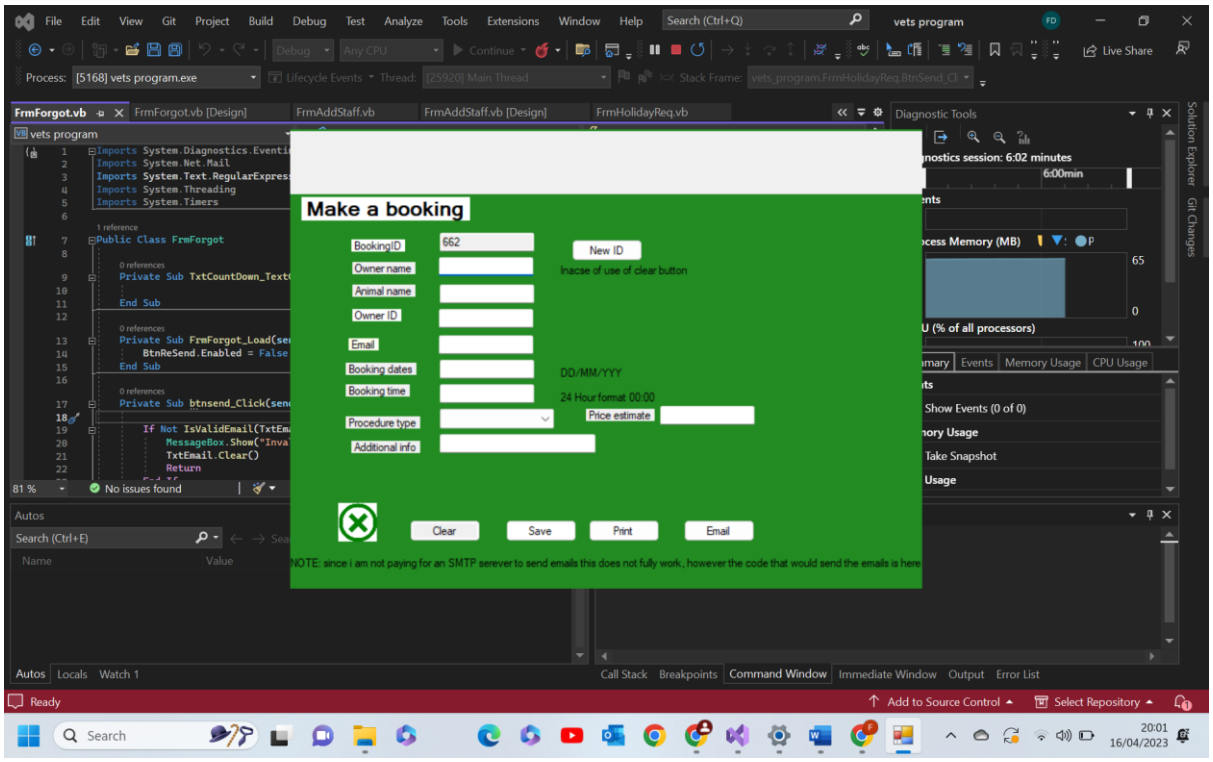




Test 8.2 comments- In the above I have pressed the new ID button. As we can see it has changed the ID from 307 to 662, one random three digit number to a new random three digit number. Pass

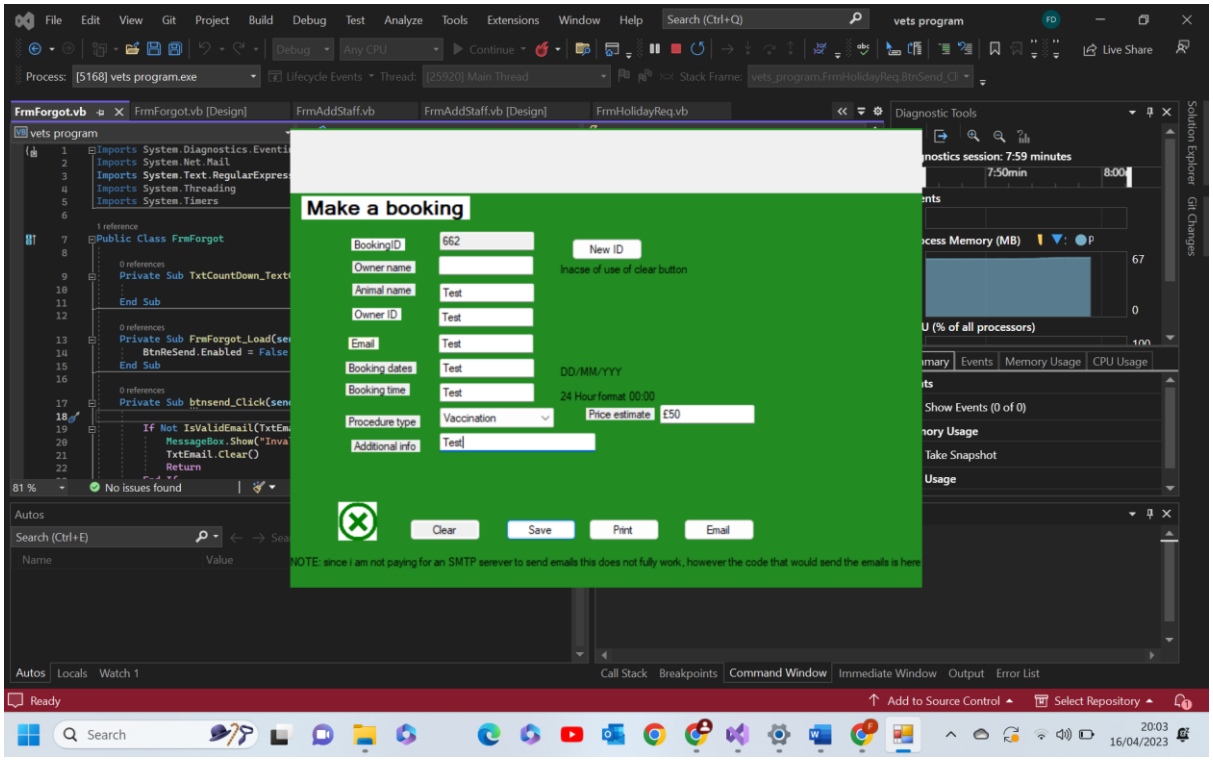
8.3-

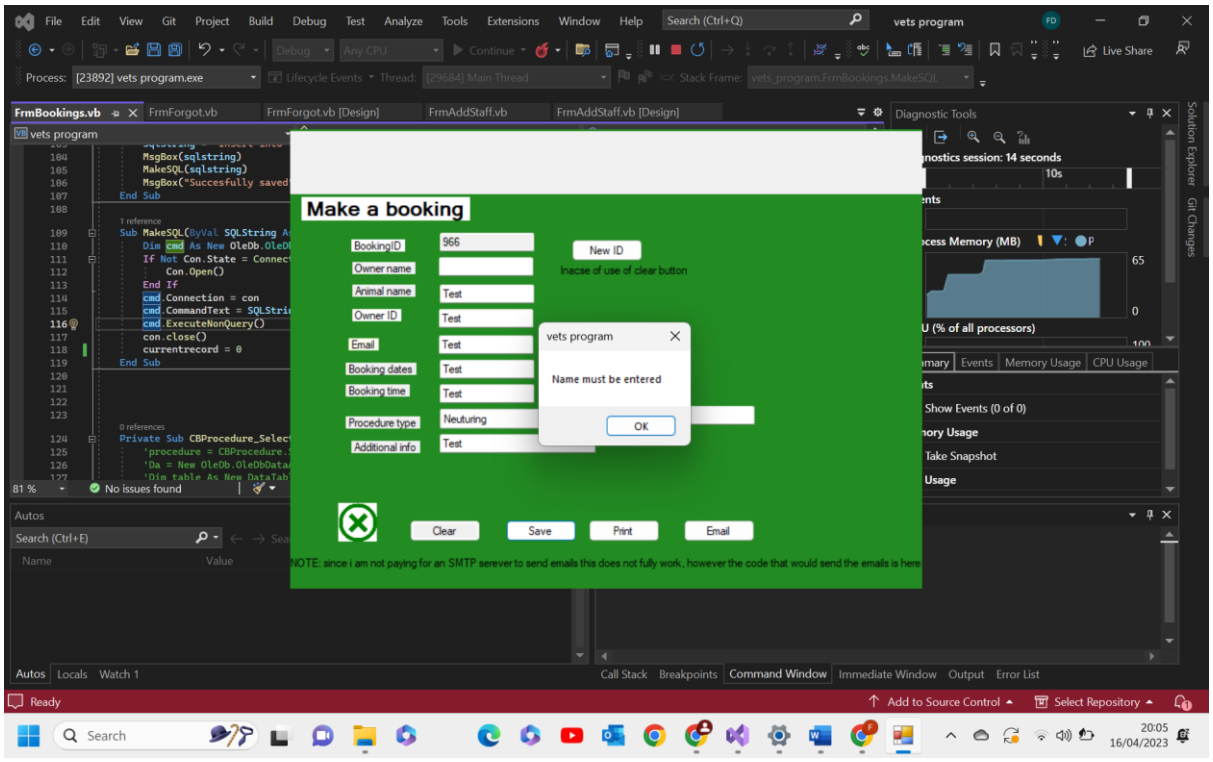




Test 8.3 comments- as we can see as the form loads the booking ID text box is a slightly darker shade of grey. This indicates that it is in fact read only, ensuring no one can tamper with the Booking ID. Pass

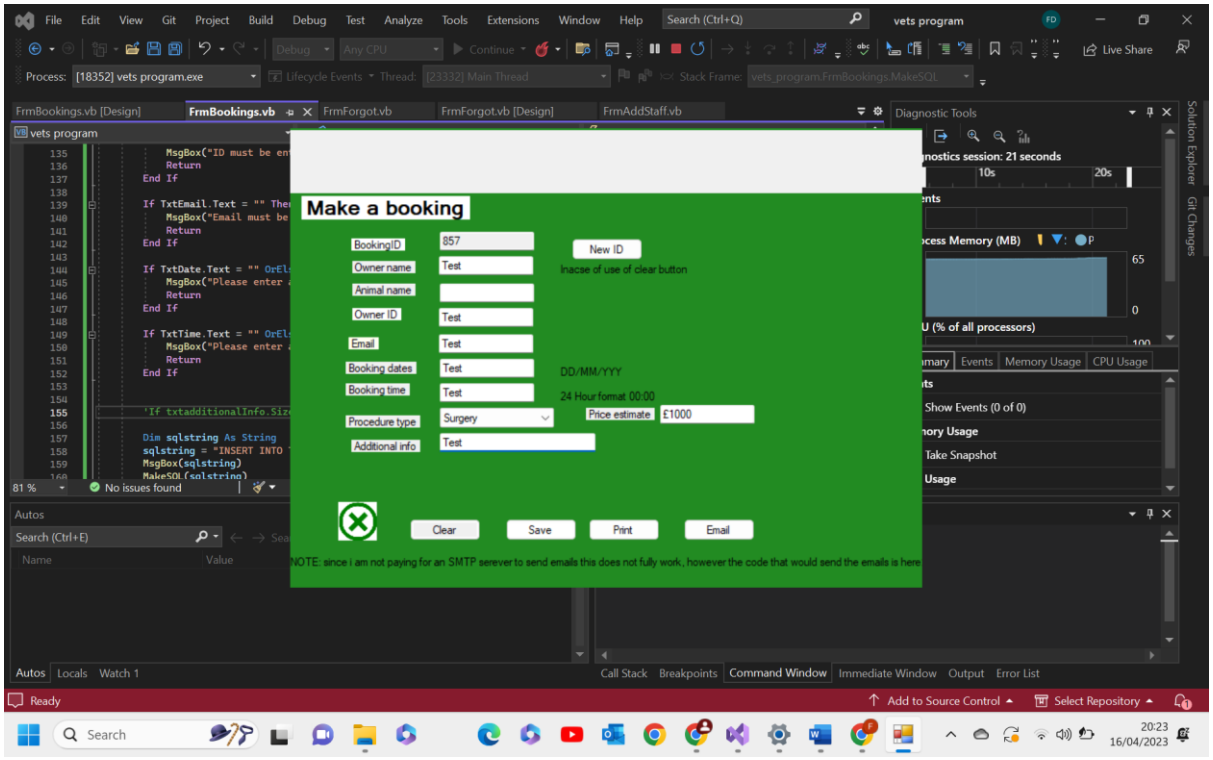
8.4-

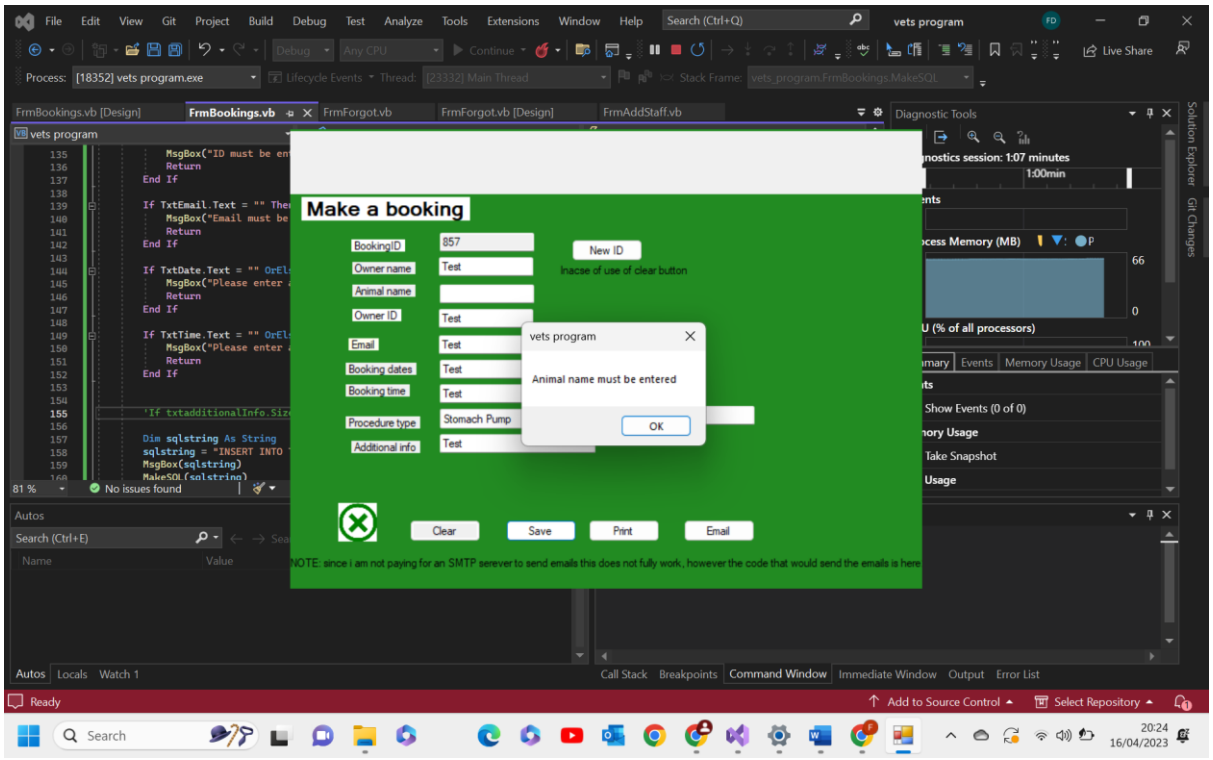




Test 8.4 comments- as expected the program recognises the lack of data and outputs an appropriate message box and doesn't allow for the data to be saved. Pass

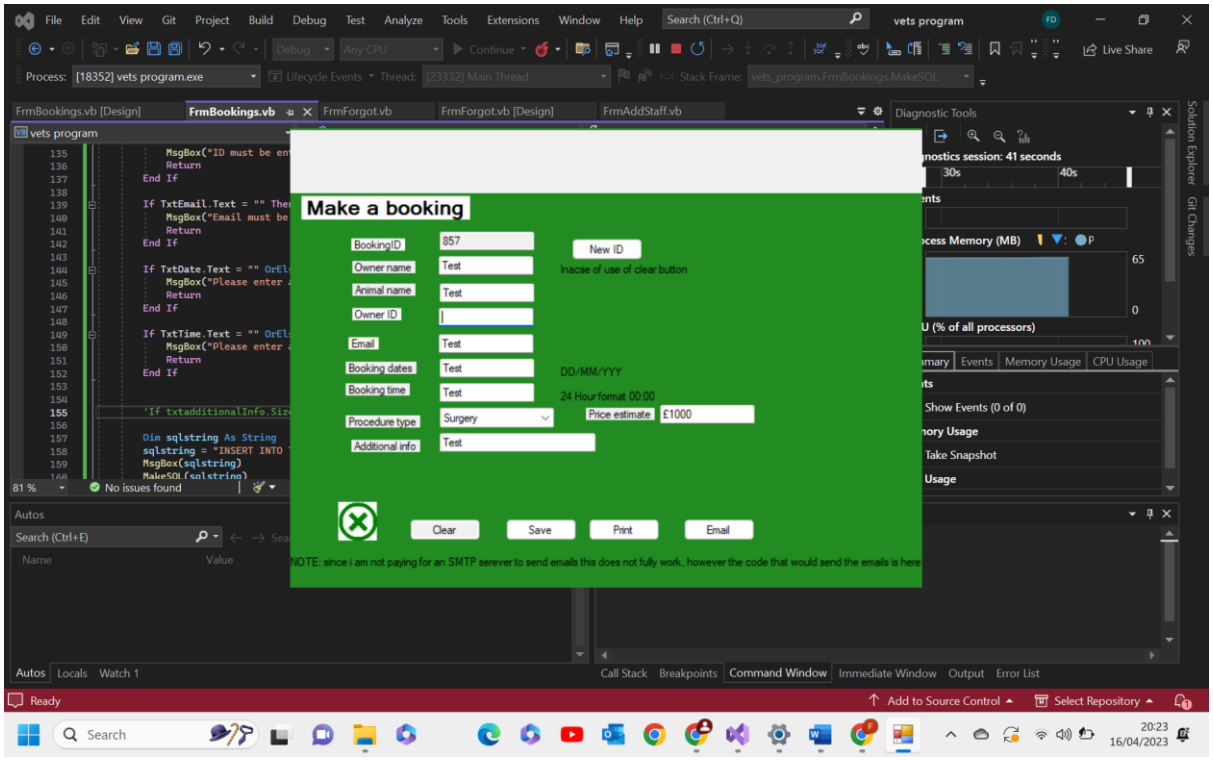
8.5-

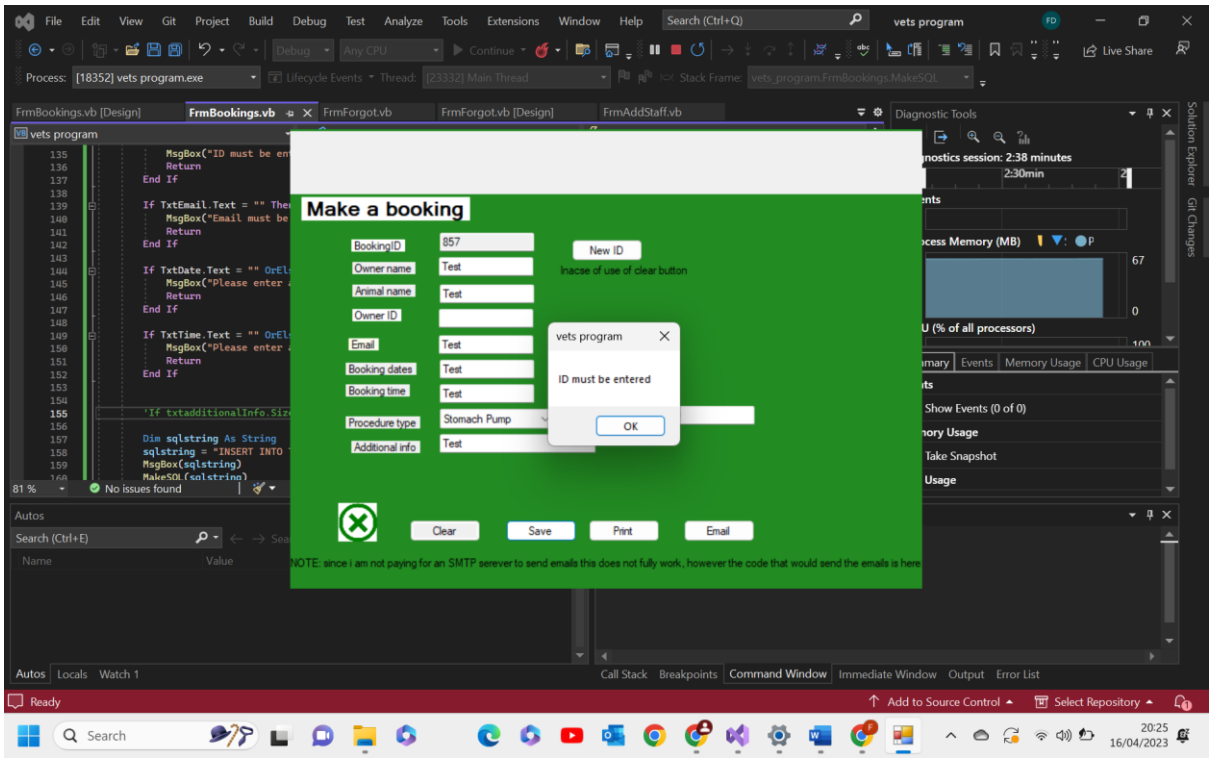




Test 8.5 comments- as expected the program recognises the lack of data and outputs an appropriate message box and doesn't allow for the data to be saved. Pass

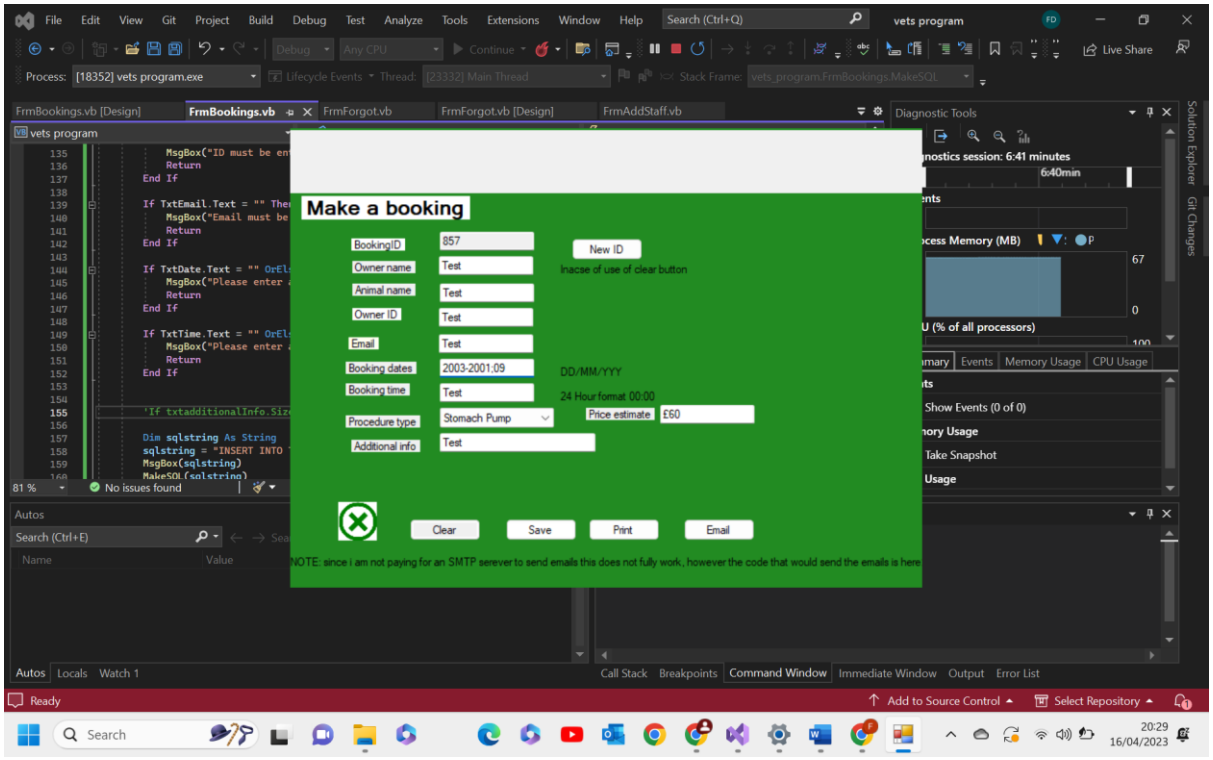
8.6-

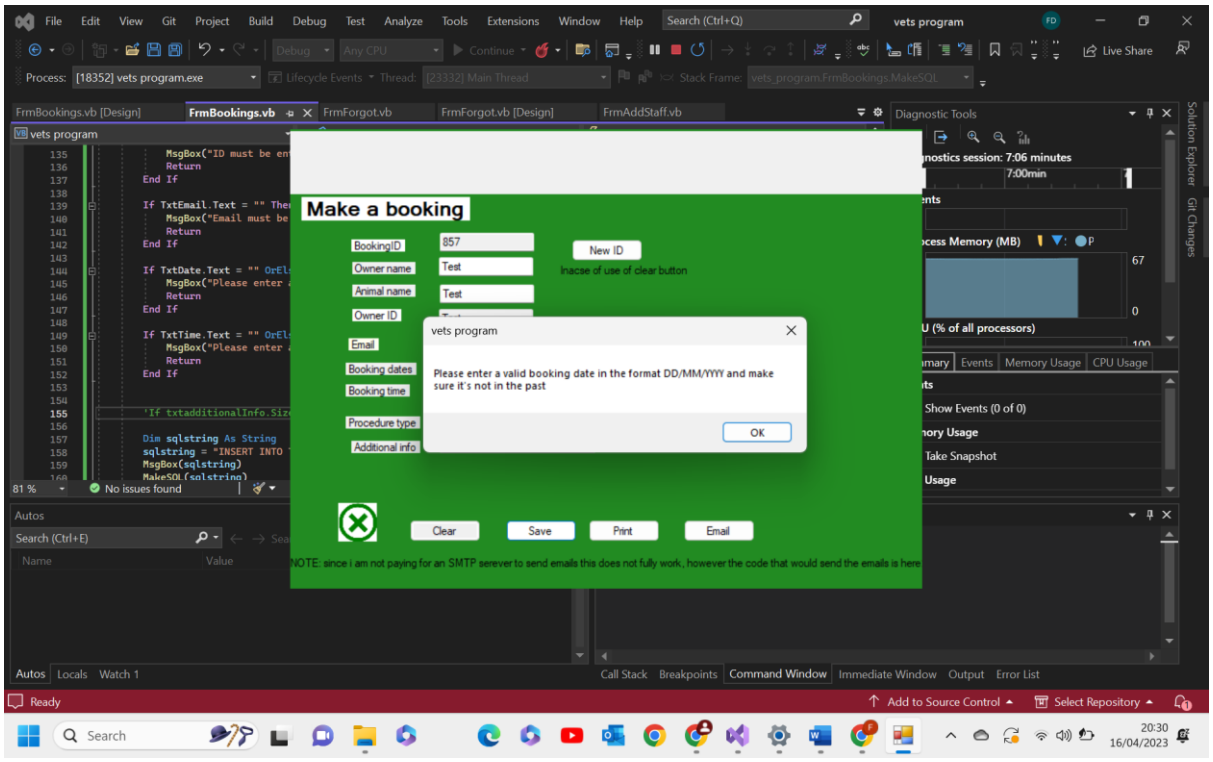




Test 8.6 comments- - as expected the program recognises the lack of data and outputs an appropriate message box and doesn't allow for the data to be saved. Pass

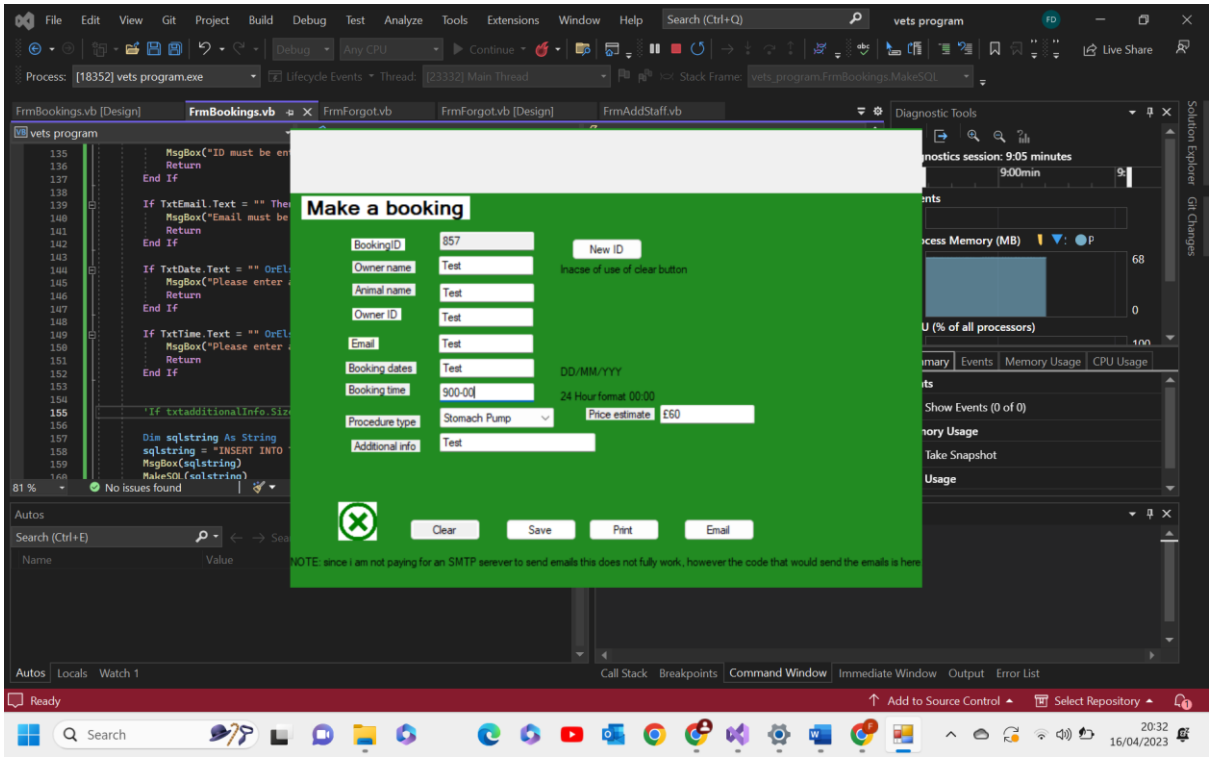
8.7-

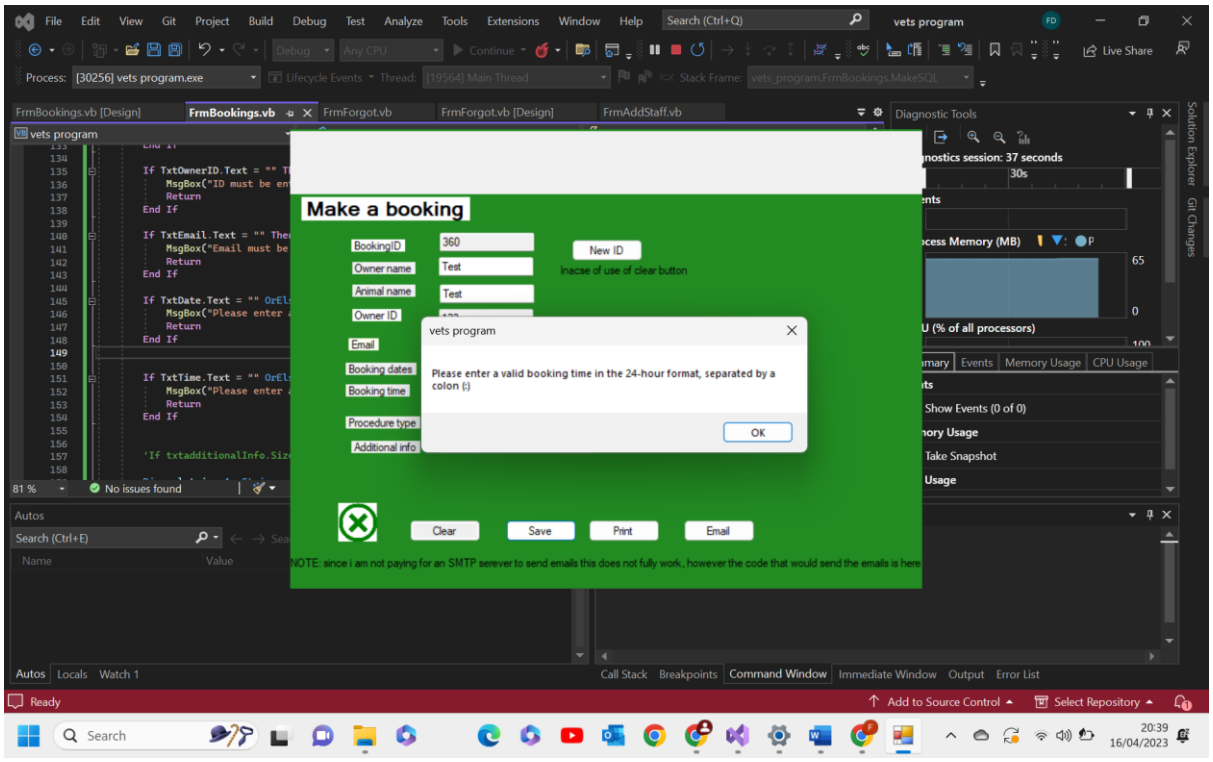




Test 8.7 comments- as expected the program recognised it did not follow the DD/MM/YYYY format and so that date failed its format check validation type, a message box was outputted by the program and the data was not saved. Pass

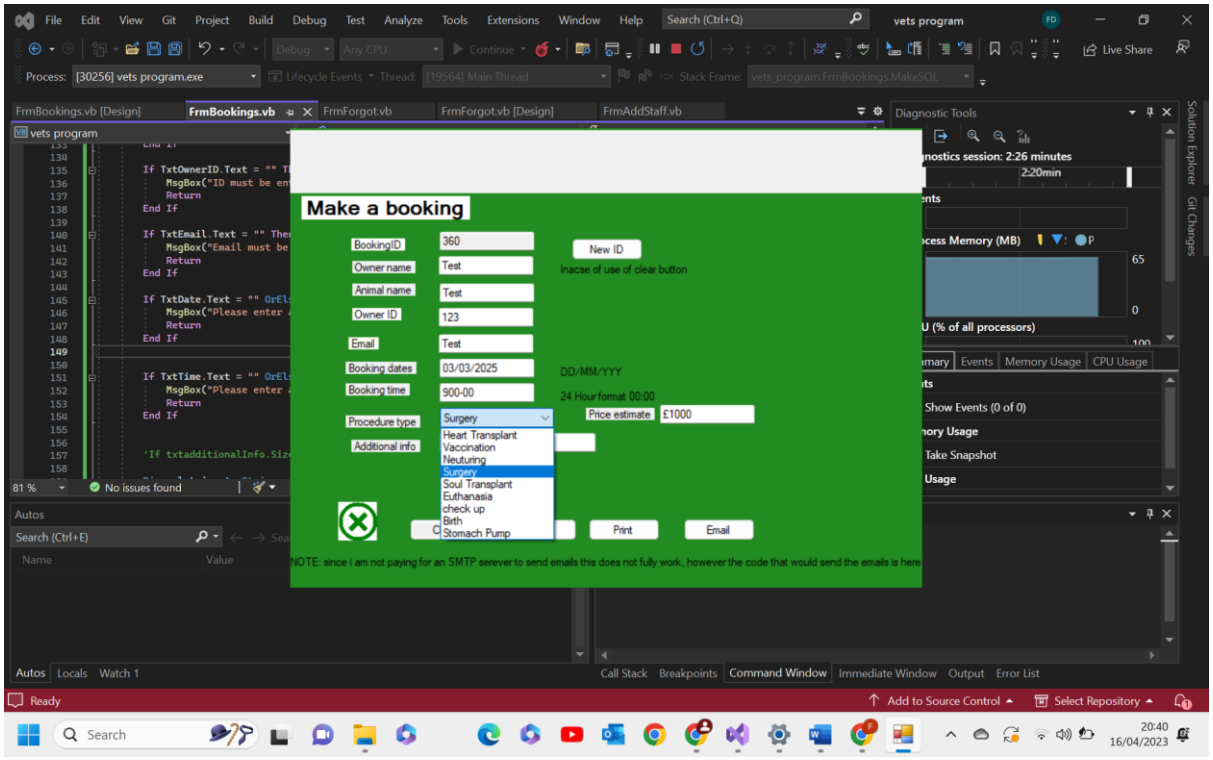
8.8-





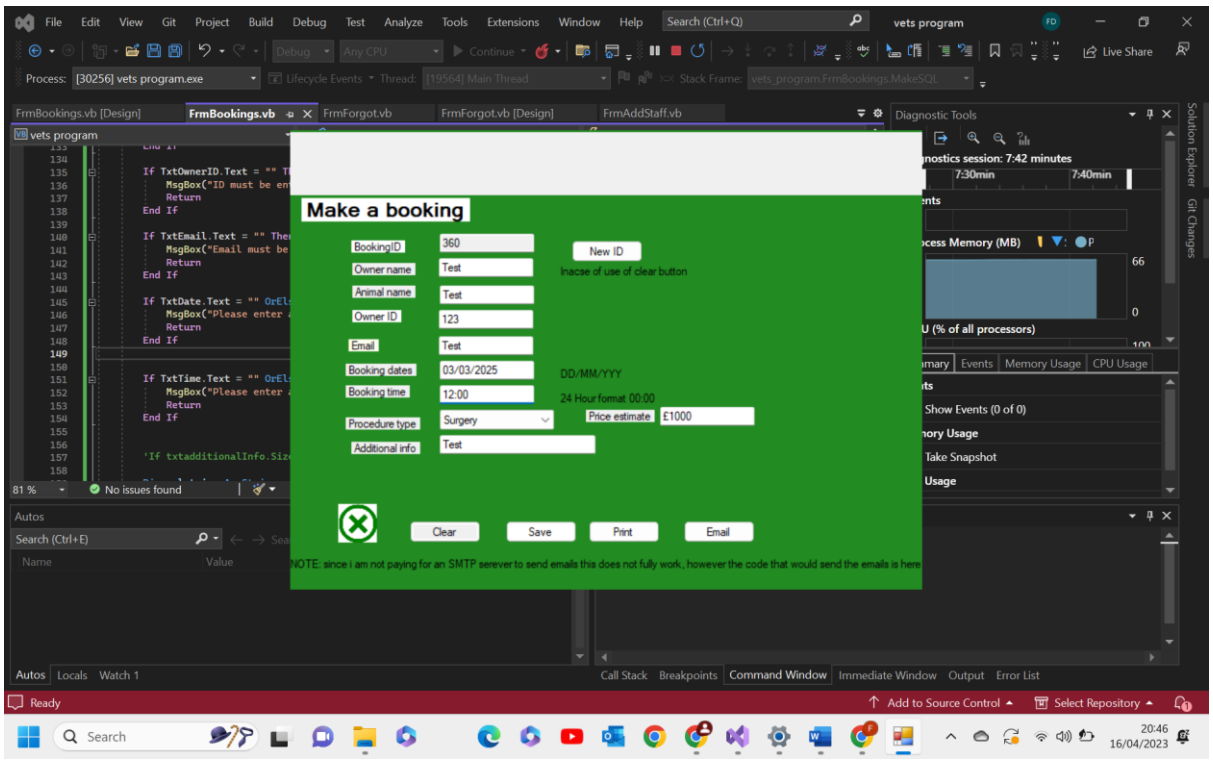
Test 8.8 comments- as we can see above the format check was not passed due to the invalid data, as a result of this the program did not allow for the data to be saved and outputted a message box warning. Pass

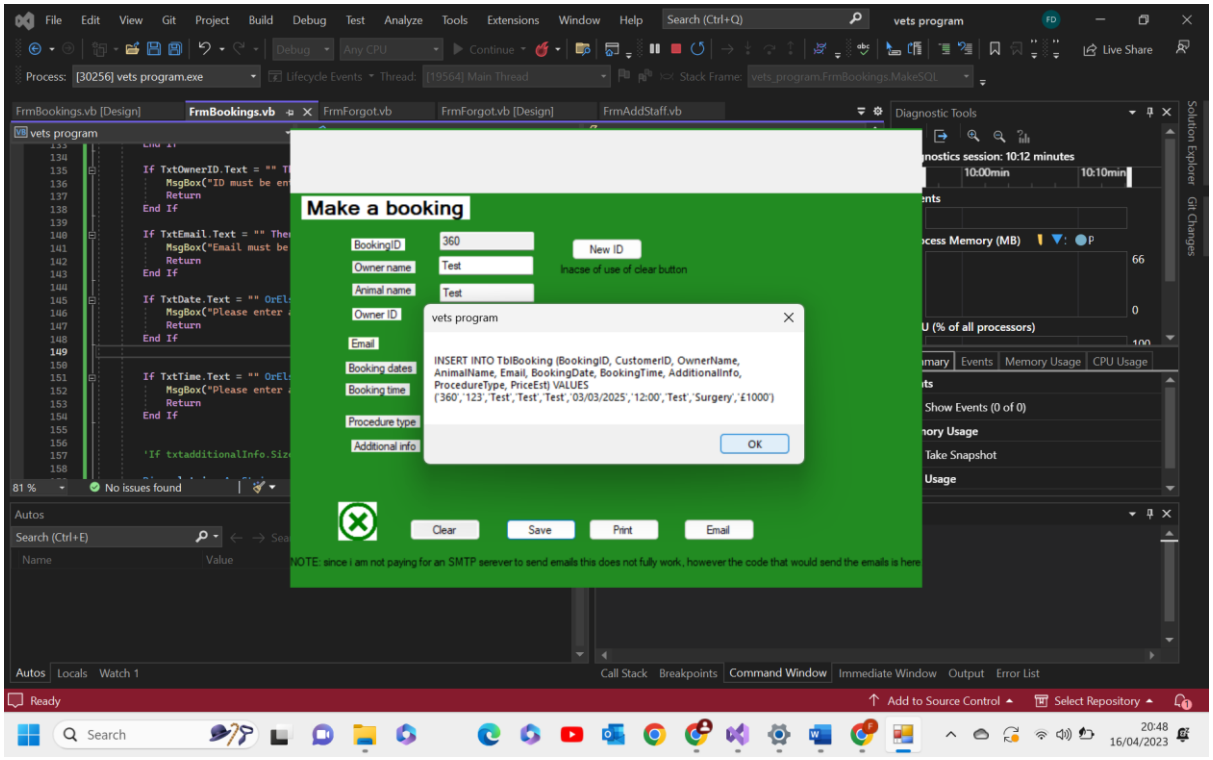
8.9-



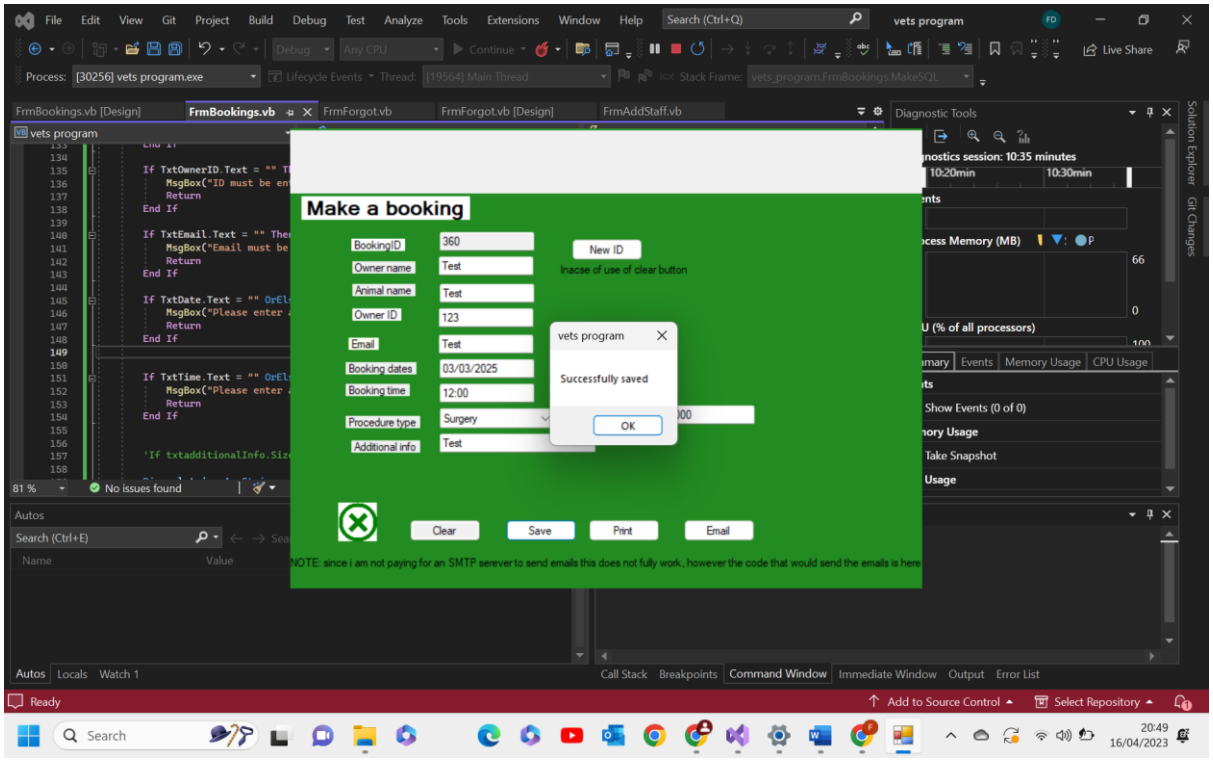
Test 8.9 comments- As we can see here the program has been loaded and so the values in the table designated for storing procedure information have been written into the combo box. Pass

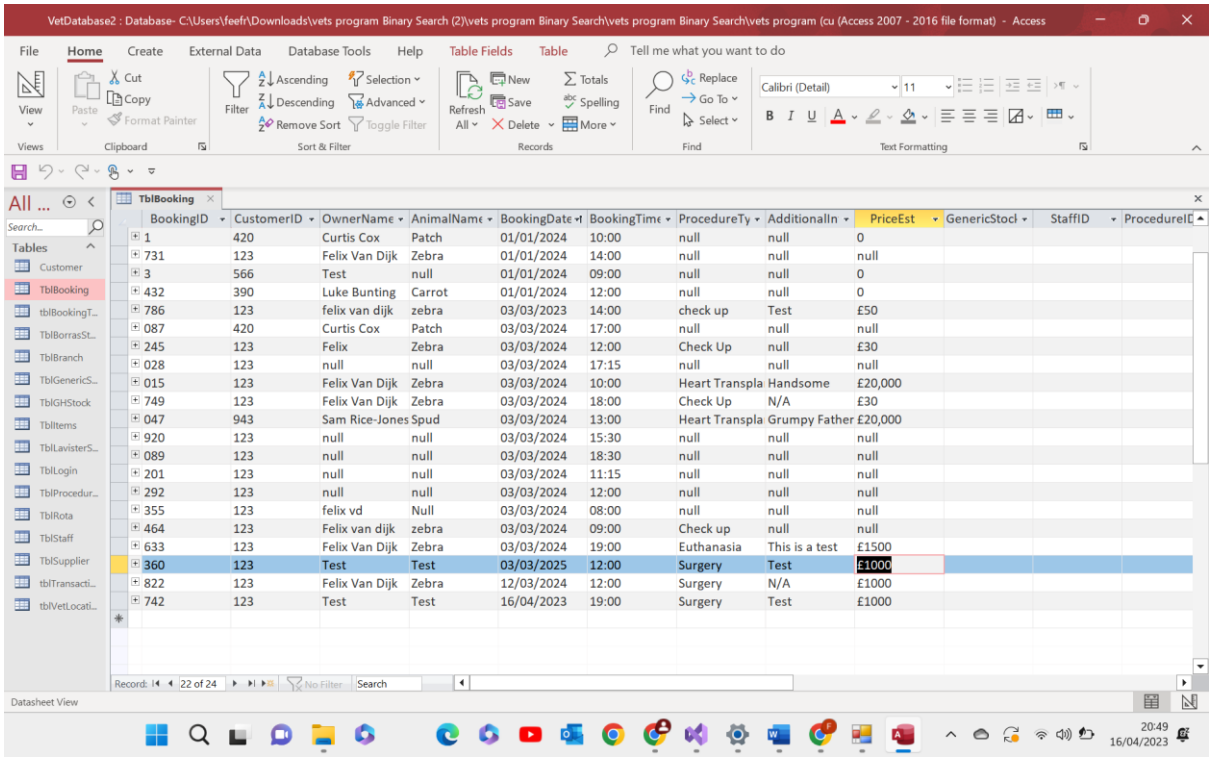
8.10-





Show what will be saved

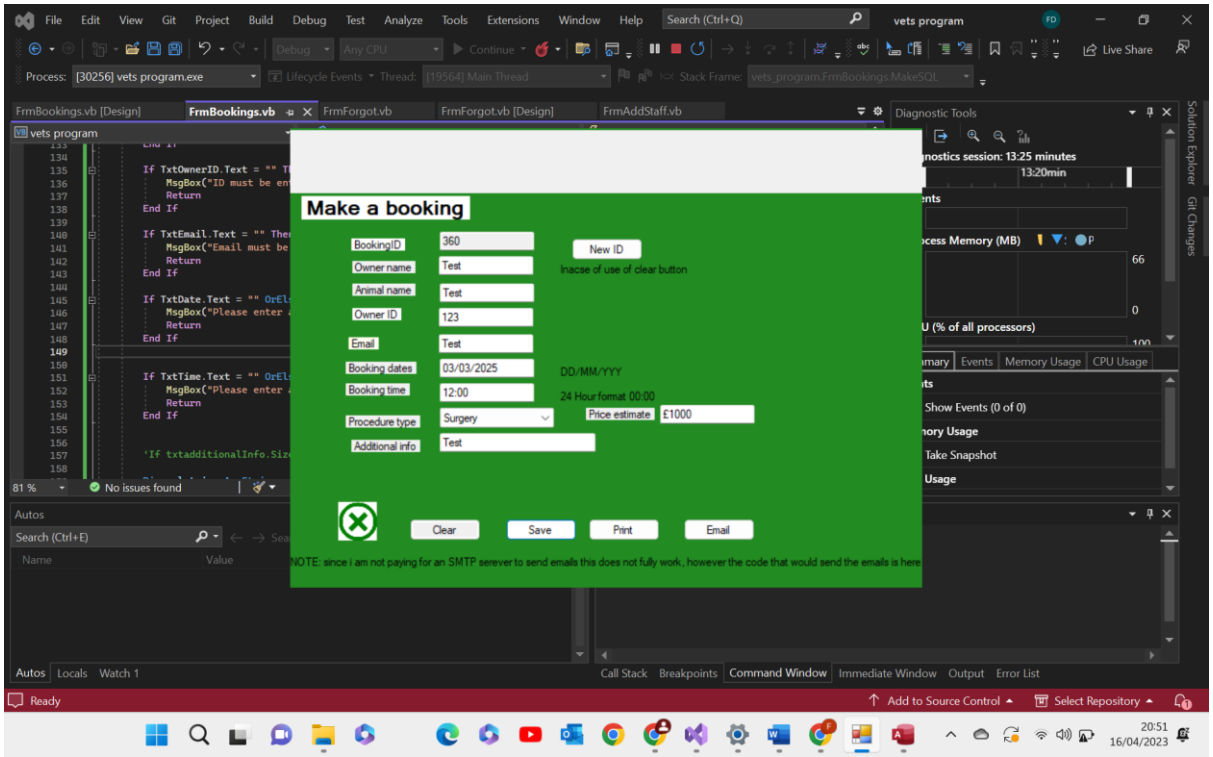


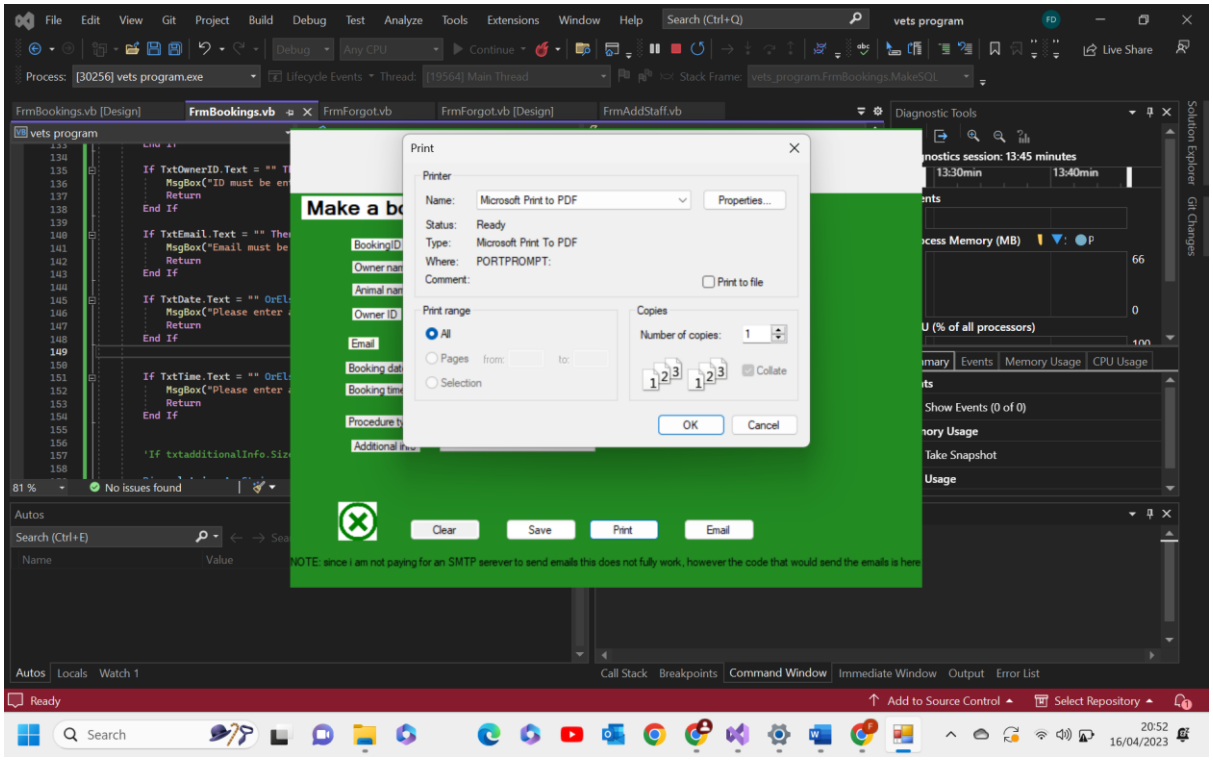


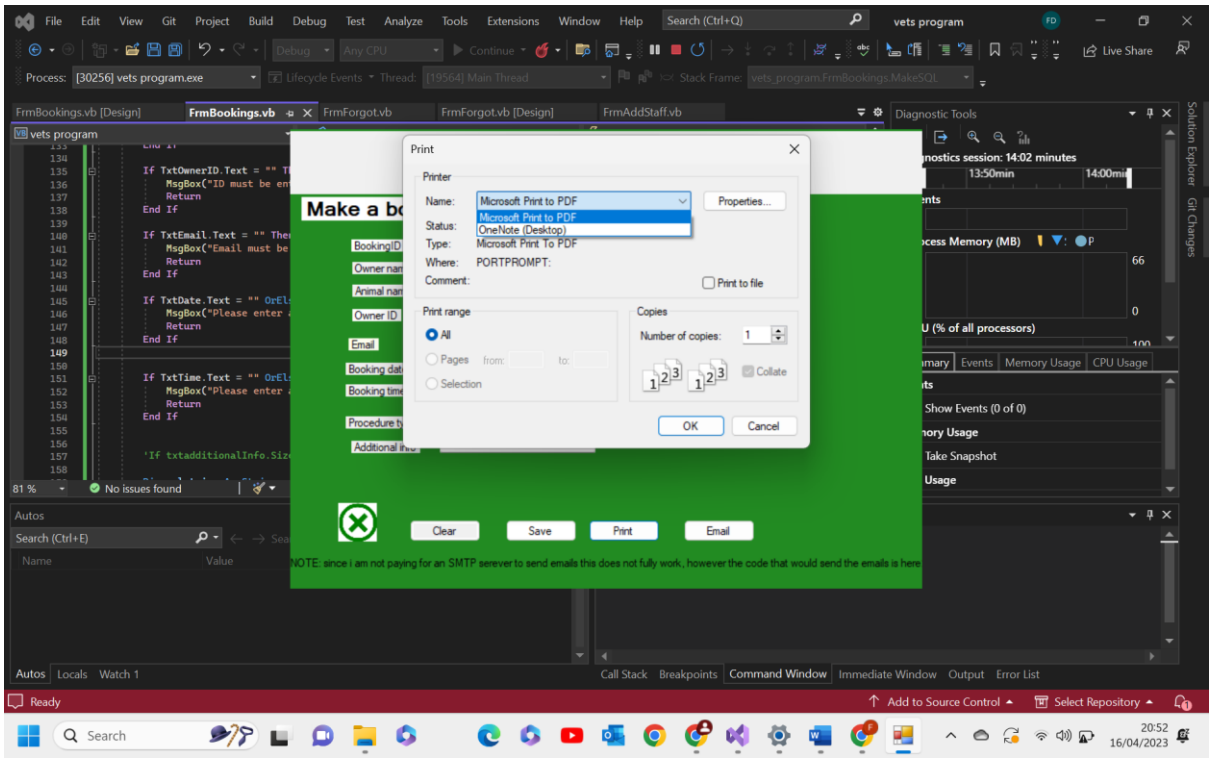
Proof it was written to the database. The highlighted row is the one we just saved.

Test 8.10 comments- as we can see when valid data is entered and all type of validation checks are passed, both presence and format, the data is written from the text boxes into the appropriate correlating table in the database where it is saved. Pass

8.11-



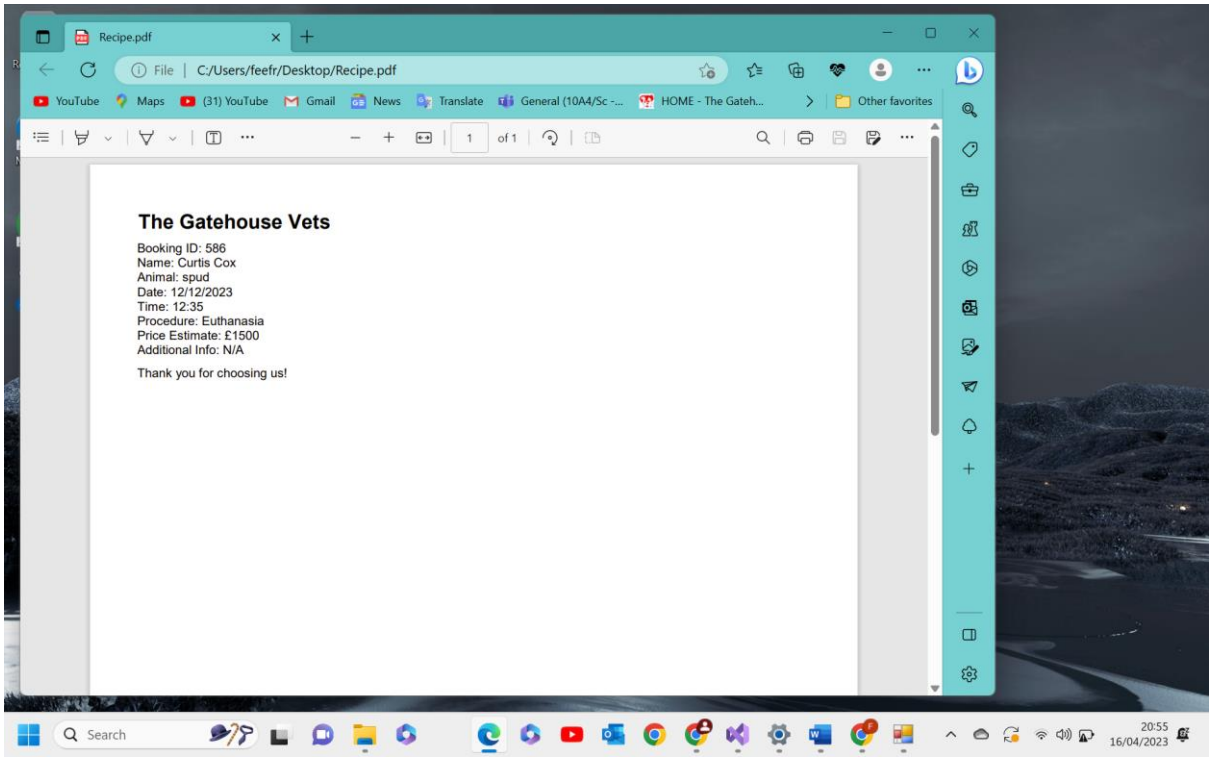




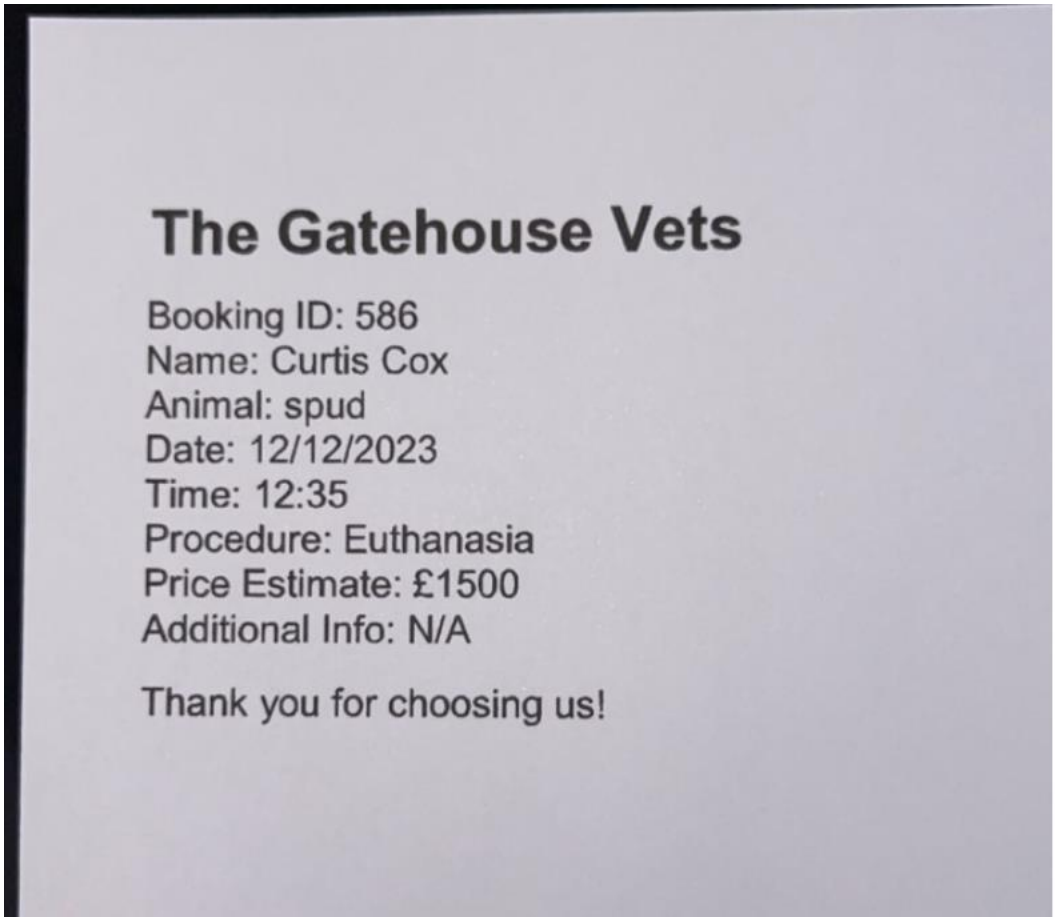
the above is where you could select a printer given there was one turned on and in range.

Test 8.11- as we can see above the print function works as expected. A smaller form appears letting the user choose printer, number of copies ext. this then prints the data in the text boxes. Pass

8.12-

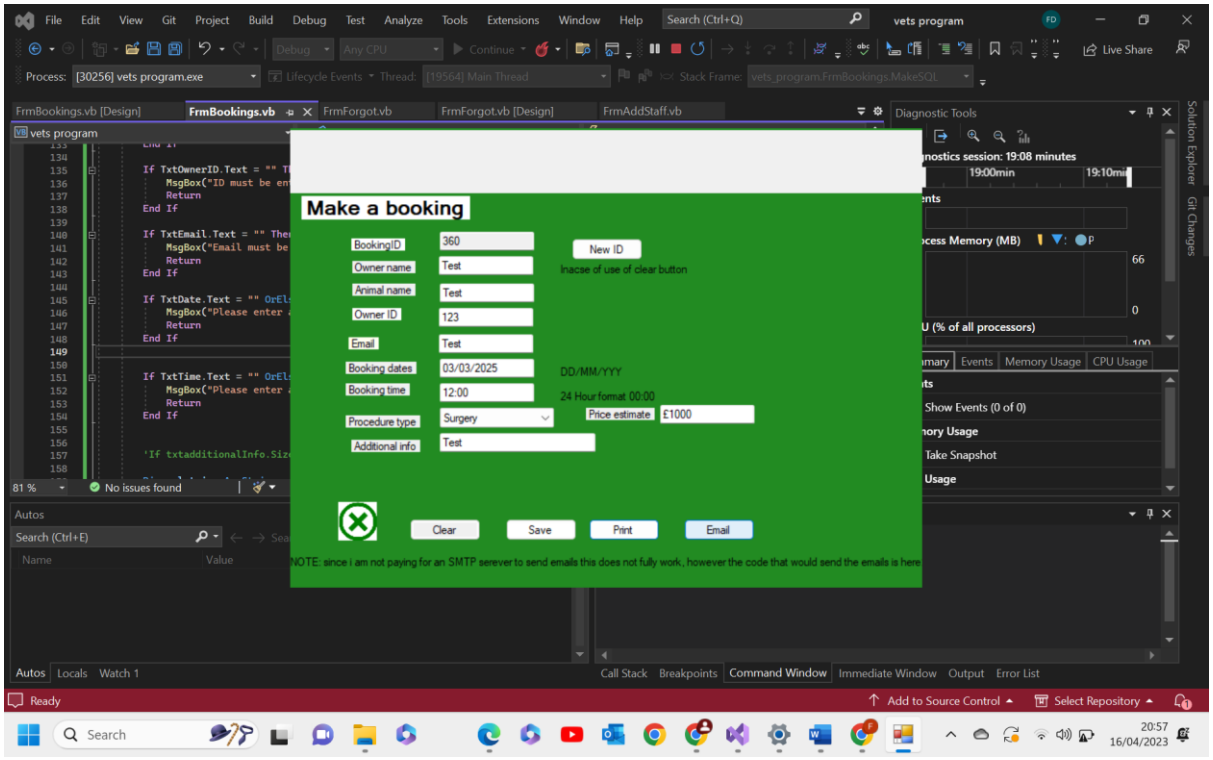


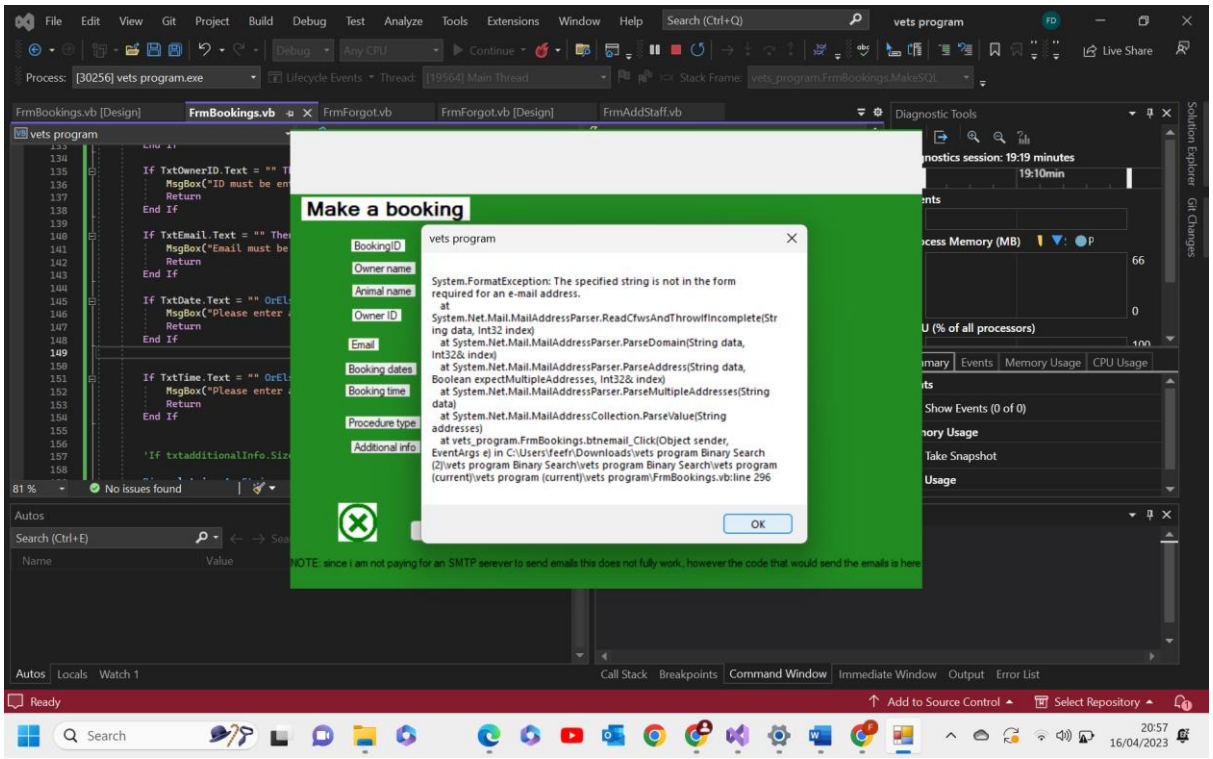
The above is an example of what a recipe looks like if the user chooses to save as a pdf instead of print a physical copy. The below is a picture of a physical copy.



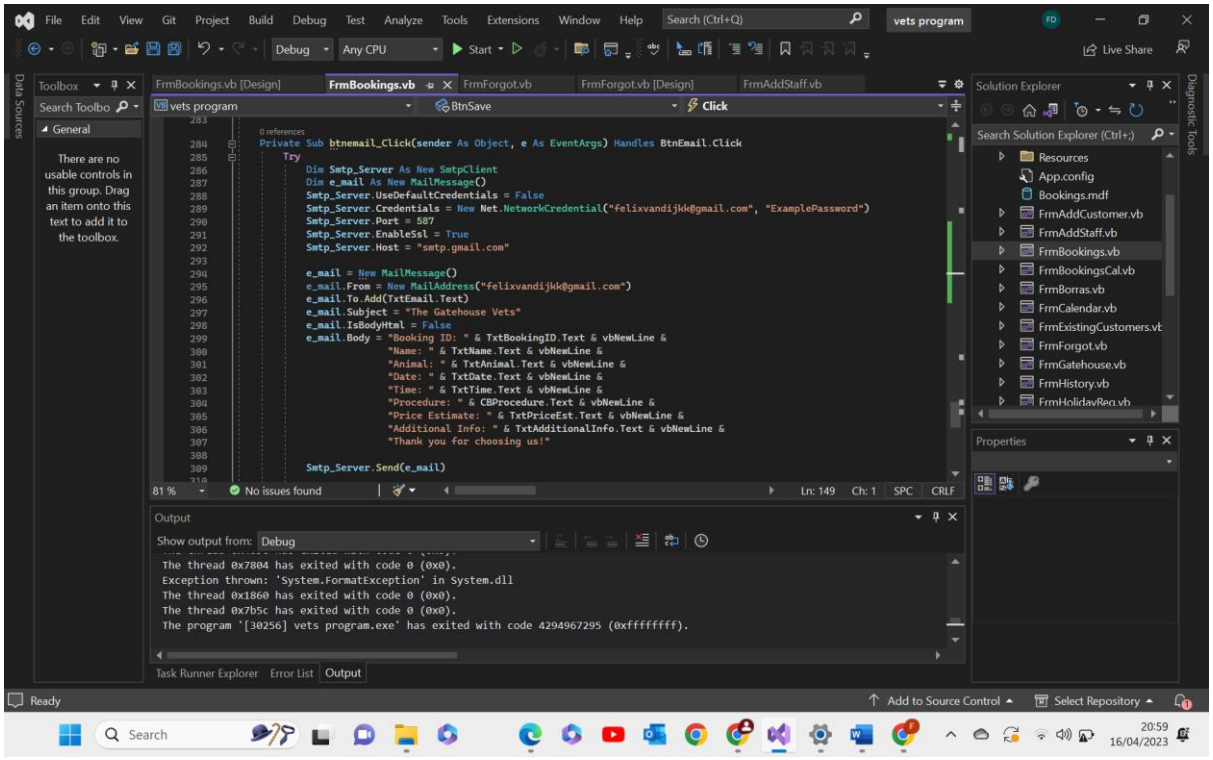
Test 8.12 comments- as we can see the recipe is in the format intended, the header at the top followed by the information in the text boxes and a thank you message. Pass

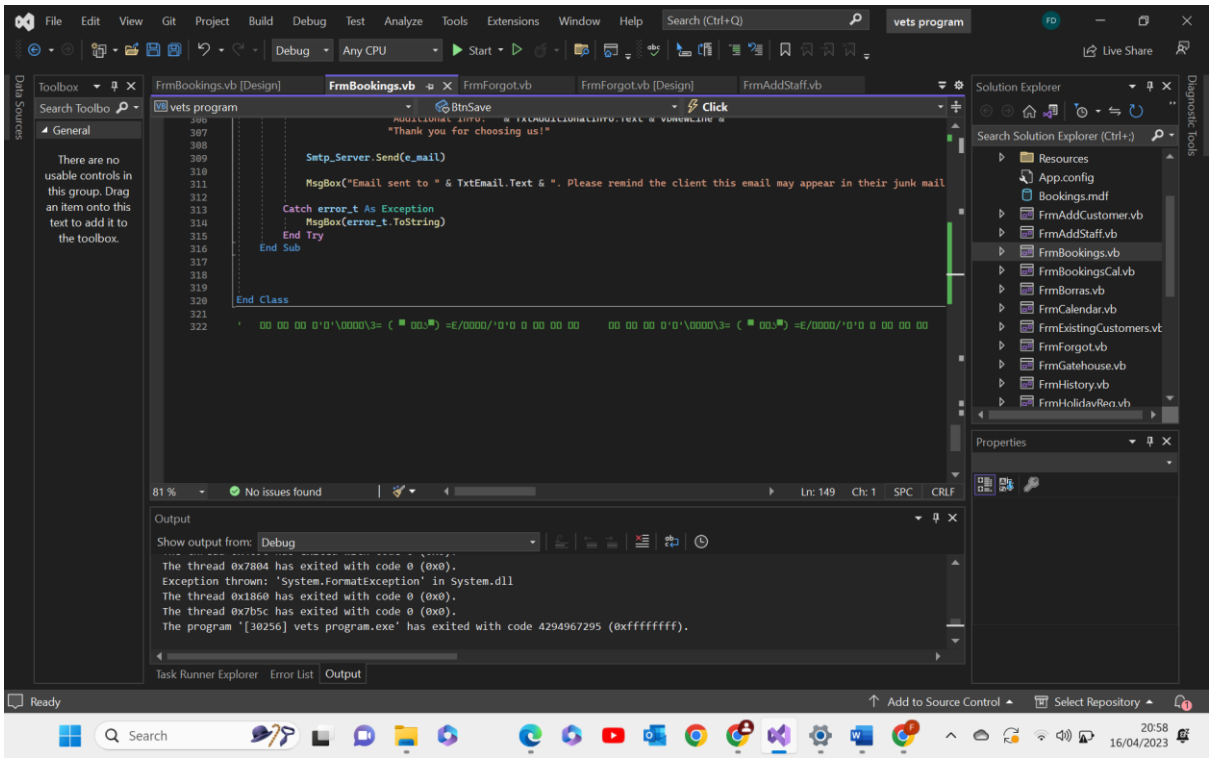
8.13-





The above is what appears after the email button has been selected.

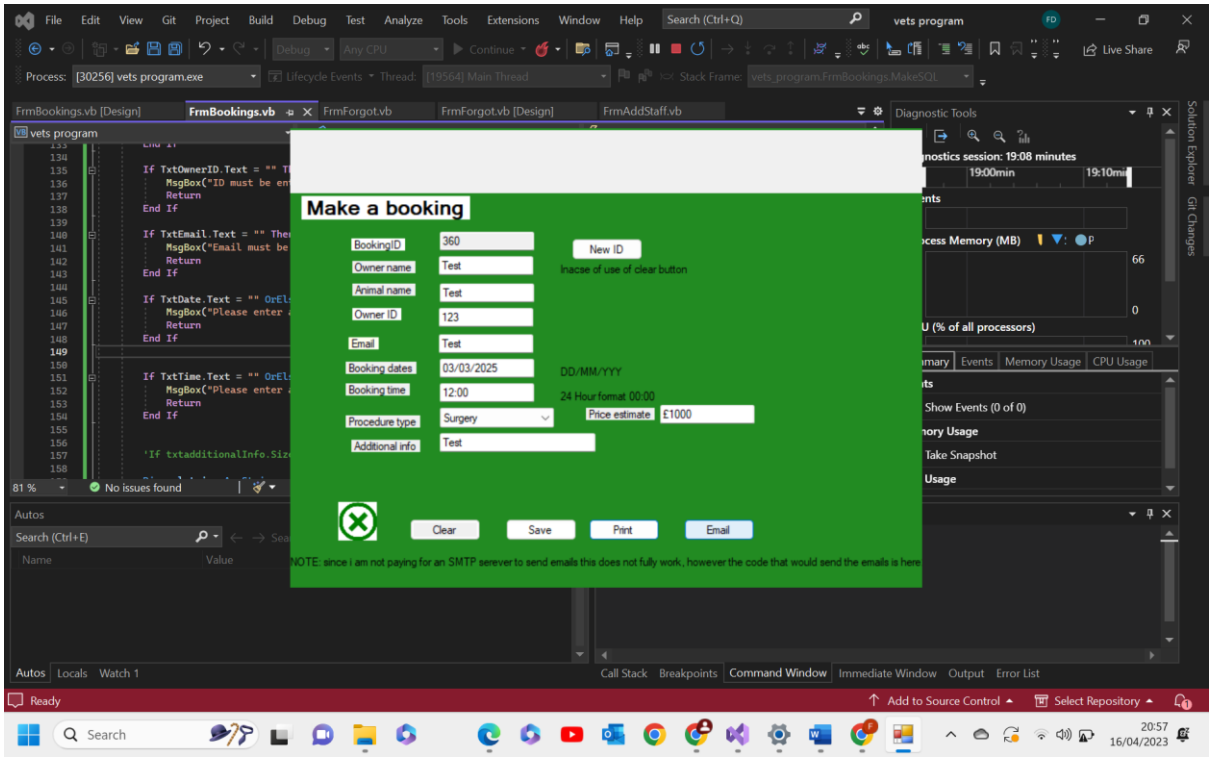


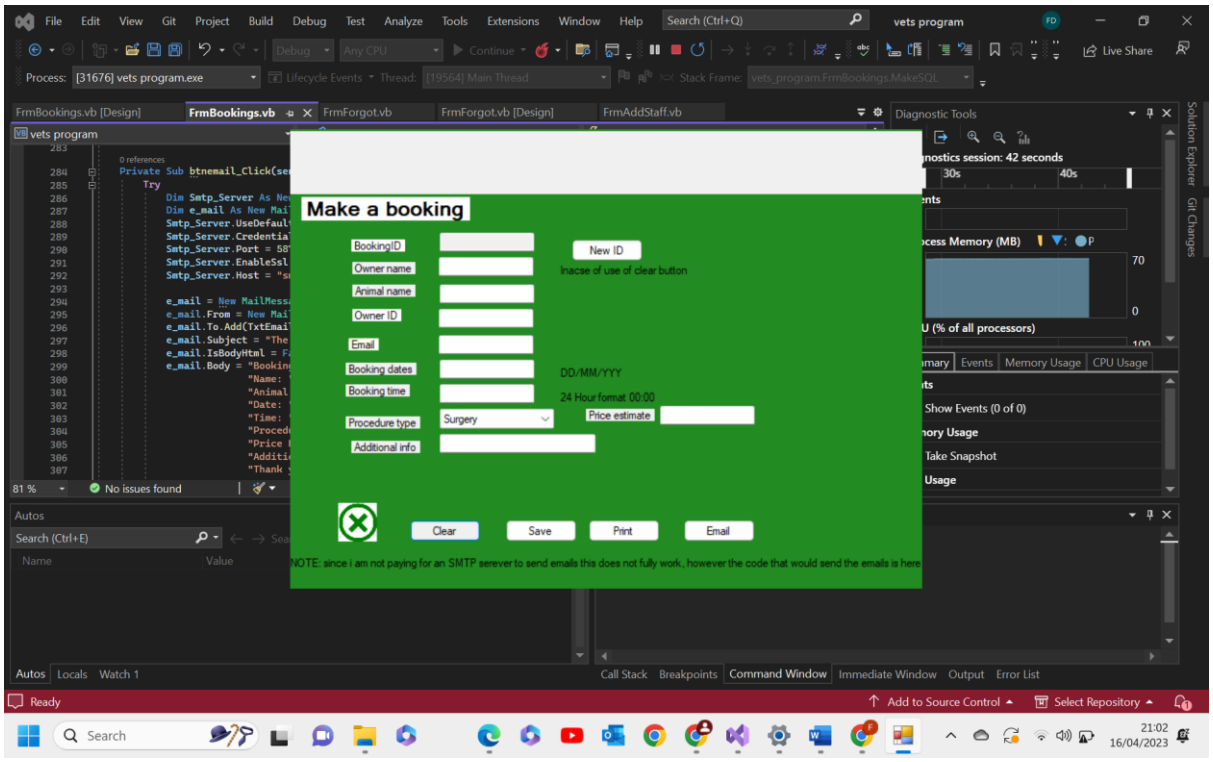


The above two screenshots are the code that would send an email if I had paiud for the server'

Test 8.13 comments- as we can see the email function does not work fully however does have the expected outcome. As stated above the reason this does not work is due to the lack of a paid SMTP server. Pass

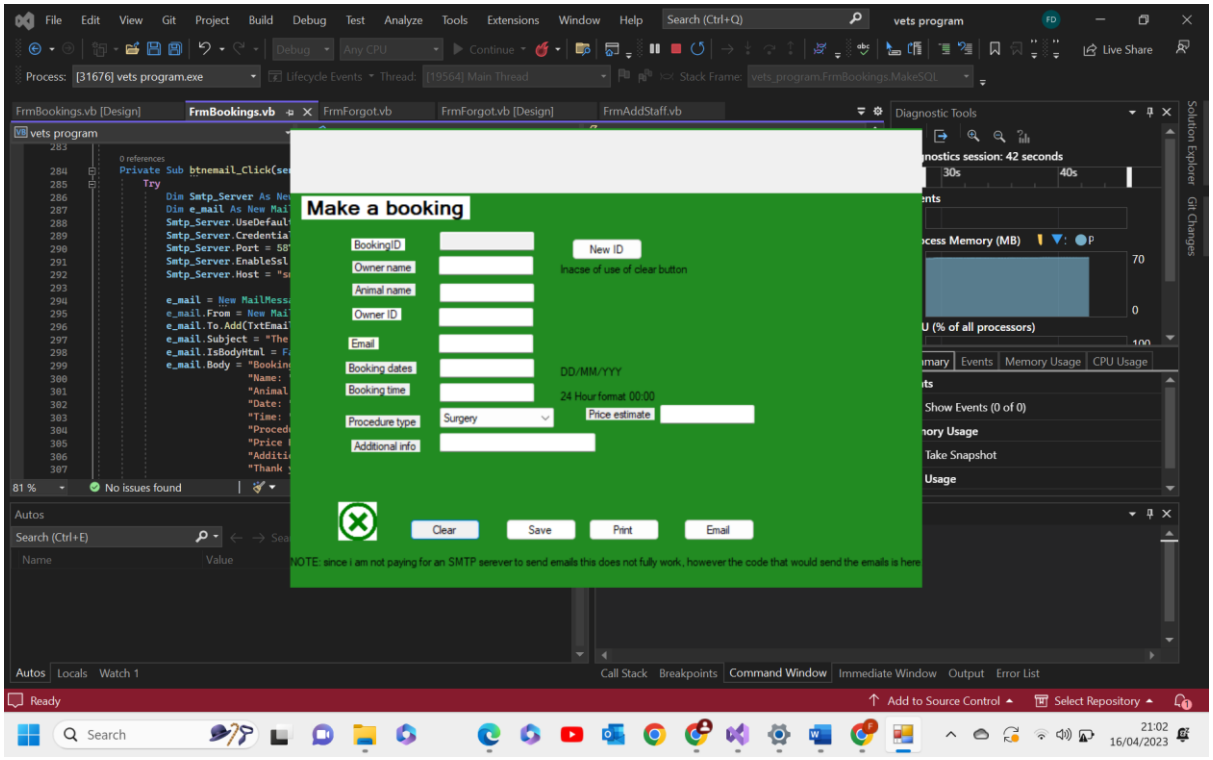
8.14-

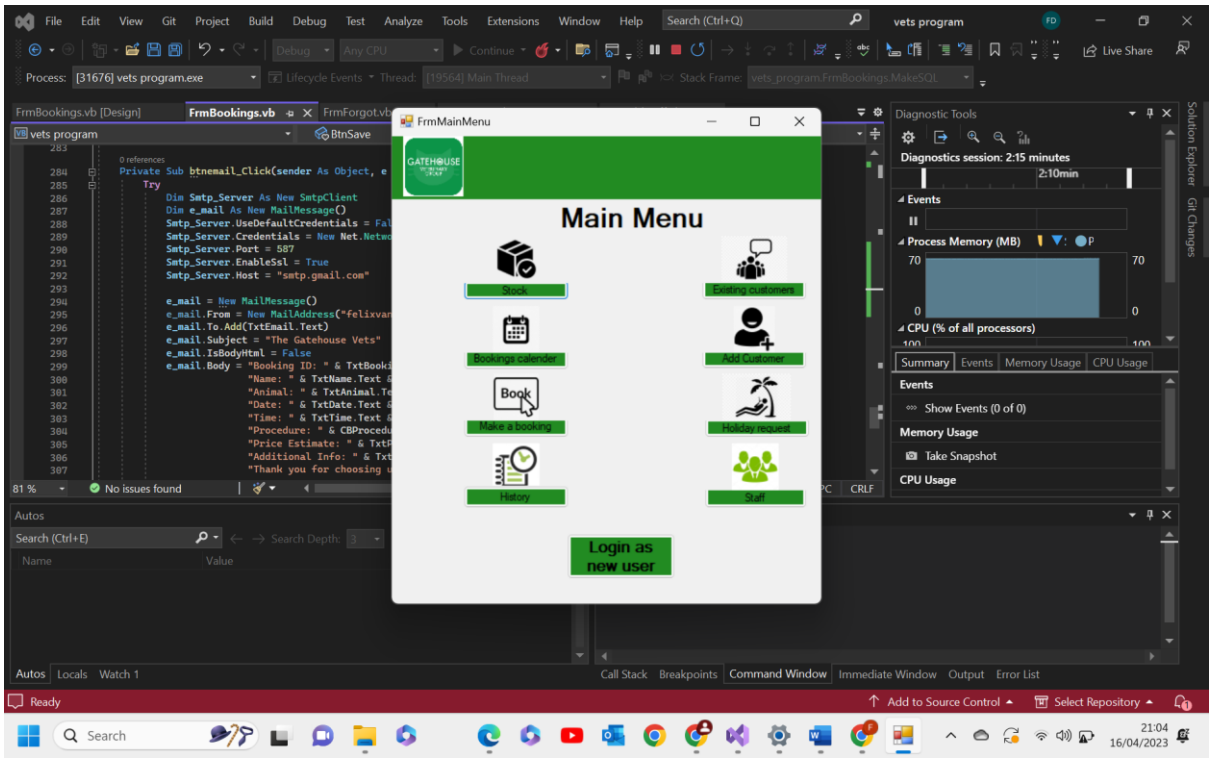




Test 8.14 comments- as we can see above, as a result of the clear button being pressed all text boxes were set = “” and so became void of data. Pass

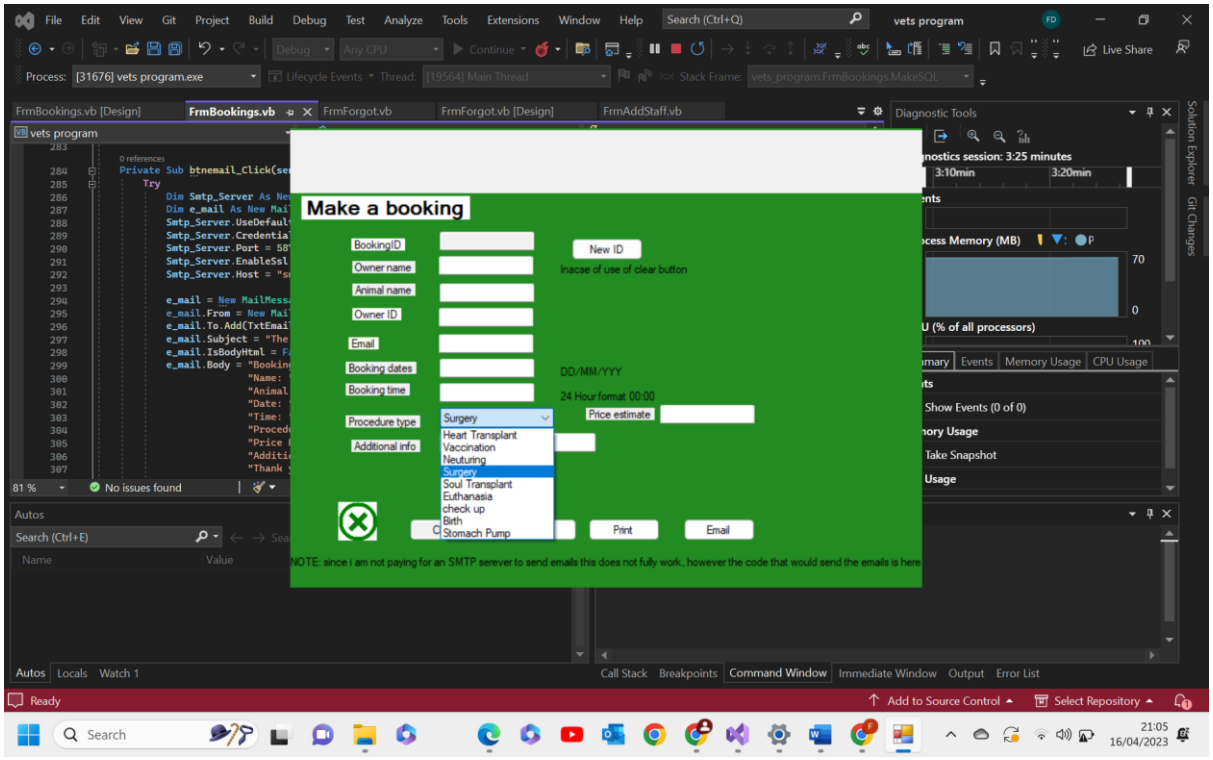
8.15-

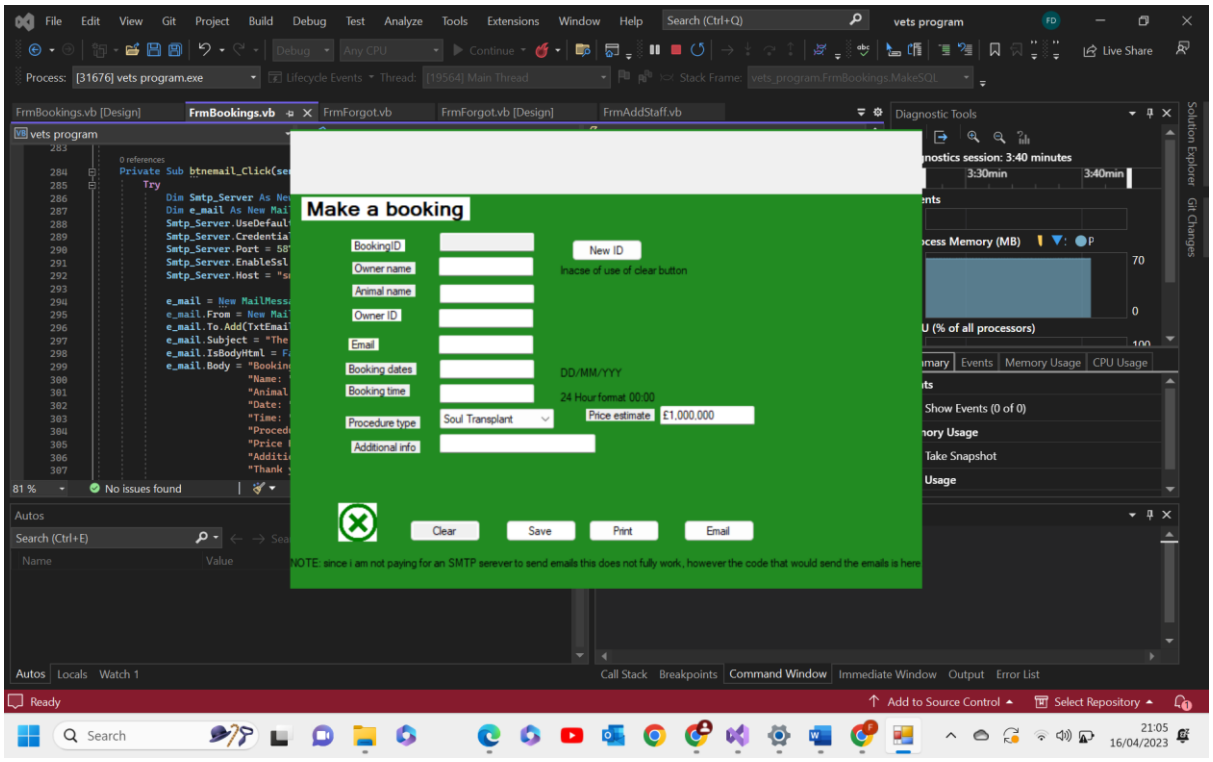


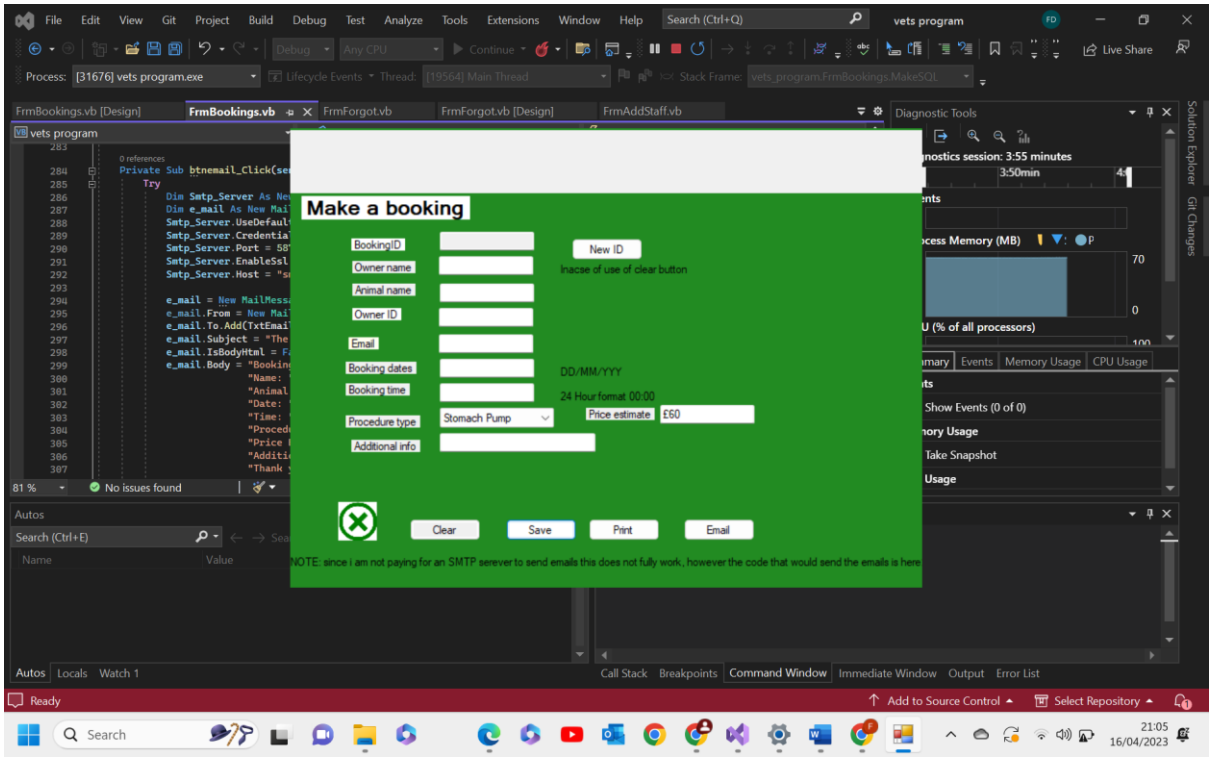


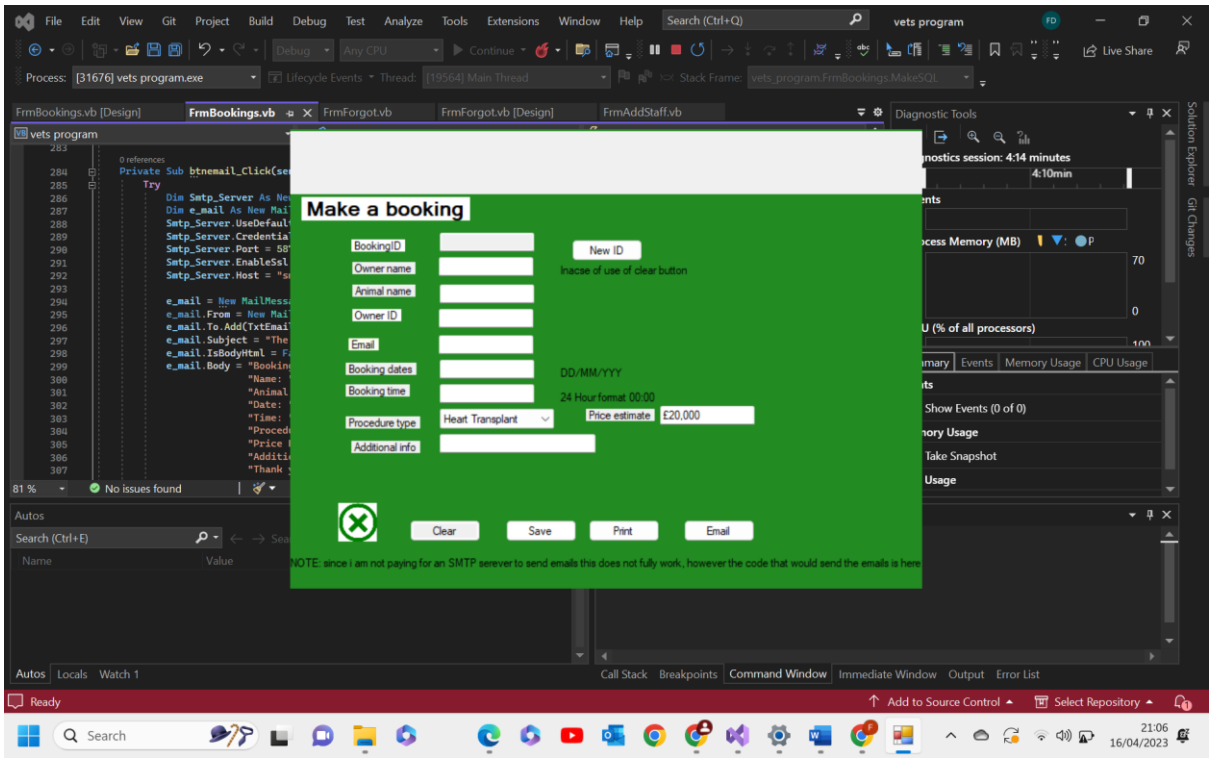
Test 8.15 comments- as shown above when the green cross picture box is pressed the form hides showing the main menu form.

8.16-


Make a booking
BookingID
New ID
Inacse of use of clear button
Owner name
Animal name
Owner ID
Email
Booking dates
DD/MM/YYY
Booking time
24 Hour format 00:00
Procedure type
Surgery
Price estimate
Additional info
Heart Transplant
Vaccination
Neuturing
Surgery
Soul Transplant
Euthanasia
check up
Birth
Stomach Pump
Print
Email
NOTE: since i am not paying for an SMTP serever to send emails this does not fully work, however the code that would send the emails is here


Make a booking
BookingID
New ID
Inacse of use of clear button
Owner name
Animal name
Owner ID
Email
Booking dates
DD/MM/YYY
Booking time
24 Hour format 00:00
Procedure type
Soul Transplant
Price estimate
£1,000,000
Additional info
Clear
Save
Print
Email
NOTE: since i am not paying for an SMTP serever to send emails this does not fully work, however the code that would send the emails is here





Test 8.16 comments- above we can see three different examples of this function working. When a procedure is selected from the combo box, the price estimate associated with that in the procedure table in the database is written into the corresponding text box outputting a price for the customers recipe in either email or physical form. Pass

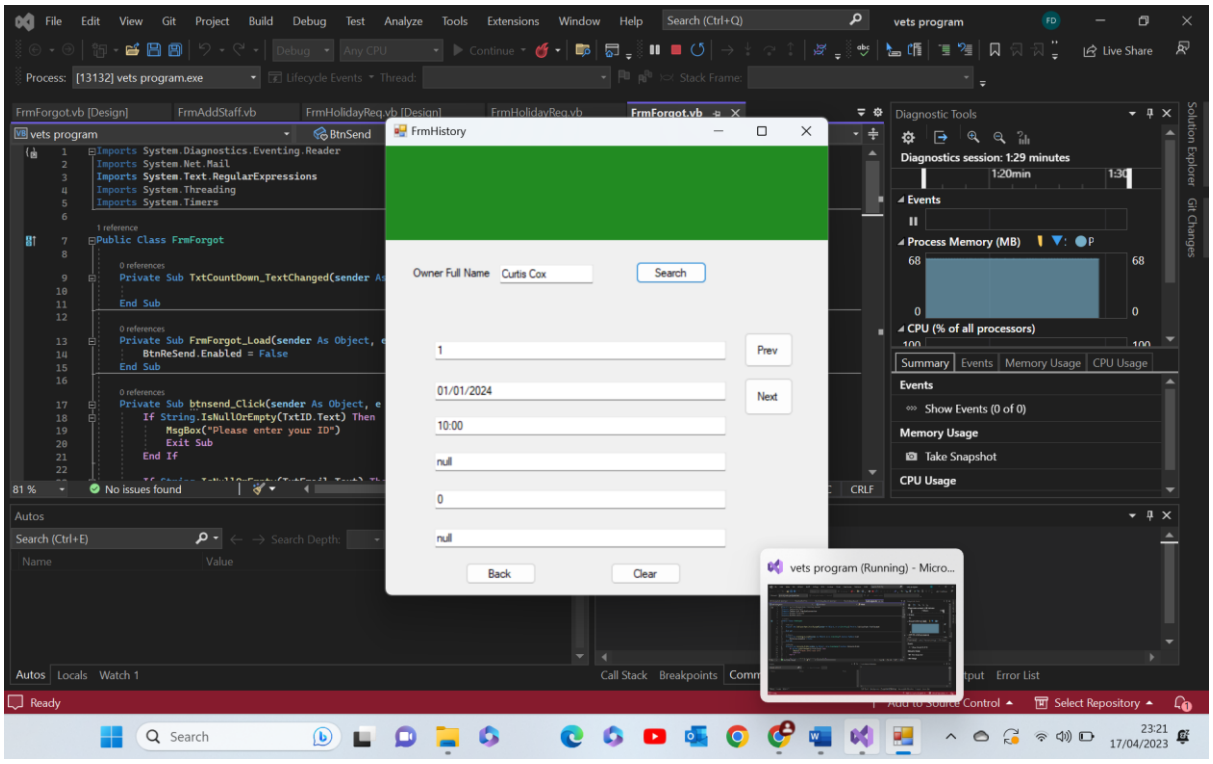
Test group 9- History form

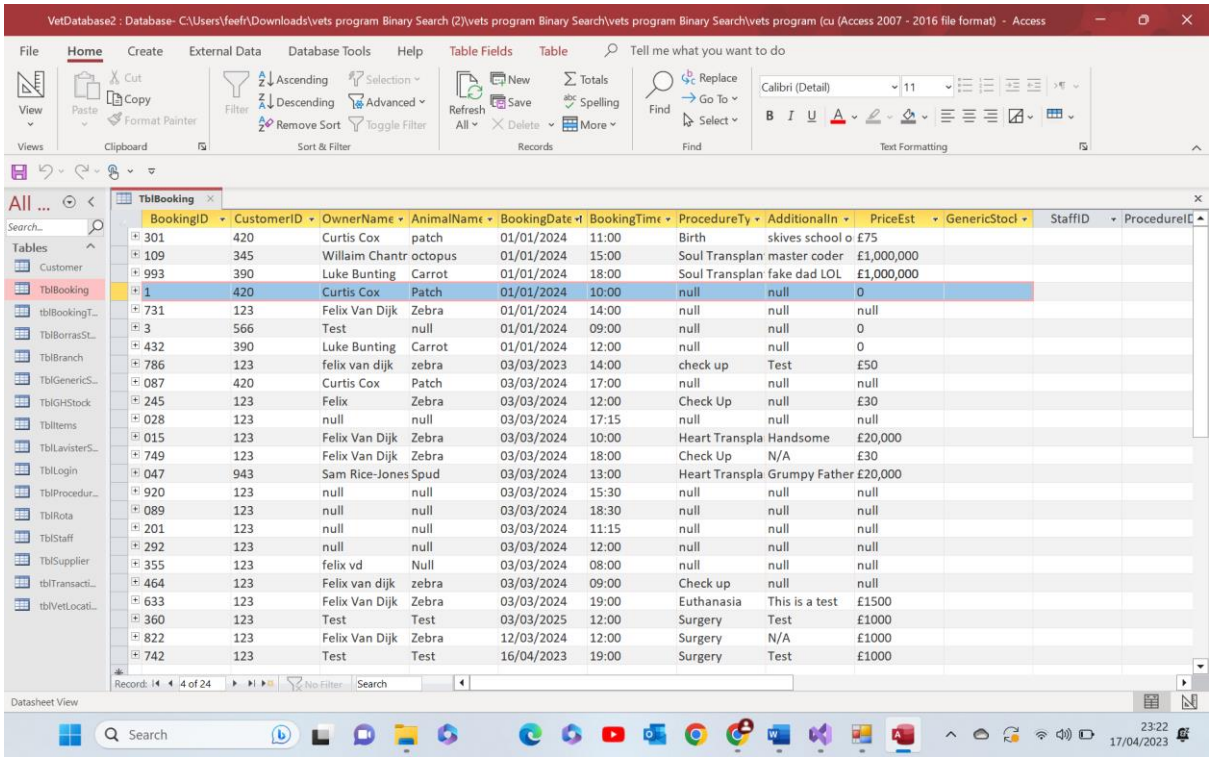
Test Number	Test data	Actual outcome	verdict	comments

1	Valid date used Specifically 'Curtis Cox'	As expected any past bookings found under that name are displayed in the below text boxes starting with the earliest or highest in the table	Pass	N/A
2	Invalid data used 'Curtis c0x'	As expected a message box appears warning the user of the fact that name cannot be found in the database	Pass	N/A
3	Extreme data used	As expected a message box appears warning the user of the fact that name, or the lack thereof, cannot be found in the database	Pass	N/A
4	Functional test Valid data	As expected the next record under that name stored in the table is displayed in place of the old data in the text boxes	Pass	Could have included an 'end of records' message box function similar to that the previous button has
5	Functional test Valid data	As expected the previous record under that name stored in the table is displayed in place of the old data in the text boxes	Pass	N/A
6	Functional test Valid data	As expected when the end of the results for that name is reached a message box was outputted	Pass	N/A
7	Functional test	All text boxes became empty	Pass	N/A

8	Functional test	Current form became hidden and main menu form appeared	Pass	N/A
9	Functional test Valid data searched	As expected all names were sorted alphabetically from the database	Pass	N/A
10	Functional test Valid data used	As expected the sorted array was used to search through via a binary search algorithm	Pass	N/A

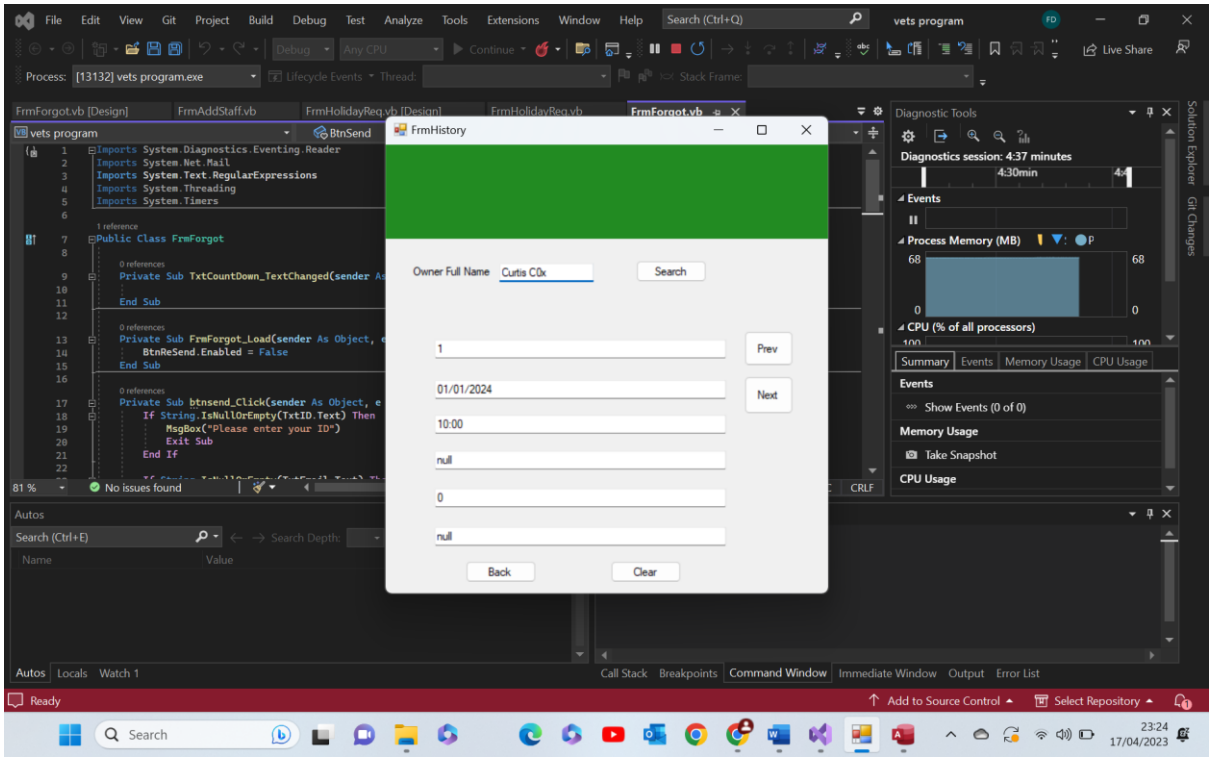
9.1-

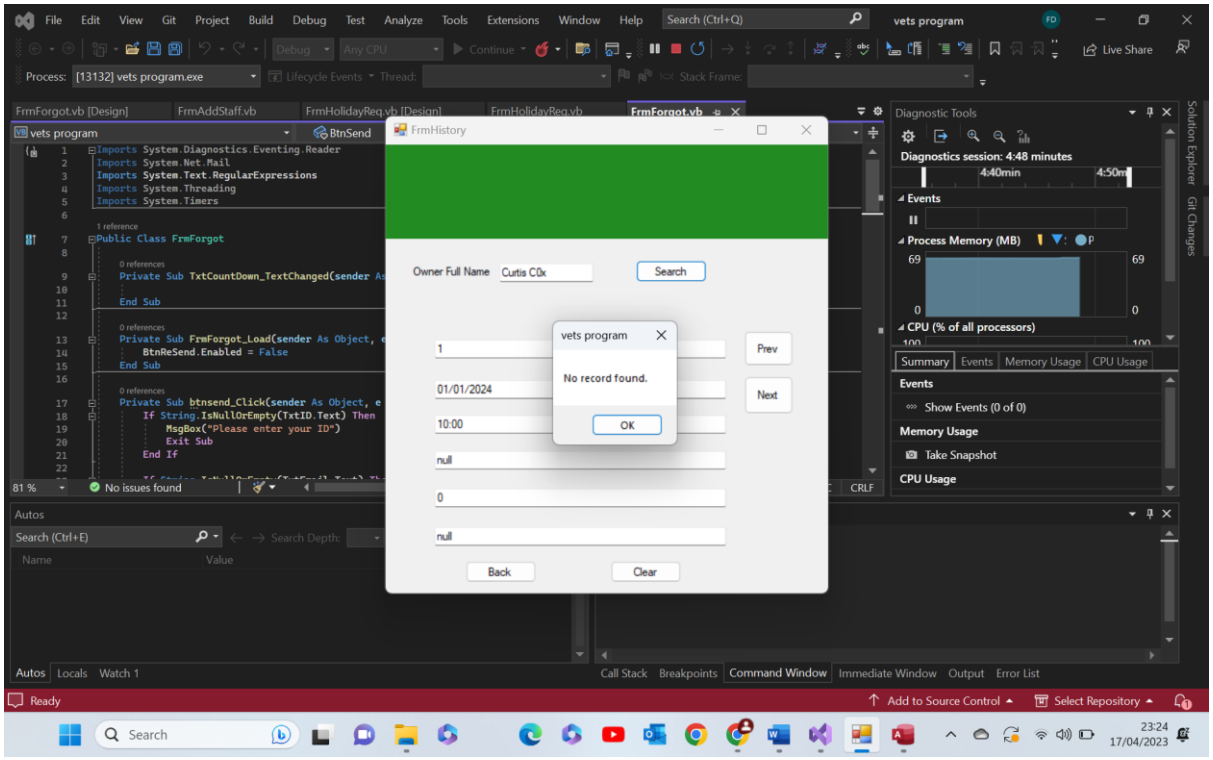




Test 9.1 comments- as we can see when valid data is entered, in this case Curtis Cox, the program recognises that records with this name exist in the database and so output the correlating details into the text boxes. The second screenshot is to prove that the details in the text boxes actually correlate to the searched data. Pass

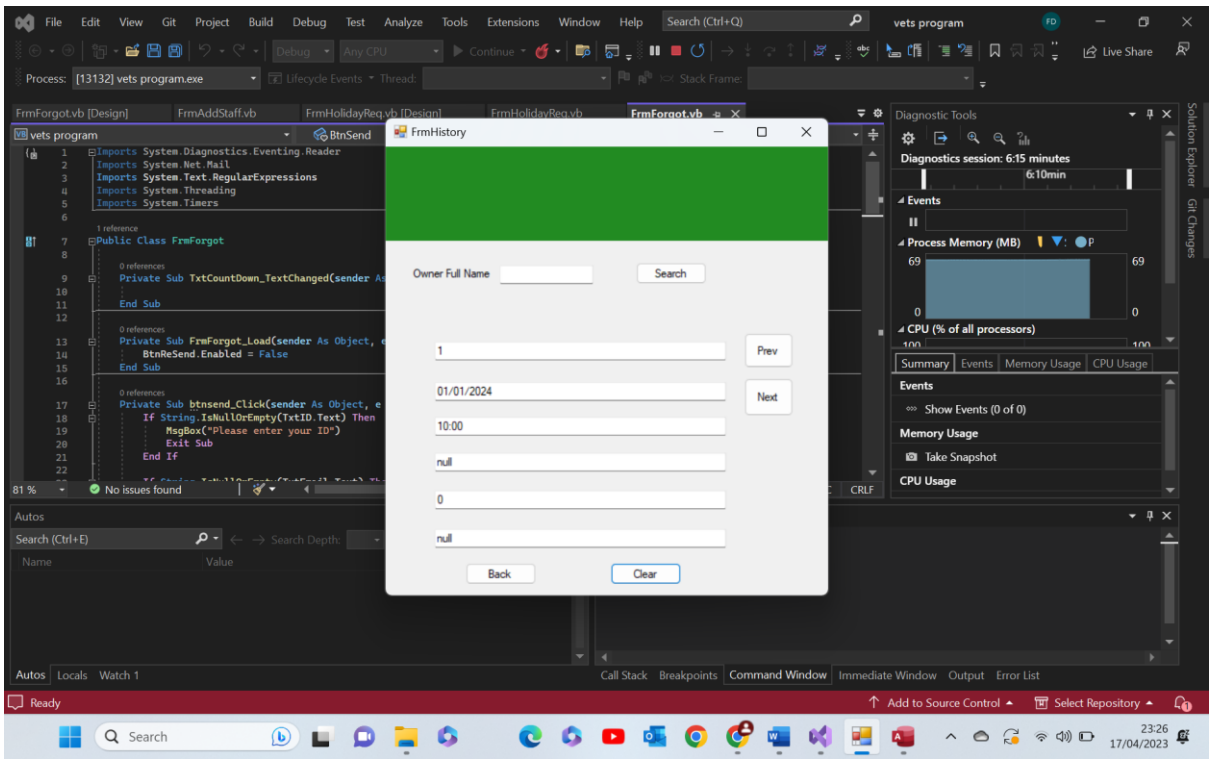
9.2-

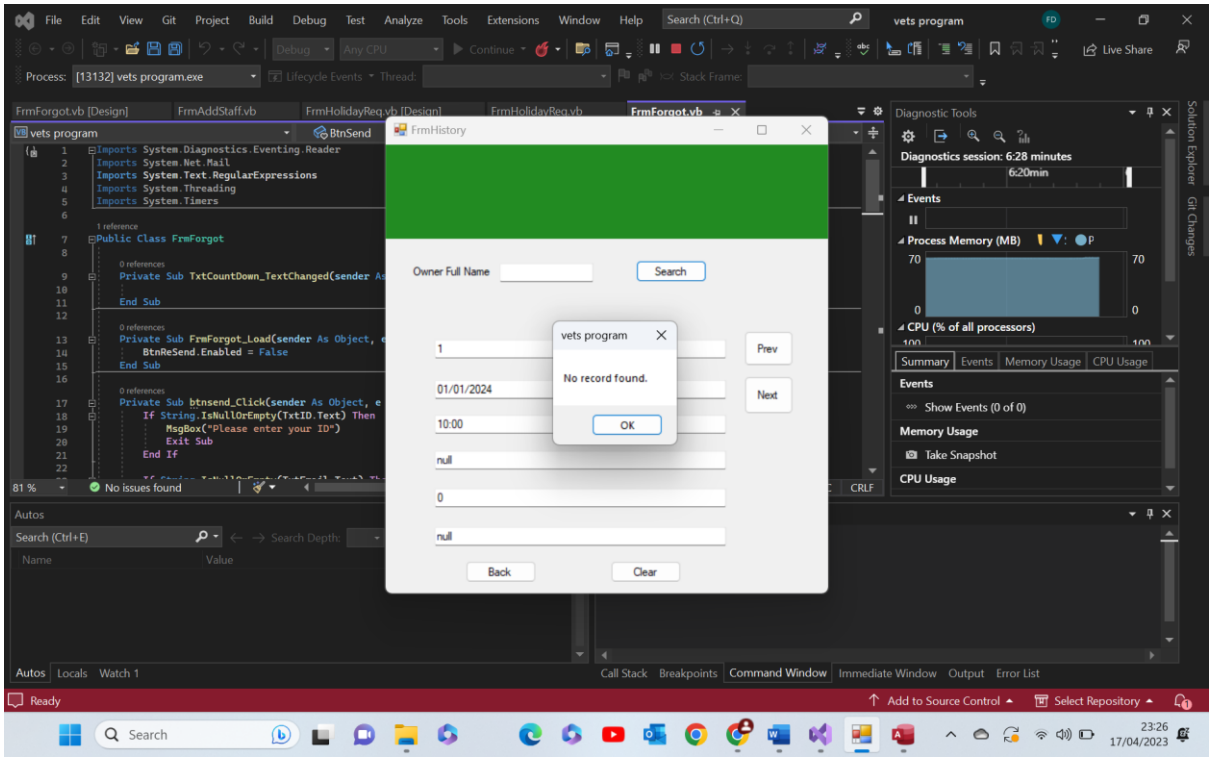




Test 9.2 comments- as we can see above, when invalid data is entered, in this case Curtis C0x, the program recognises that this name does not appear in the database and so outputs an appropriate message box. Pass

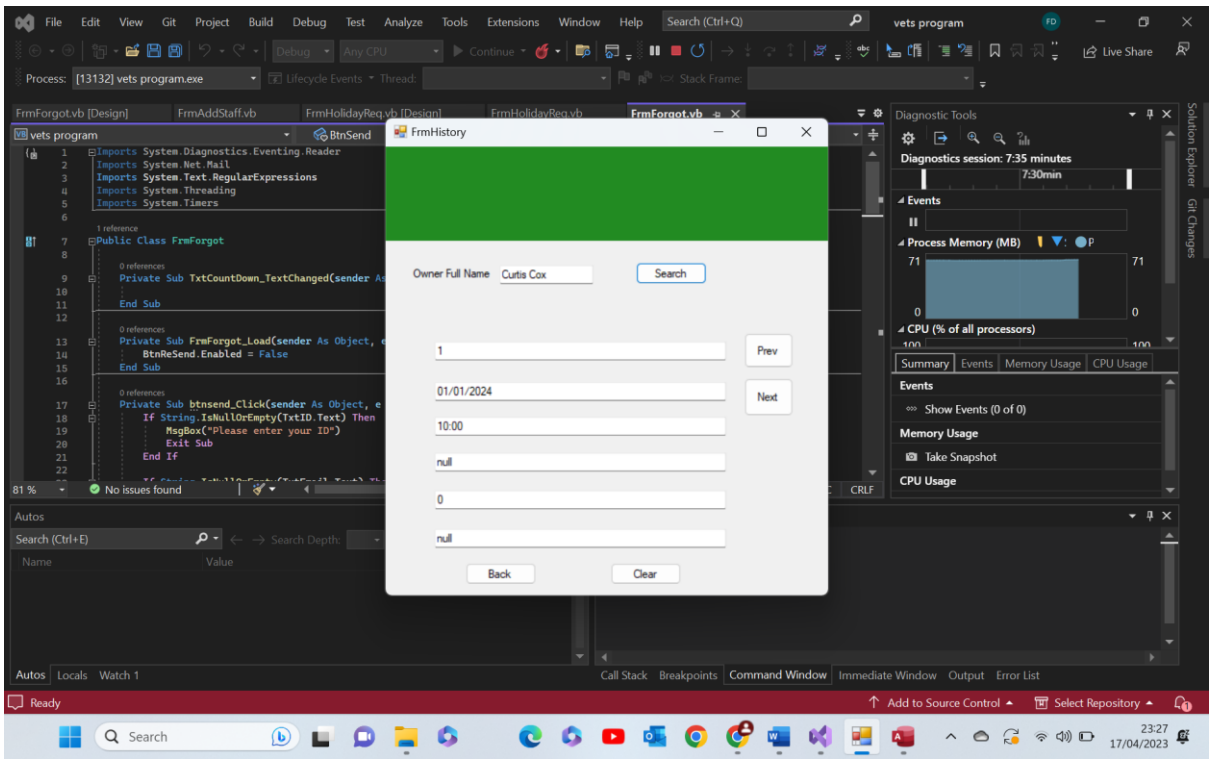
9.3-

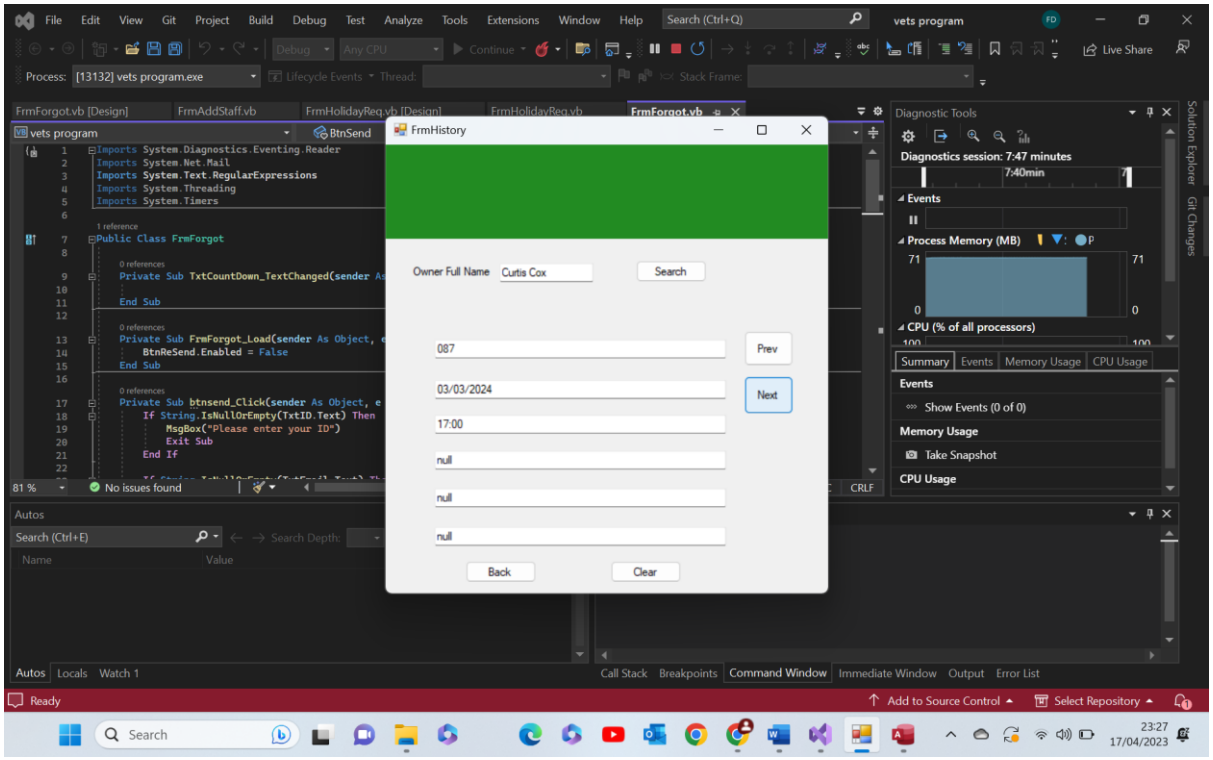


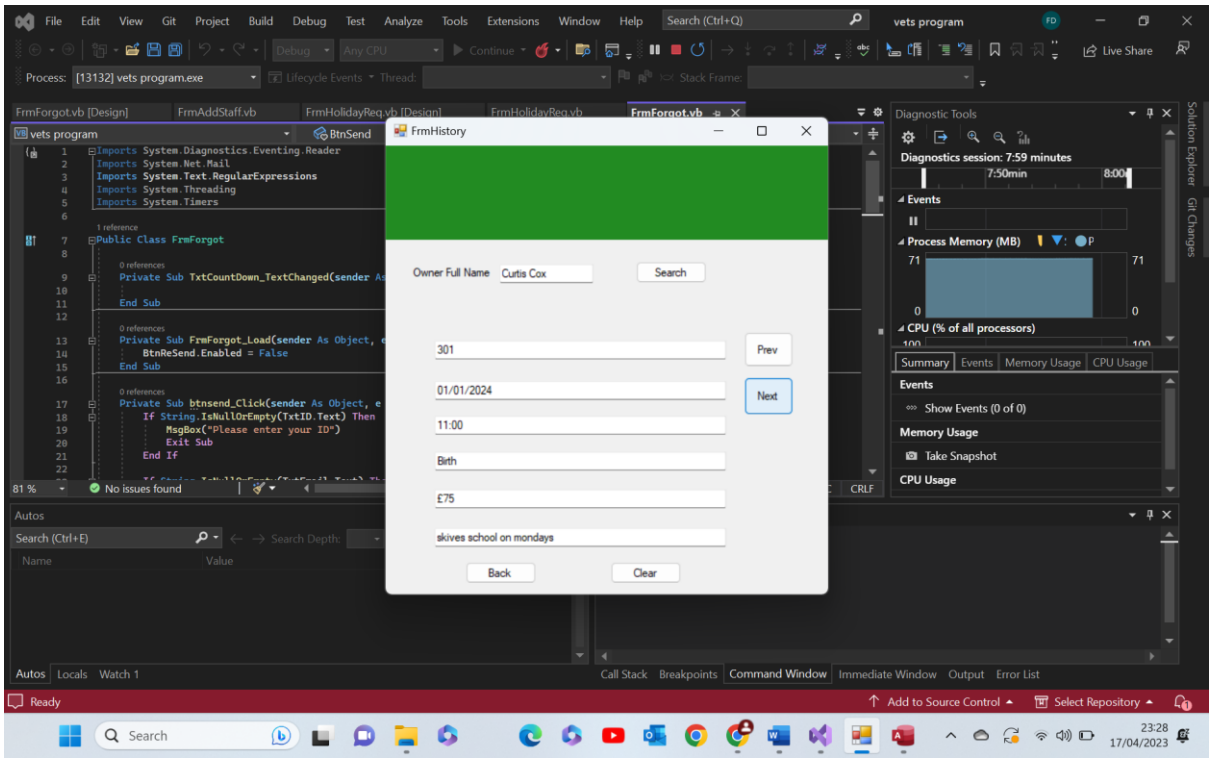


Test 9.3 comments- as we can see above, when extreme data is entered the program recognises that this name does not appear in the database and so outputs an appropriate message box. Pass

9.4-

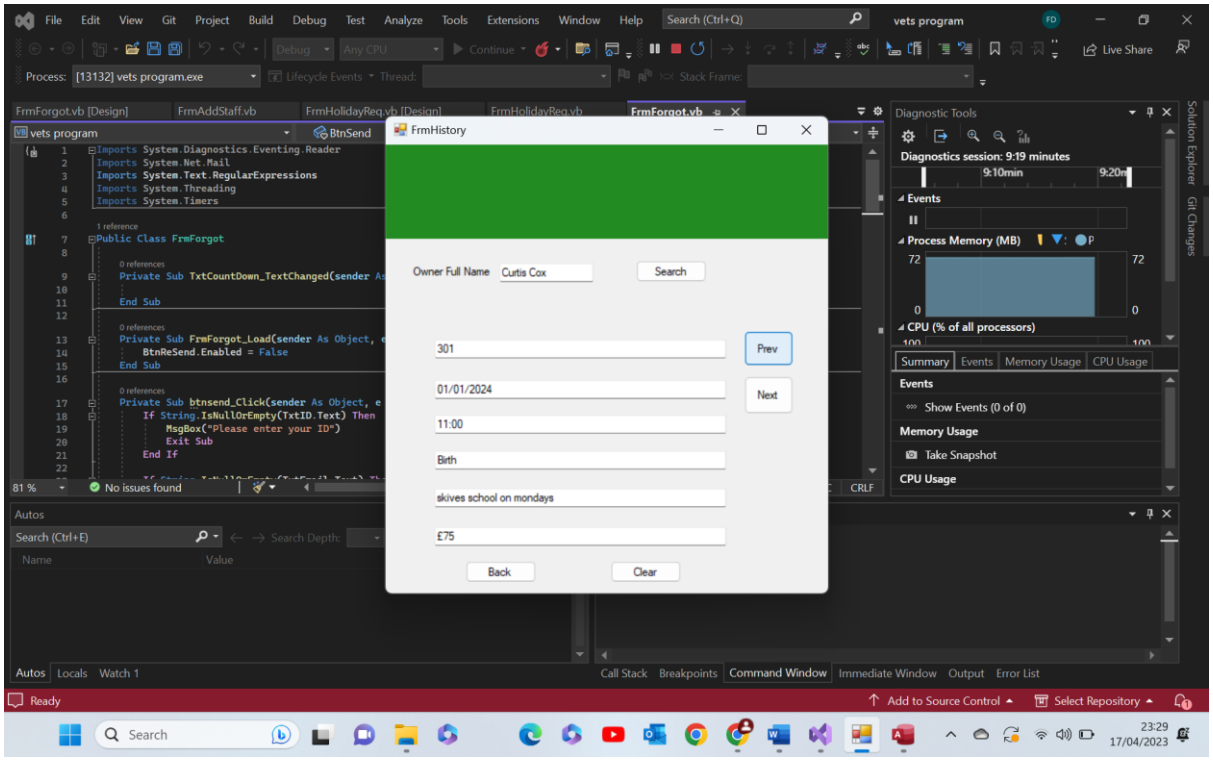


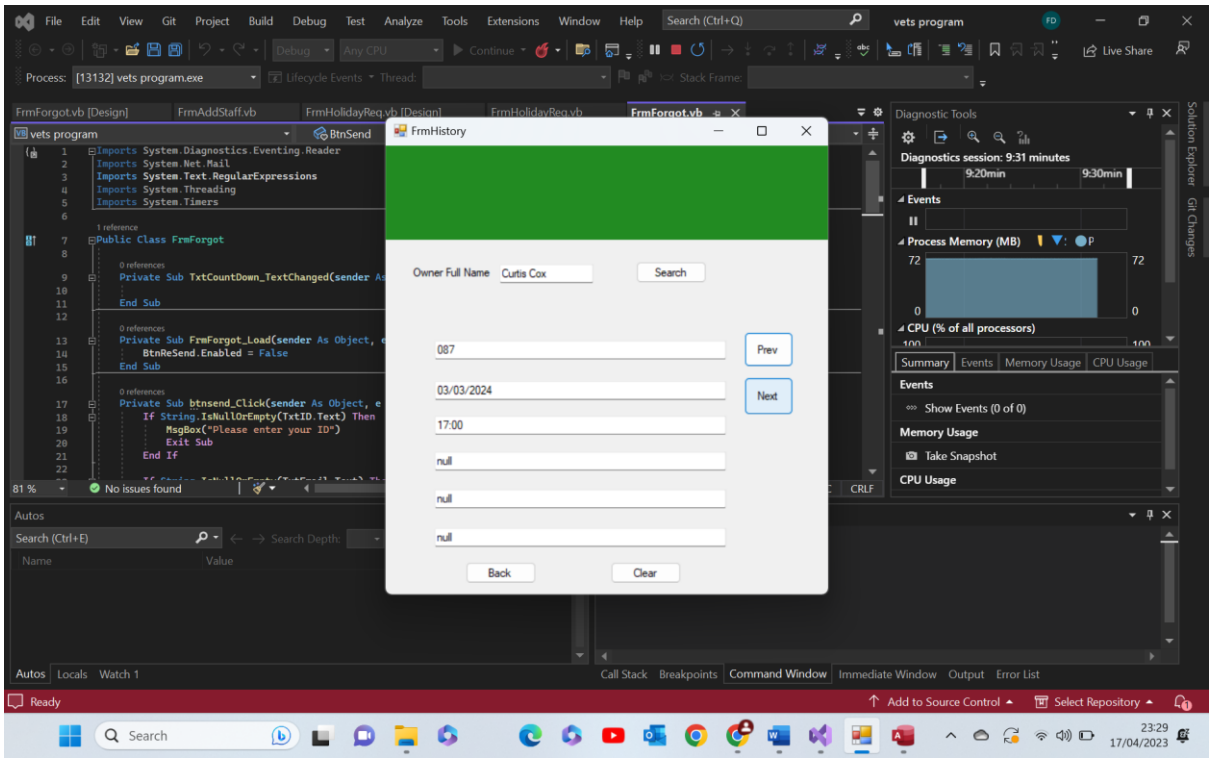


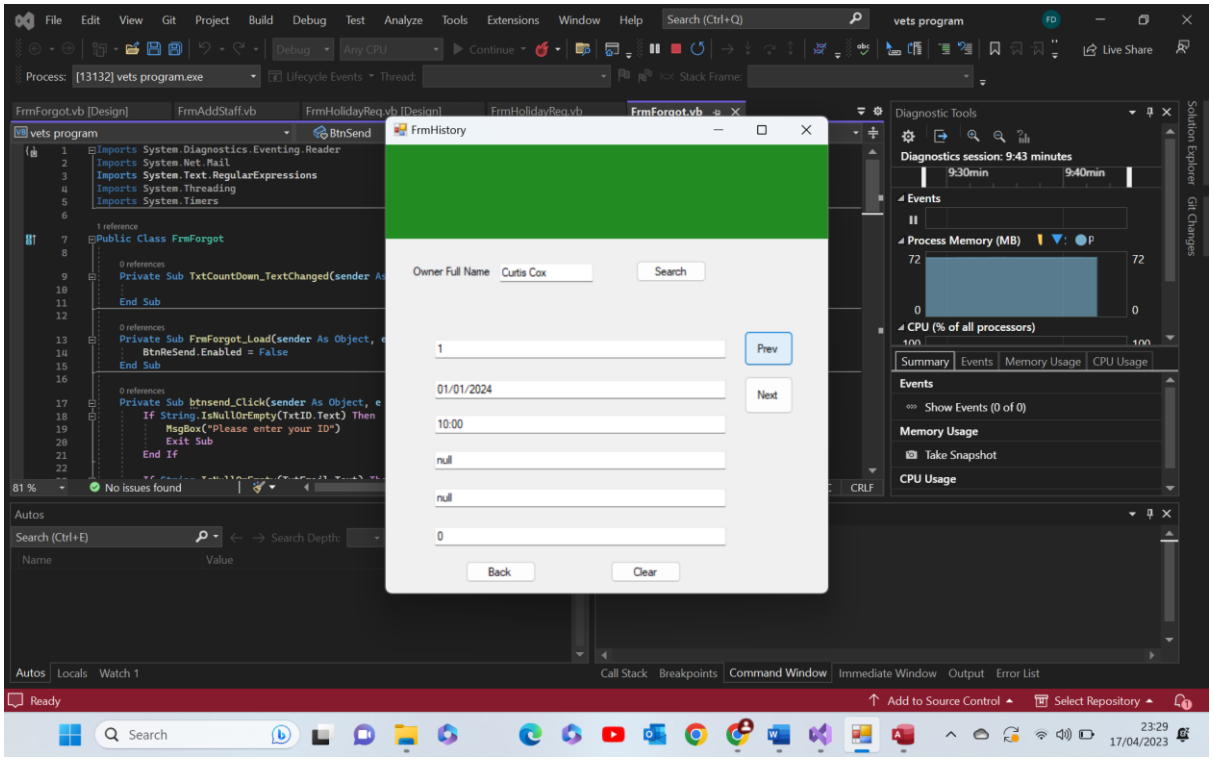


Test 9.4 comments- as we can see above when the next button is selected the text boxes get new data correlating with the searched name in the database written into them. Pass

9.5-

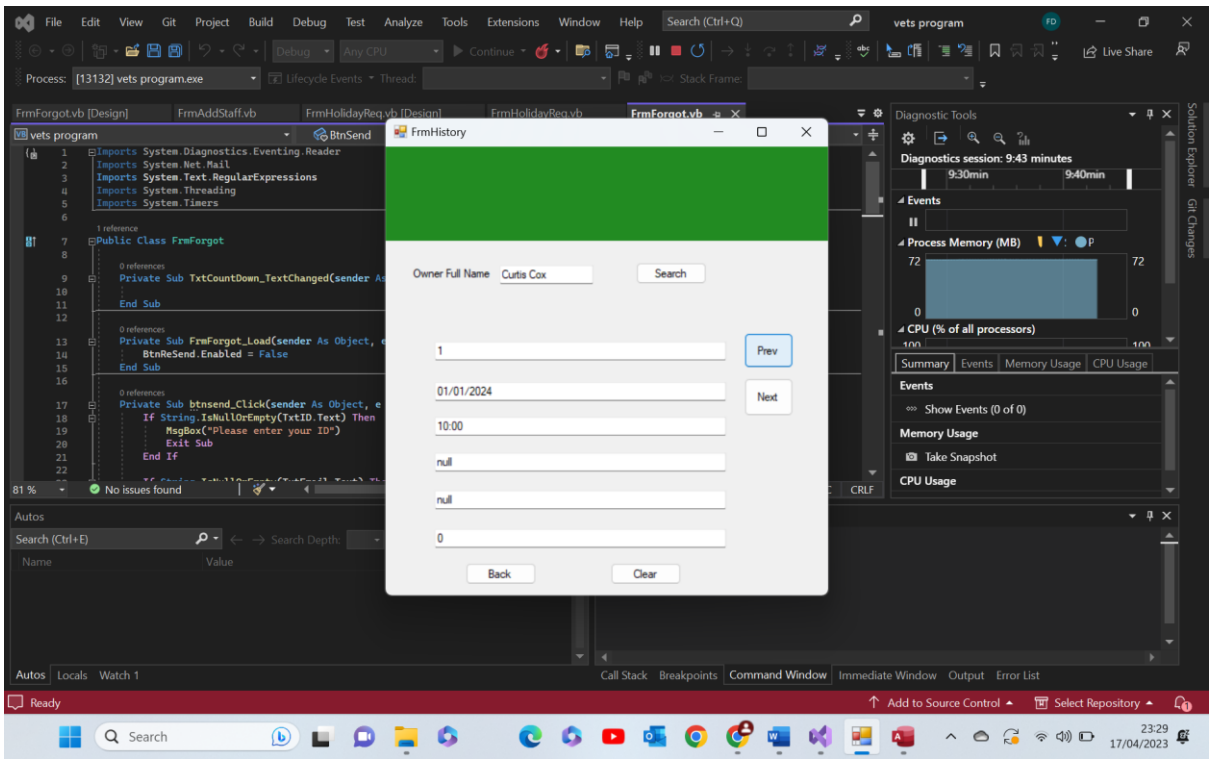

FrmHistory
Owner Full Name
Curtis Cox
Search
301
Prev
01/01/2024
Next
11:00
Birth
skives school on mondays
£75
Back
Clear

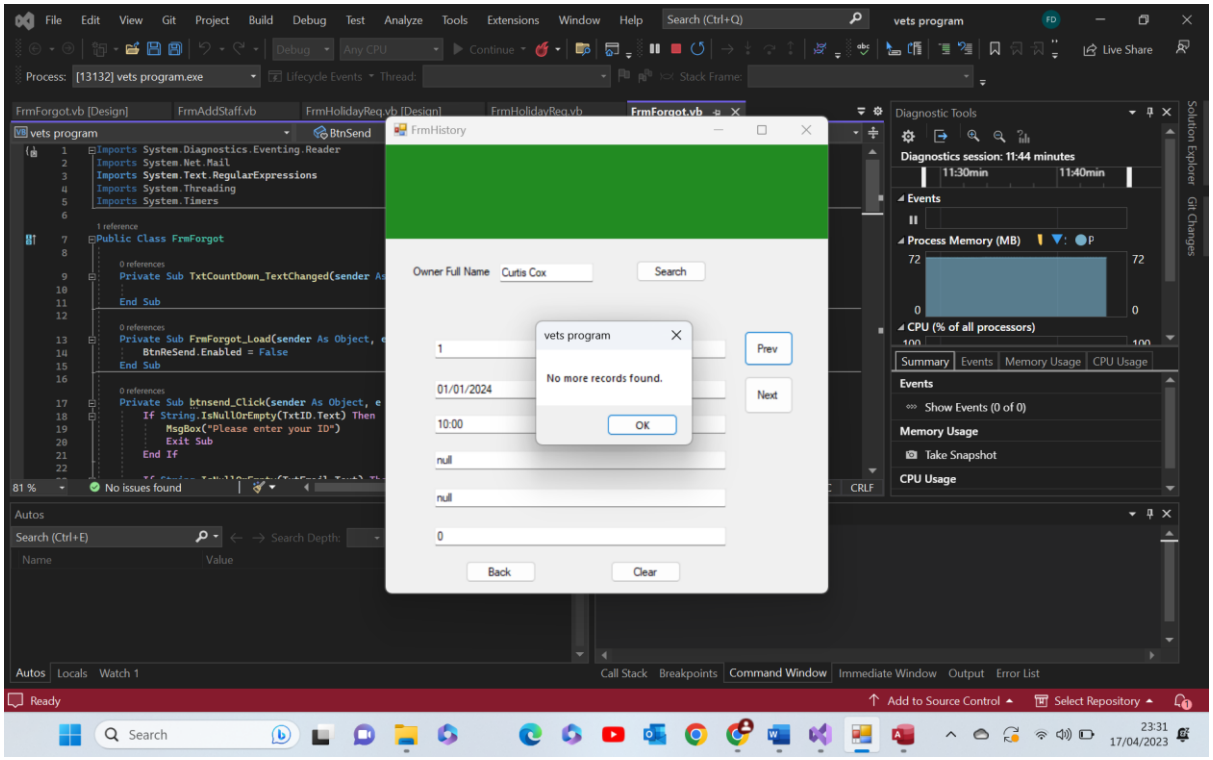

FrmHistory
Owner Full Name
Curtis Cox
Search
087
Prev
03/03/2024
Next
17:00
null
null
null
Back
Clear



Test 9.5 comments- as we can see above when the previous button is selected the text boxes get new data correlating with the searched name in the database written into them.
Pass

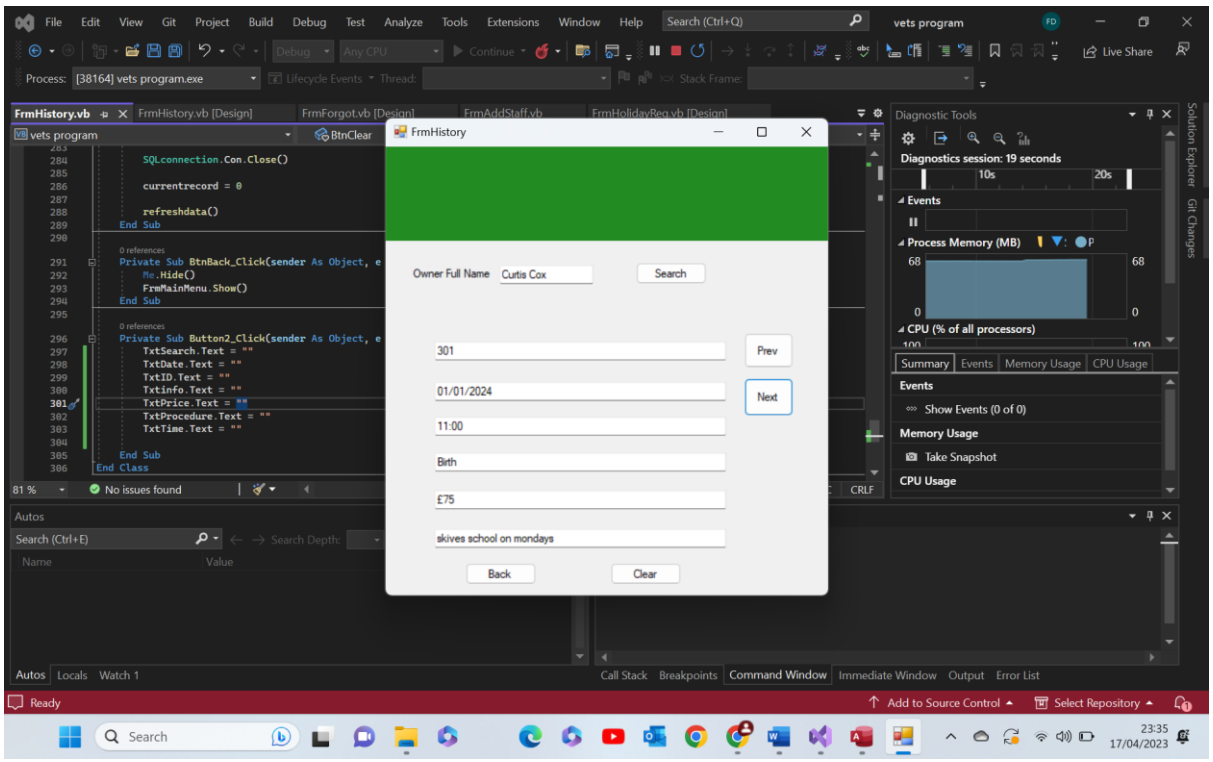
9.6-

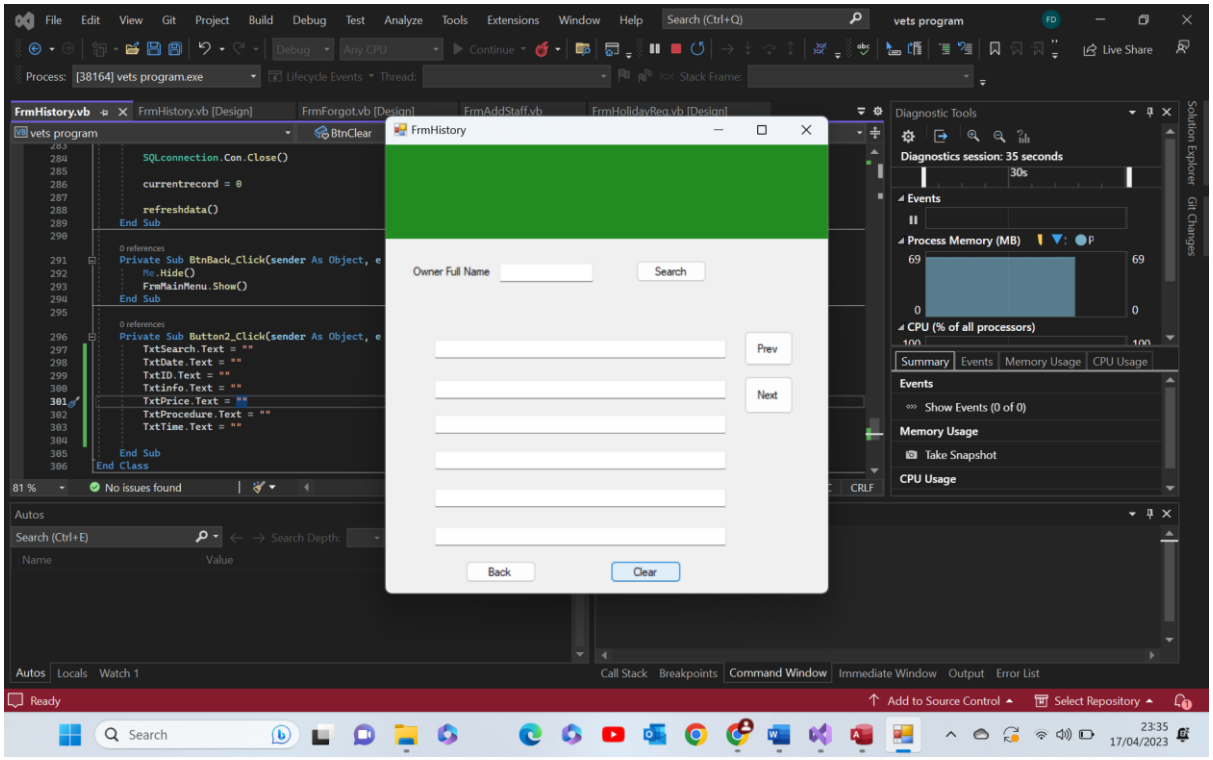




Test 9.6 comments- as expected when the program recognised that the end of the records had been reached it outputted an appropriate message box warning the user and stopping them from using the previous button any more times. Pass

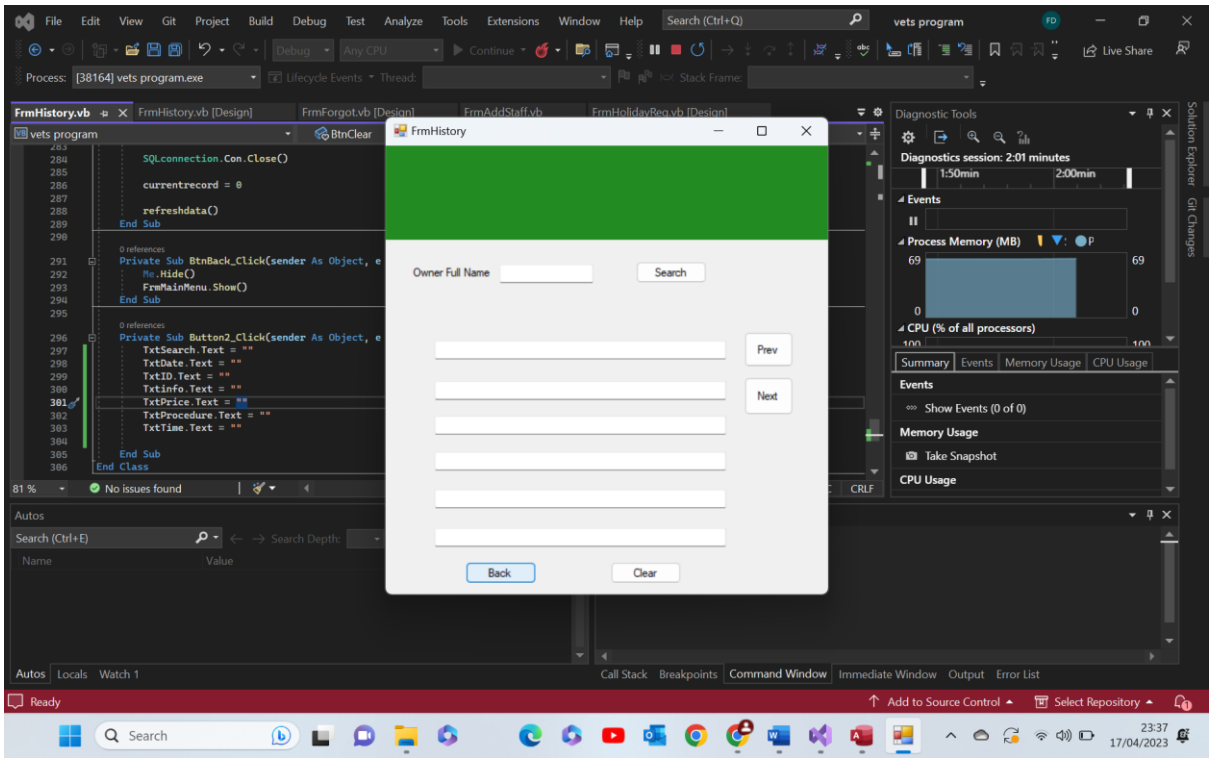
9.7-

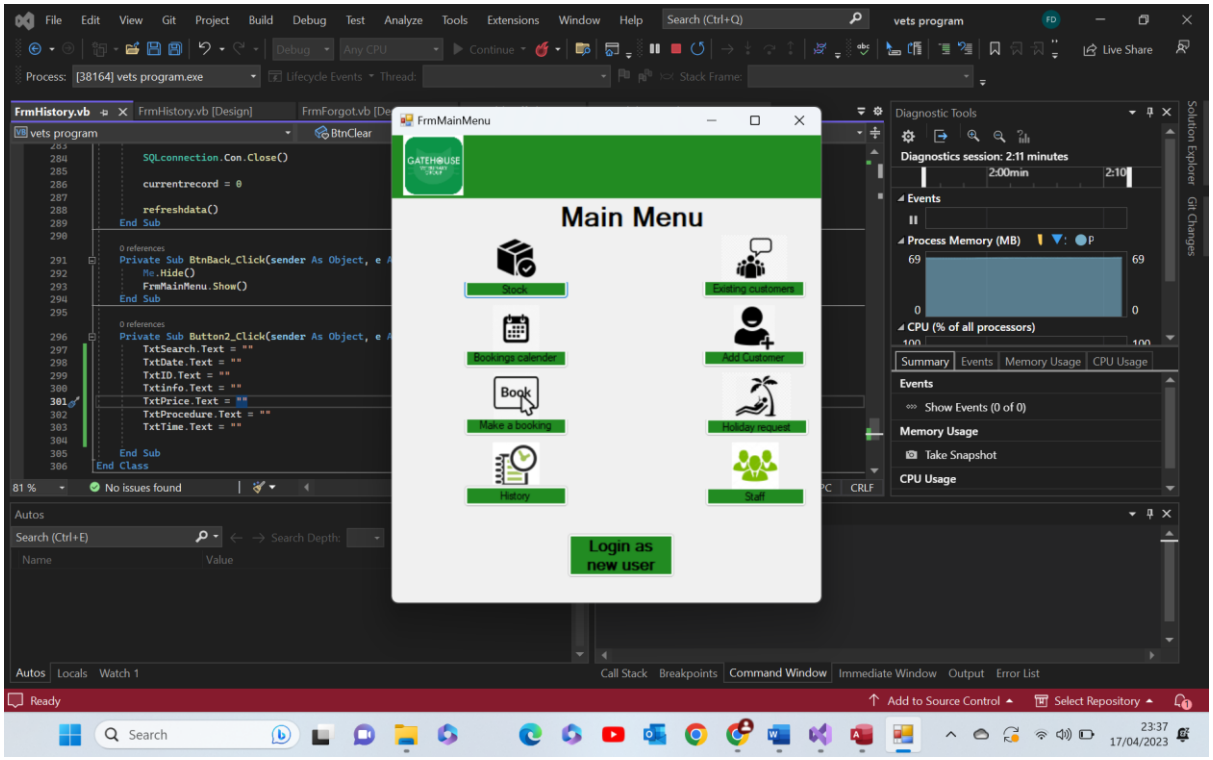




Test 9.7 comments- as we can see when the clear button is pressed all text boxes are set = “” and so become void of data. Pass

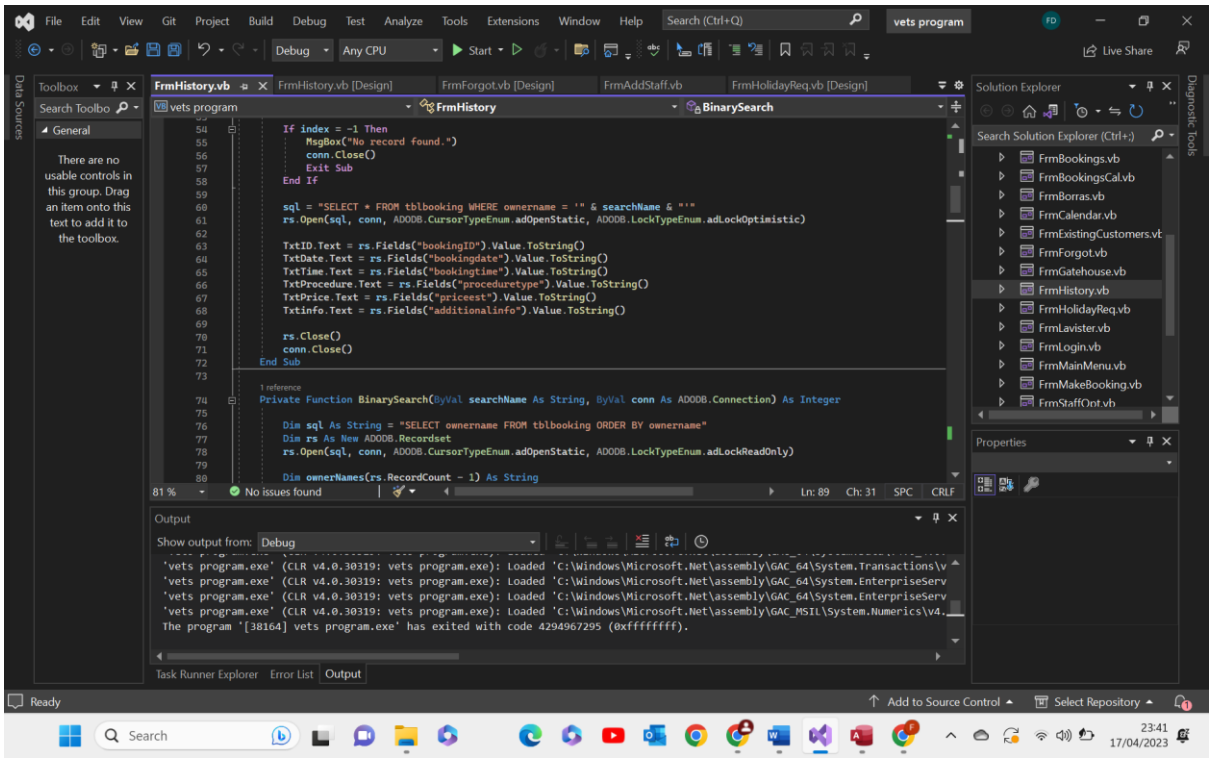
9.8-





Test 9.8 comments – current form was hidden and main menu form opened as expected.
Pass

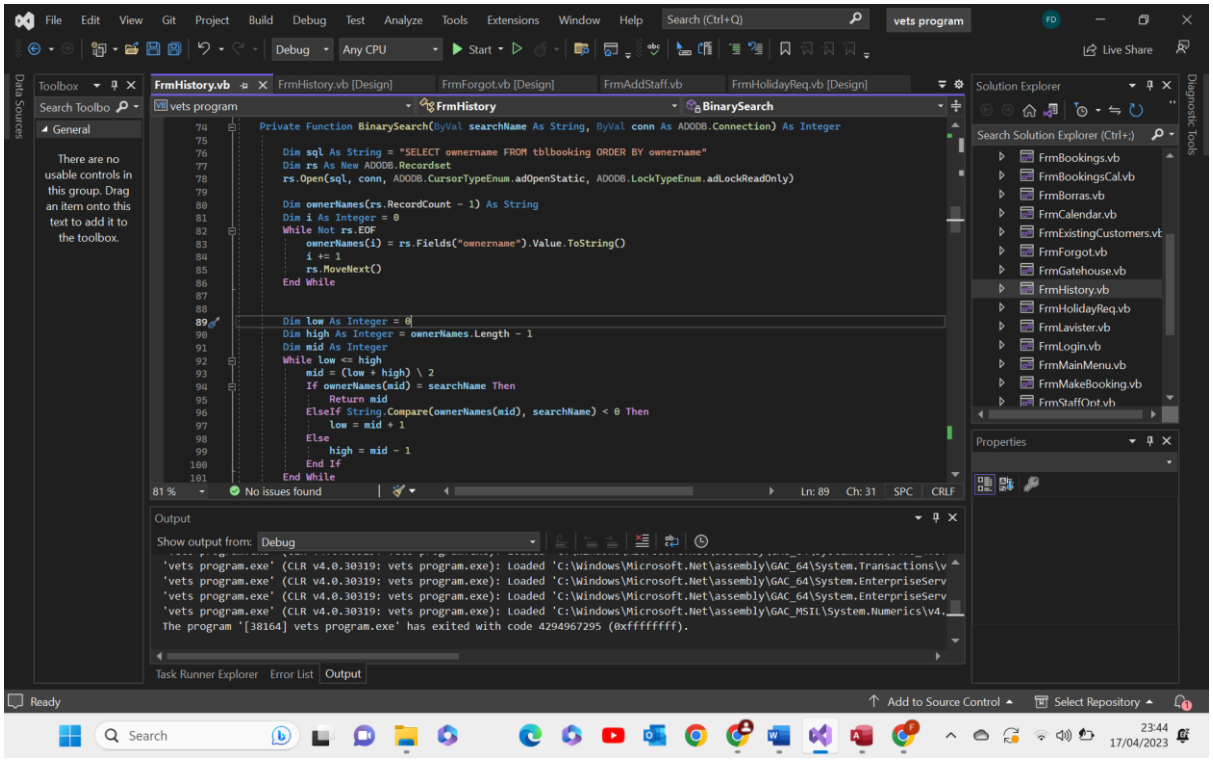
9.9-

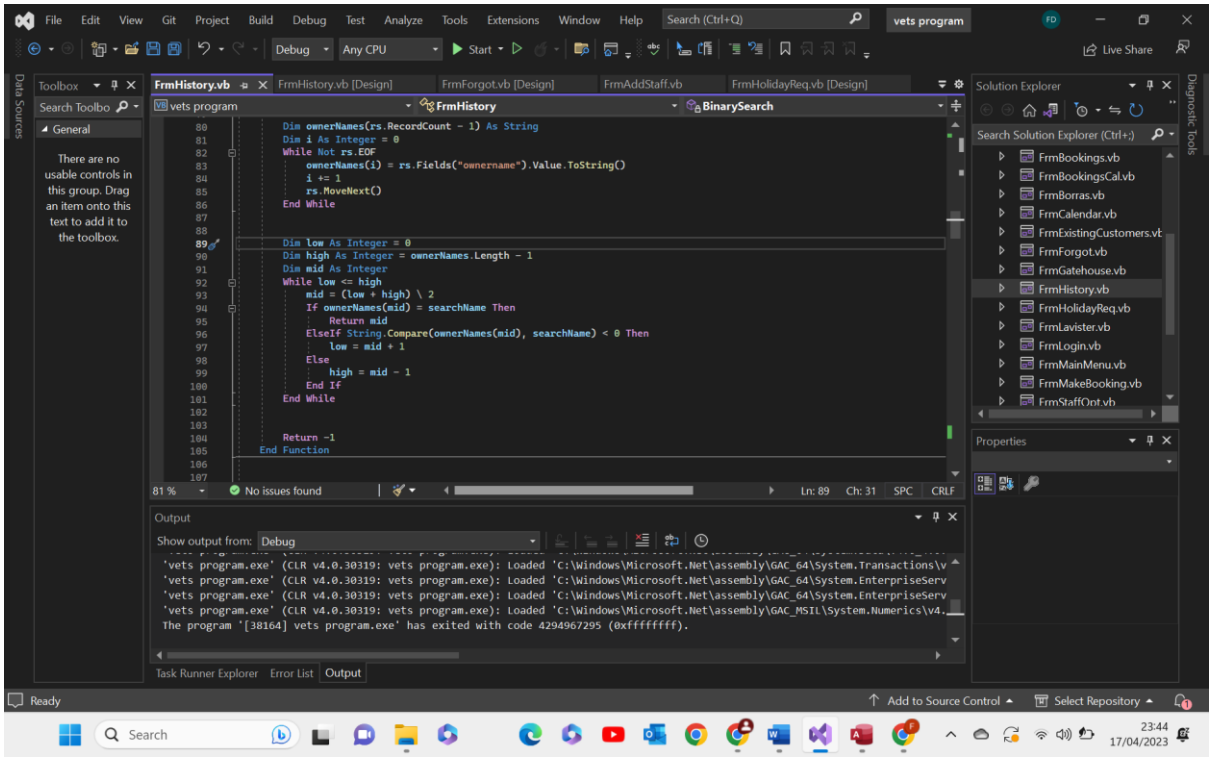


Test 9.9 comments- this is hard to demonstrate, but since the search code in this program is a binary search, the list must be sorted and so the fact that the test 9.1 was a success proves this works. I have included a screenshot of the code that performs this sort. The function BinarySearch performs a binary search on a sorted array of owner names

retrieved from the tblbooking table in the database. The SELECT statement in the SQL query orders the results by the ownername column, which ensures that the array is sorted before the binary search is performed.

9.10-





Test 9.10 comments- this is hard to demonstrate, however, the fact that the program successfully finds a record when the search term is "Curtis Cox" demonstrates that the

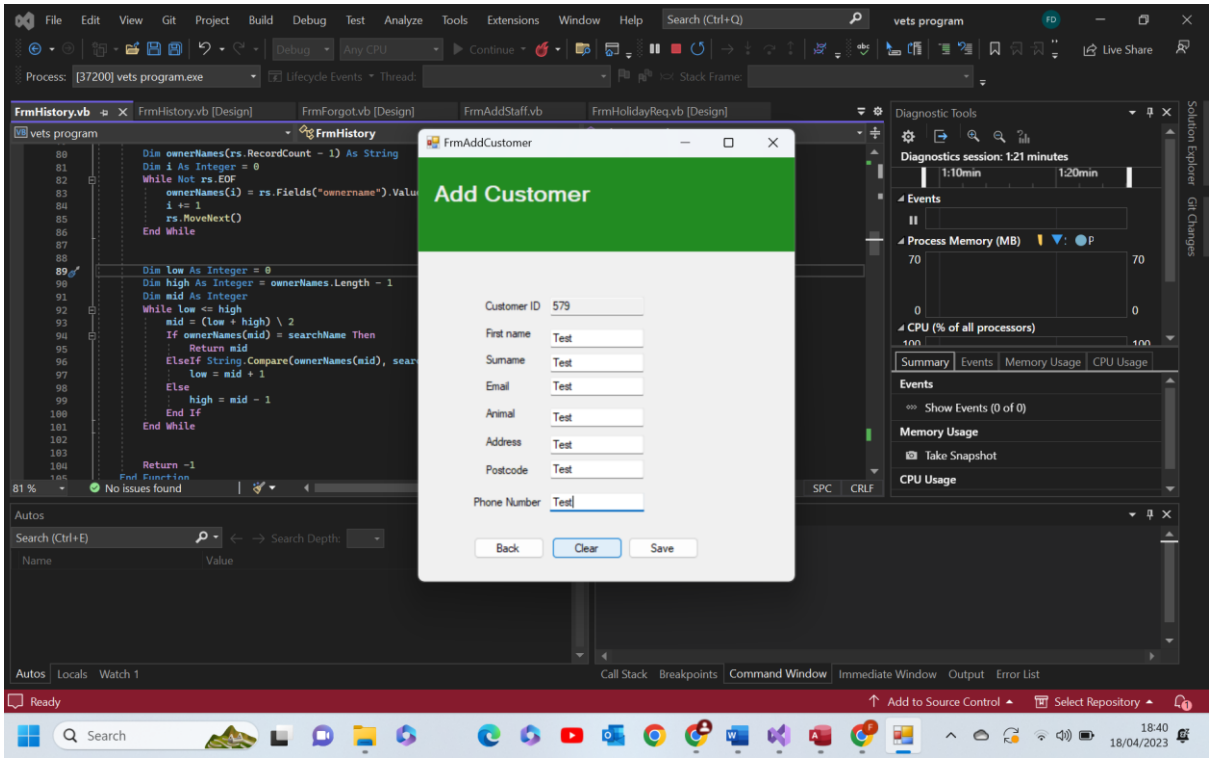
binary search algorithm is correctly implemented in the program. The BinarySearch function implements the binary search algorithm. It retrieves all the owner names from the tblbooking table and stores them in an array called ownerNames. It then uses a while loop to perform the binary search algorithm on the ownerNames array until it finds the index of the search value or determines that the value is not in the array. Pass

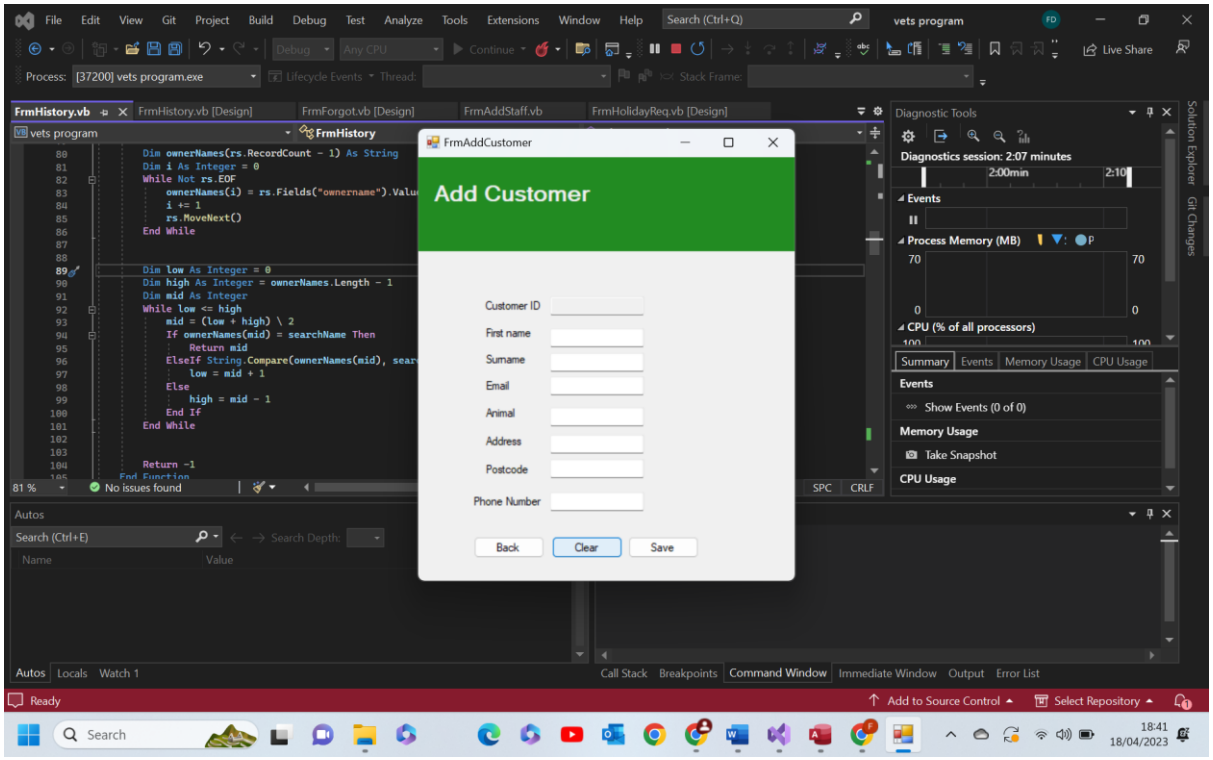
Test group 10- Add customer form:

Test number	Test data	Actual outcome	verdict	comments
1	Functional Clear pressed	All text boxes became void of any data	Pass	N/A
2	Valid data Functional Save pressed	If all presence checks were passed and the data is deemed valid the program read the info in the text boxes and wrote it into the appropriate table	Pass	N/A
3	Functional Back button pressed	Current form closed and main menu form appeared	Pass	N/A
4	Functional Extreme data in all text boxes	If any text boxes were left blank the program would output a message box with a warning and not save the data	Pass	N/A
5	Functional Invalid pre existing '123' specifically	If a new customer somehow had the same id as a pre existing one then the program would warn the user to generate a new ID and not save the inputted data	Pass	Could add a function where before generating a new ID the program would check if it already existed in the database.
6	Invalid data 'testATGmailDotCom' specifically	If the email was not of a correct format a message box would appear and	Pass	N/A

		the data would not be saved		
7	Invalid data ‘999’	If the phone number entered was not of a valid format then the program would output a message box and not allow the data to be saved	Pass	N/A
8	Functional form loaded	When the program loaded a random ID was generated and written into the text box	Pass	N/A

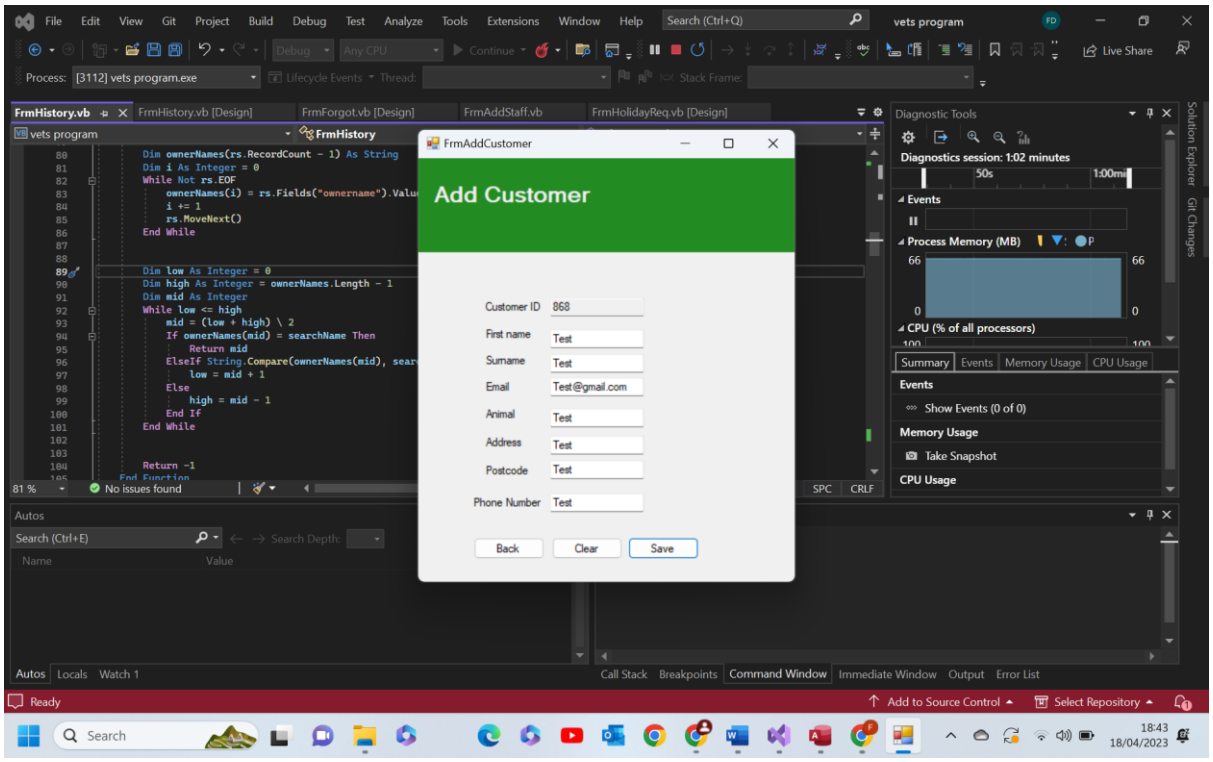
10.1-

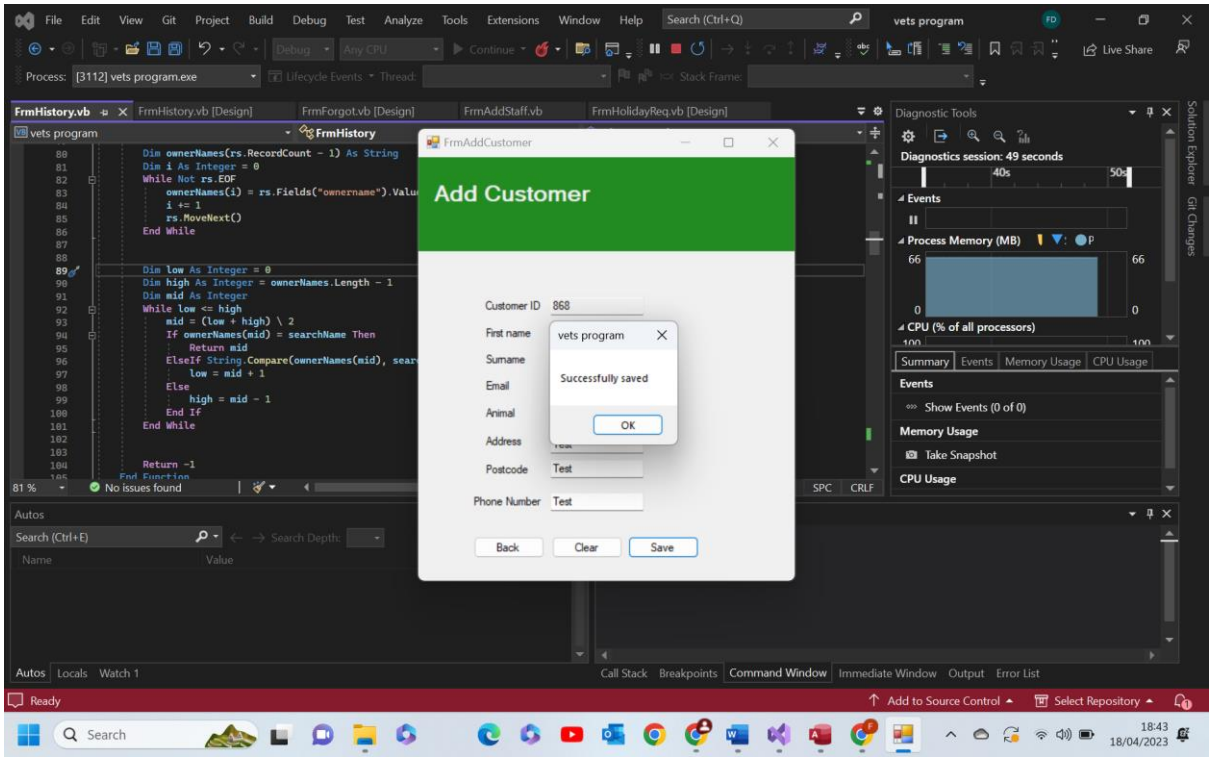


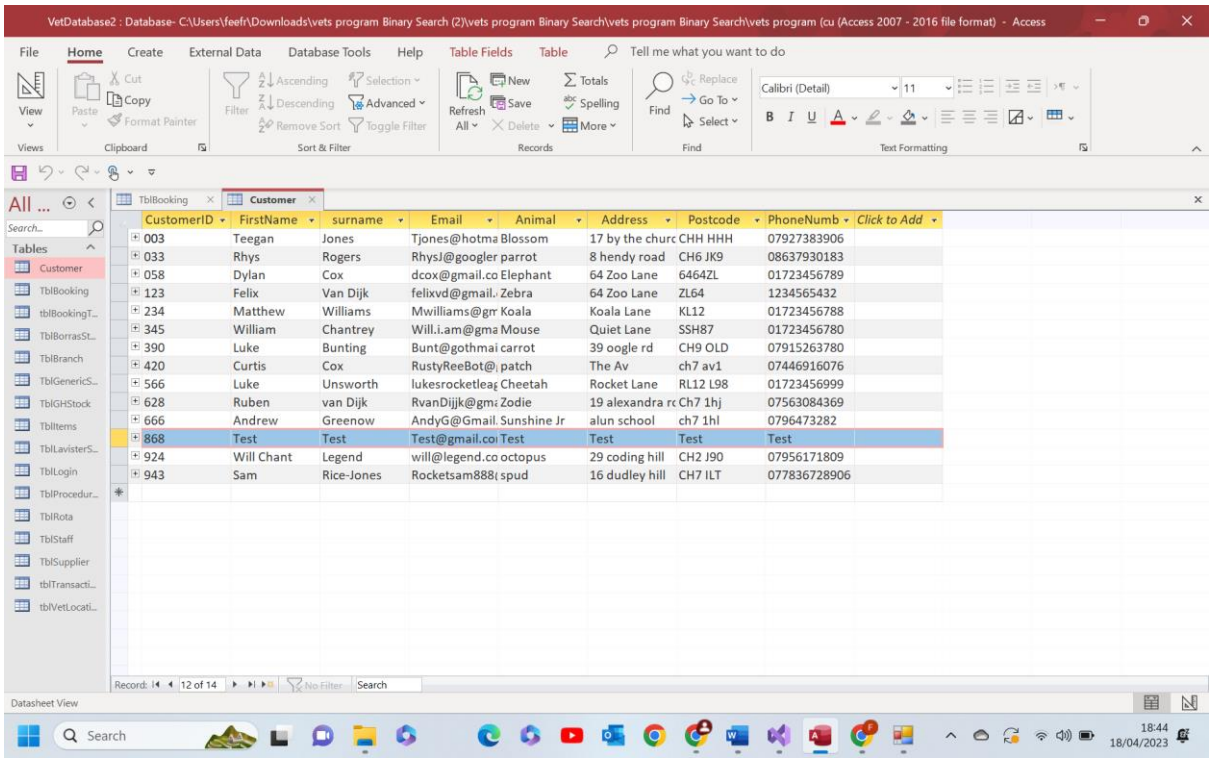


Test 10.1 comments- as we can see above when the clear button Is pressed all the text boxes become empty. Pass

10.2-

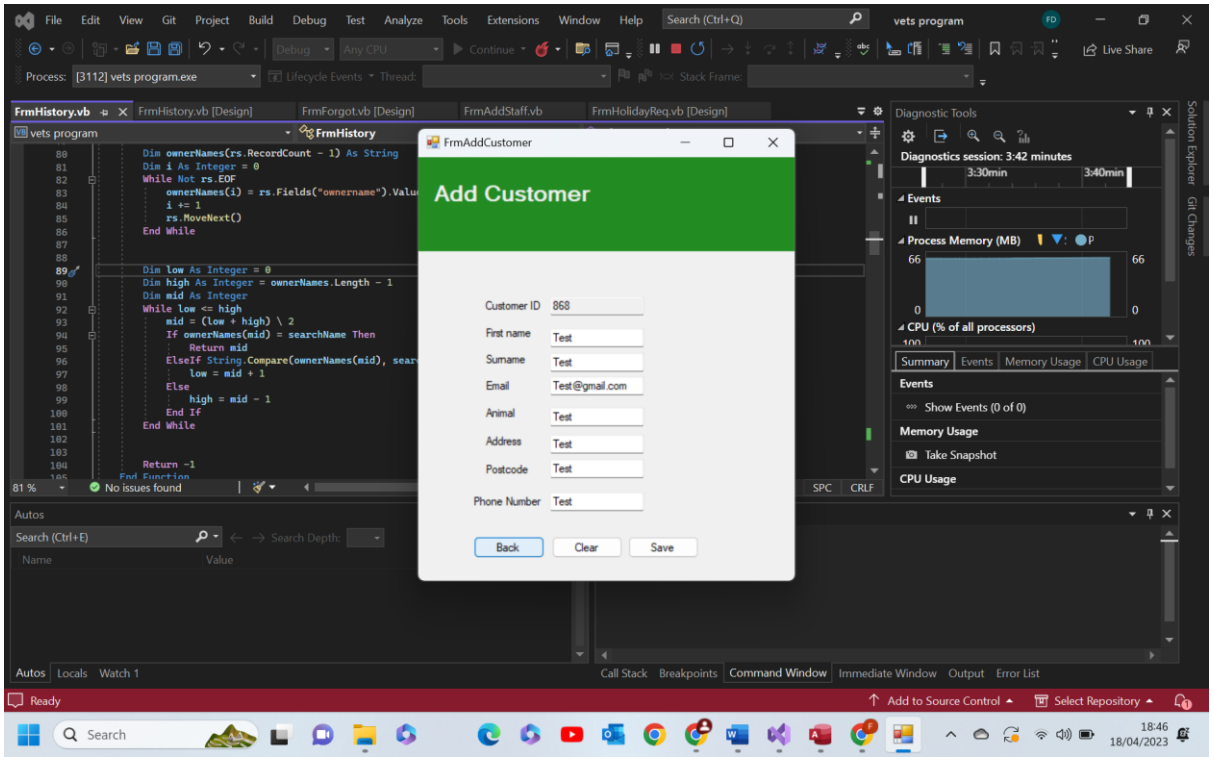


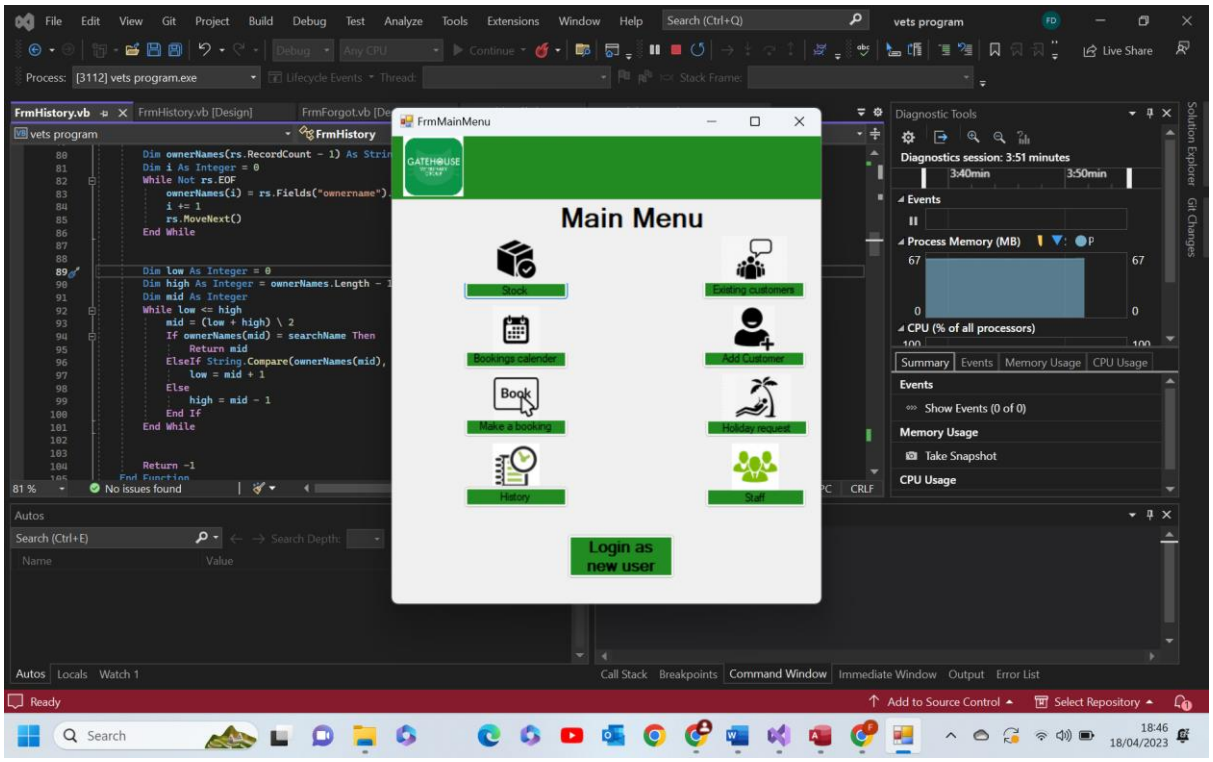




Test 10.2 comments- as we can see when the data inputted into the text boxes passed all of the validation checks and so is valid data, the program writes the information into the access database and outputs a message box. Pass

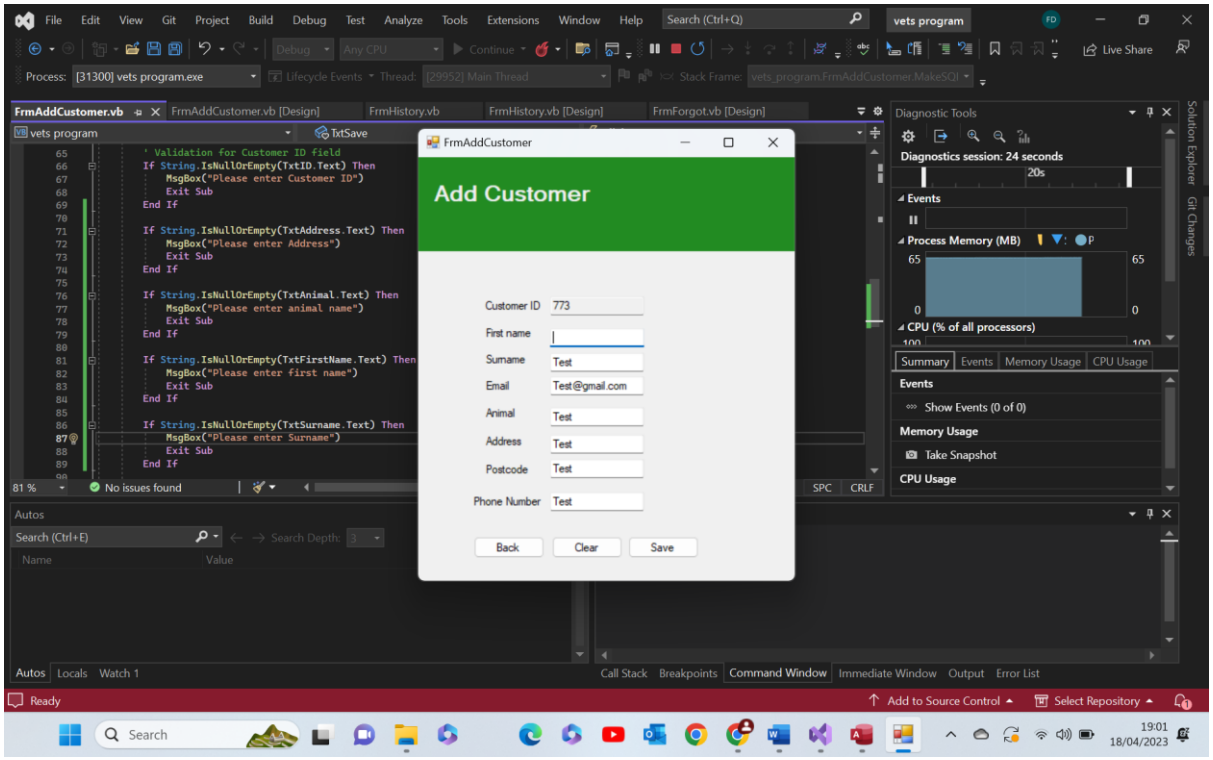
10.3-

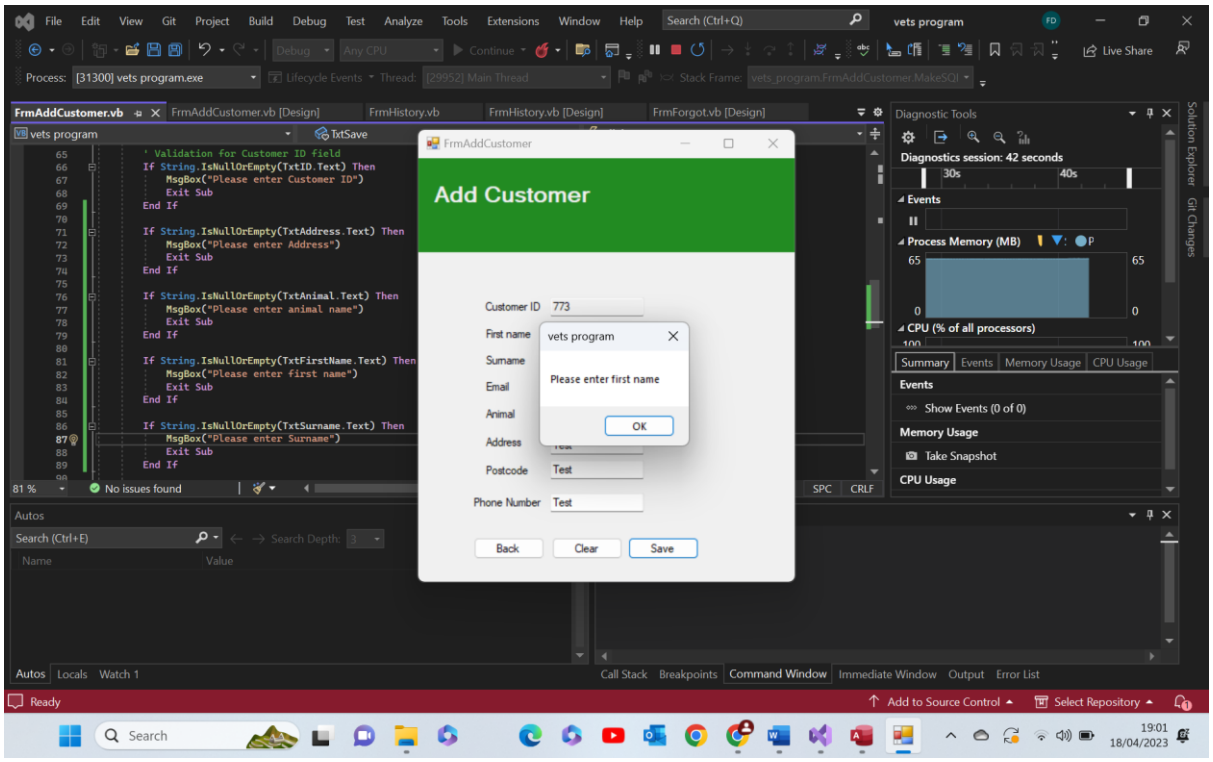


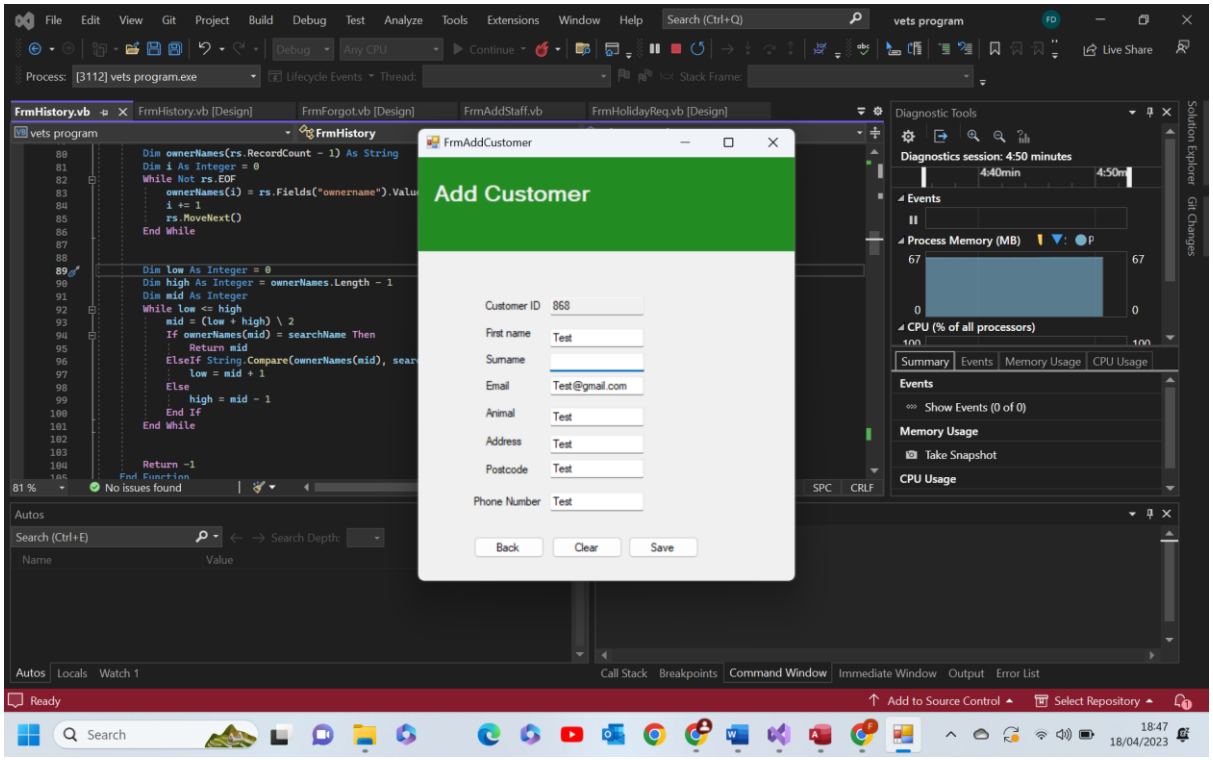


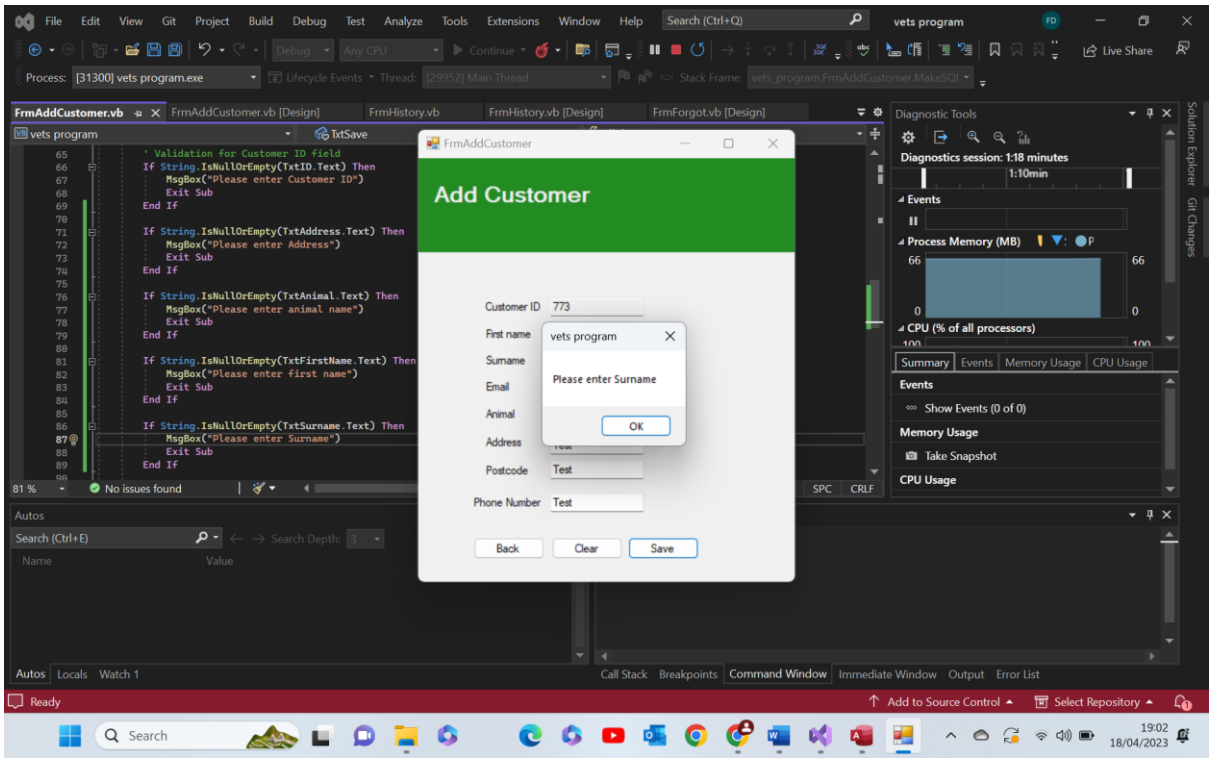
Test 10.3 comments- as we can see when the back button is selected the add customer form is hidden and the main menu appears. Pass

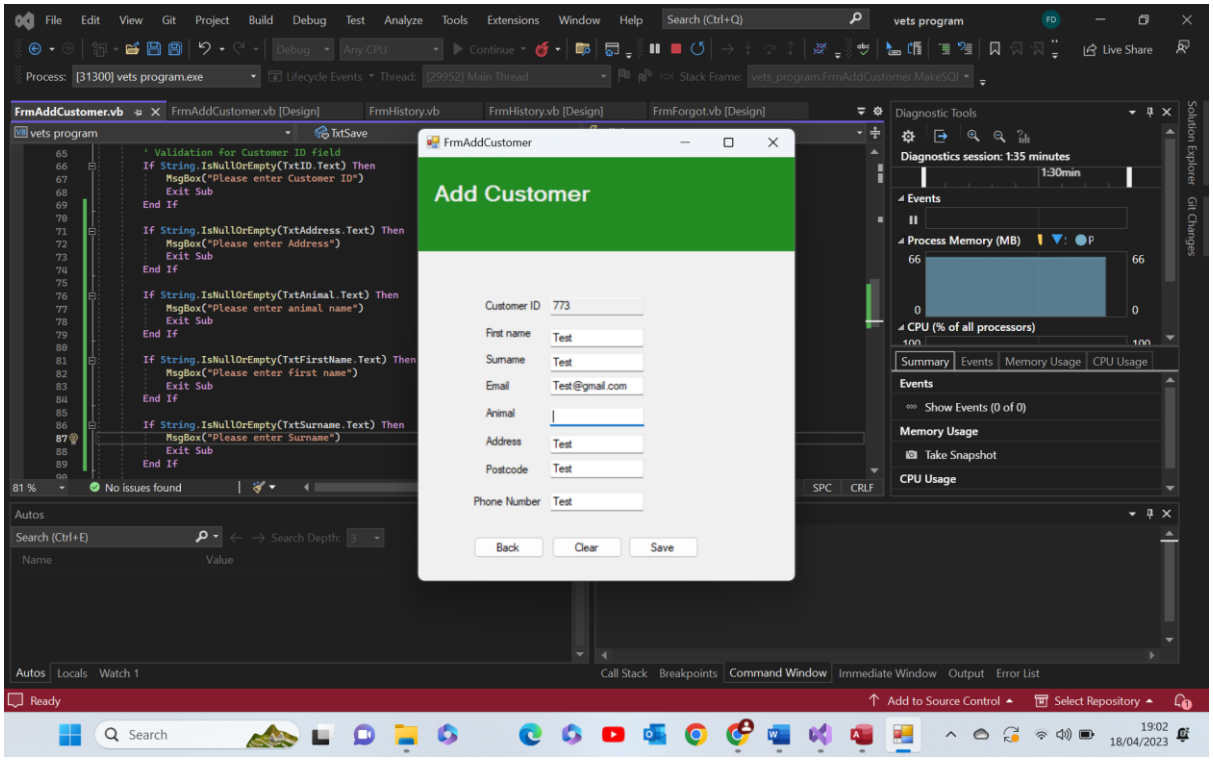
10.4-

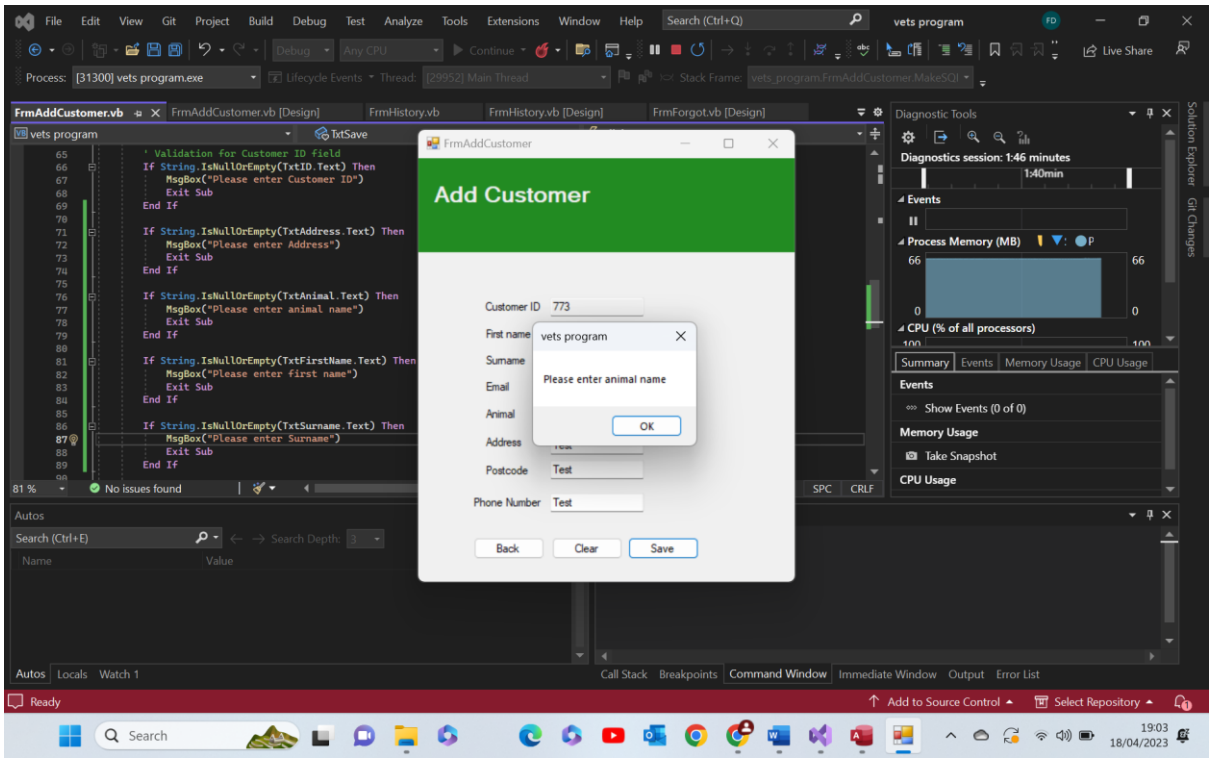

FrmAddCustomer
Add Customer
Customer ID 773
First name
Surname Test
Email Test@gmail.com
Animal Test
Address Test
Postcode Test
Phone Number Test
Back
Clear
Save


FrmAddCustomer
Add Customer
Customer ID 773
First name
Surname
Email
Animal
Address
Postcode Test
Phone Number Test
vets program
Please enter first name
OK
Back
Clear
Save


FrmAddCustomer
Add Customer
Customer ID 868
First name Test
Surname
Email Test@gmail.com
Animal Test
Address Test
Postcode Test
Phone Number Test
Back
Clear
Save

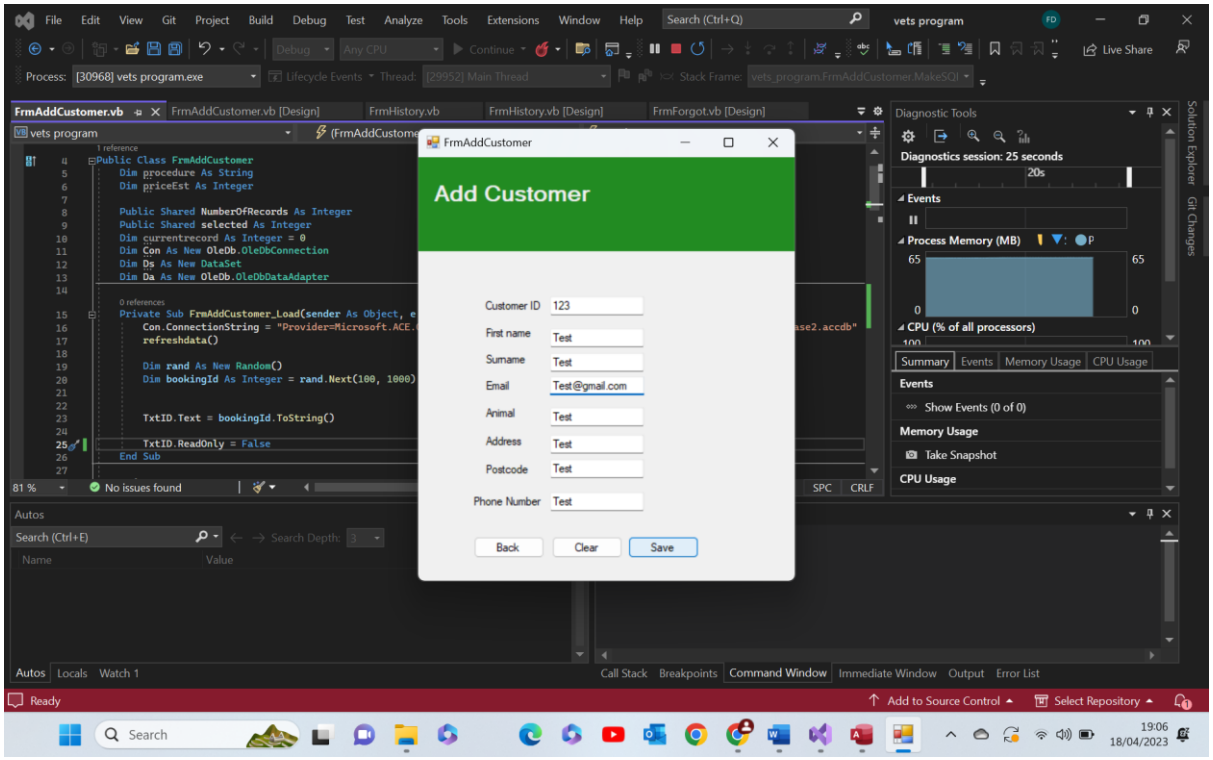

FrmAddCustomer
Add Customer
Customer ID 773
First name
Surname
Email
Animal
Address
Postcode Test
Phone Number Test
Back
Clear
Save
vets program
Please enter Surname
OK

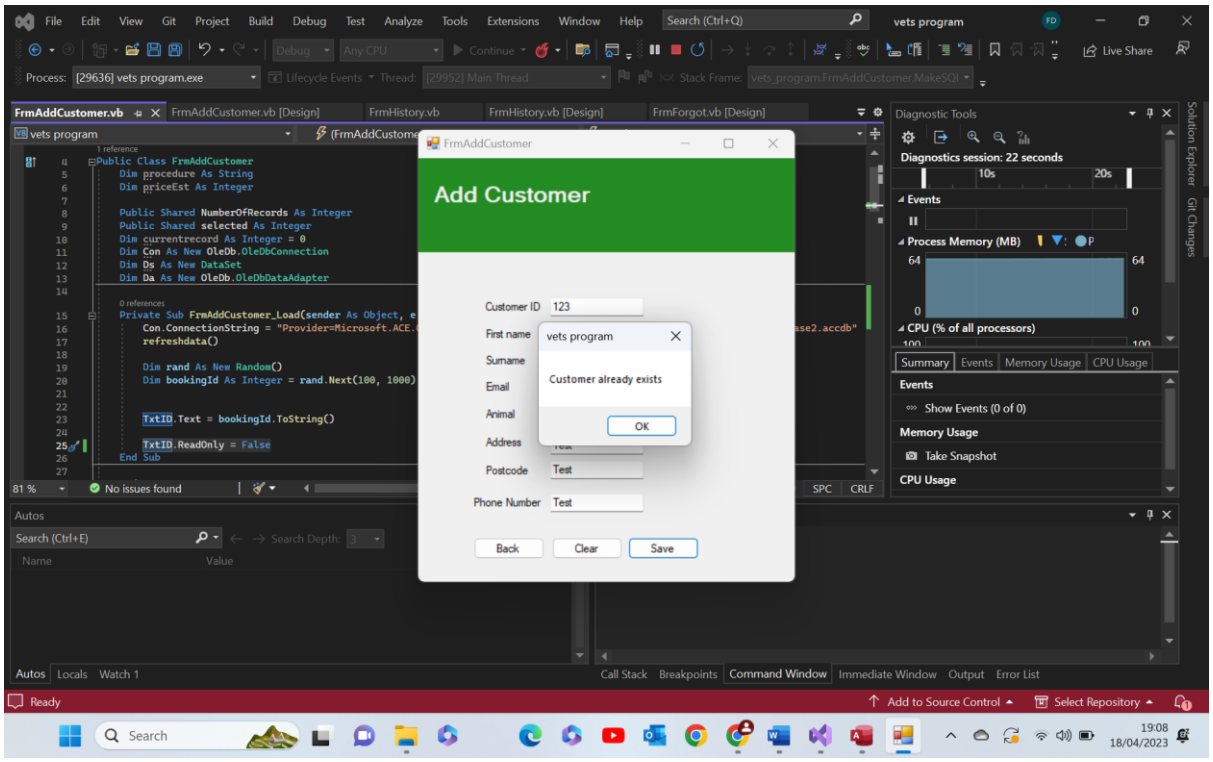


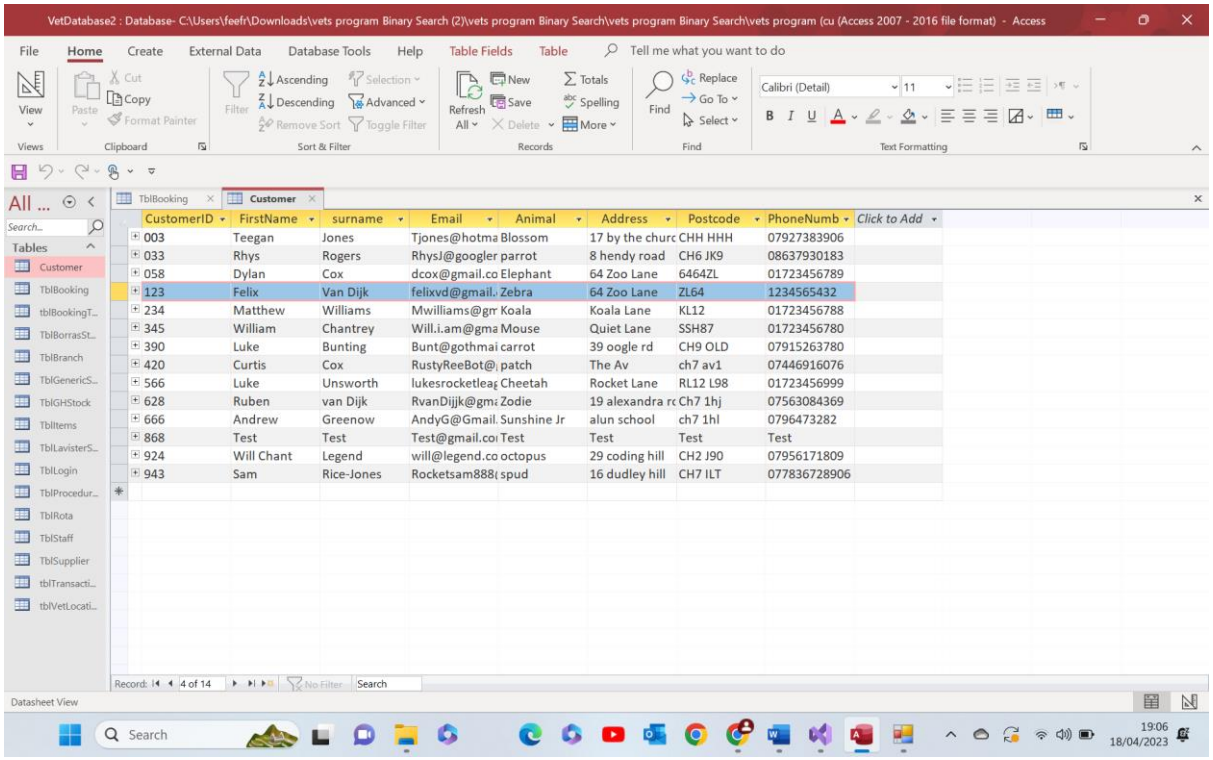


Test 10.4 comments- above I have shown a few examples of the presence check working on different random text boxes on the form. As we can see the program recognises the null data in the text box and so outputs a message box relating to the text box which has been left blank and does not save the data. Pass

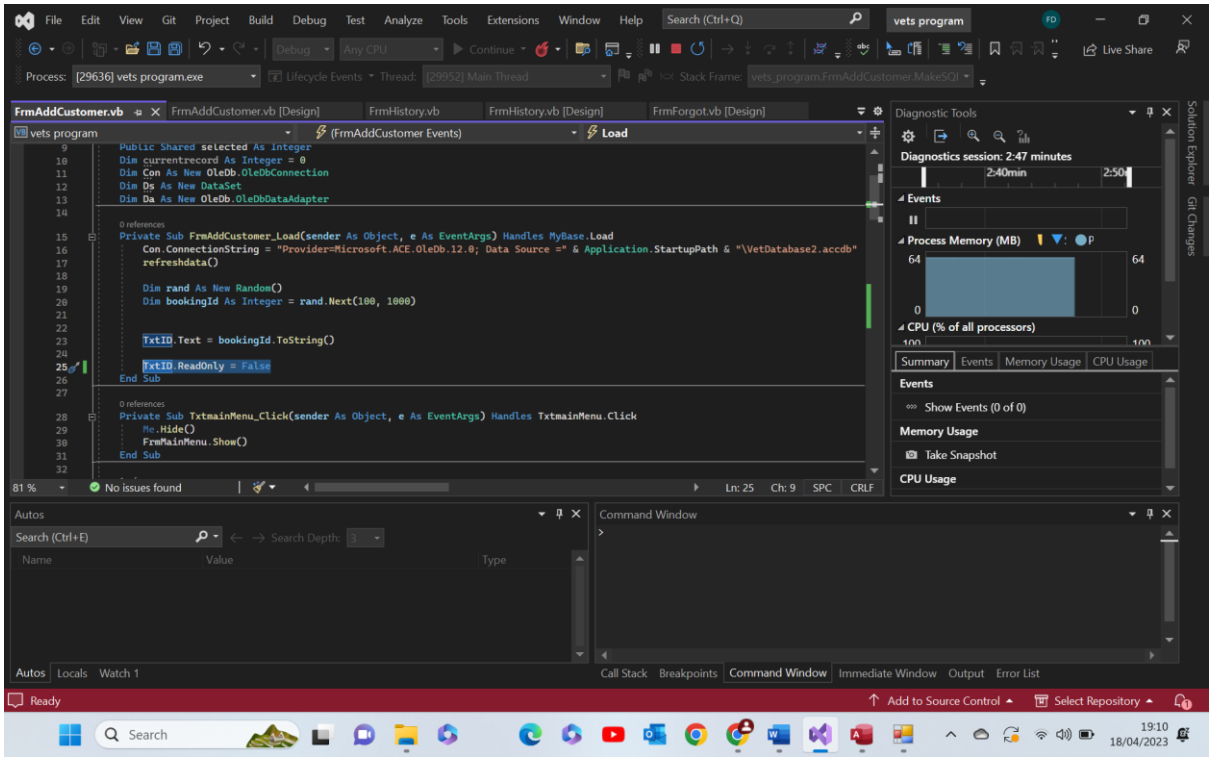
10.5-


FrmAddCustomer
Add Customer
Customer ID 123
First name Test
Surname Test
Email Test@gmail.com
Animal Test
Address Test
Postcode Test
Phone Number Test
Back
Clear
Save


FrmAddCustomer
Add Customer
Customer ID 123
First name
Surname
Email
Animal
Address
Postcode Test
Phone Number Test
vets program
Customer already exists
OK
Back
Clear
Save

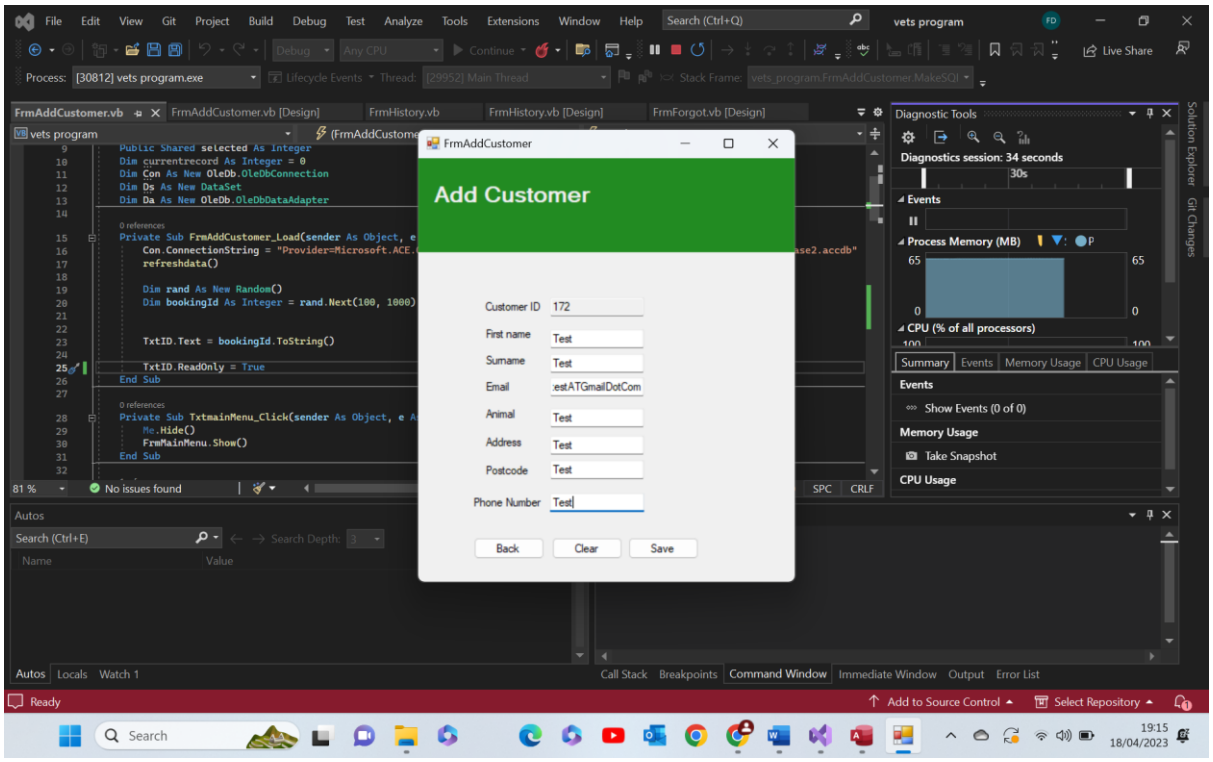


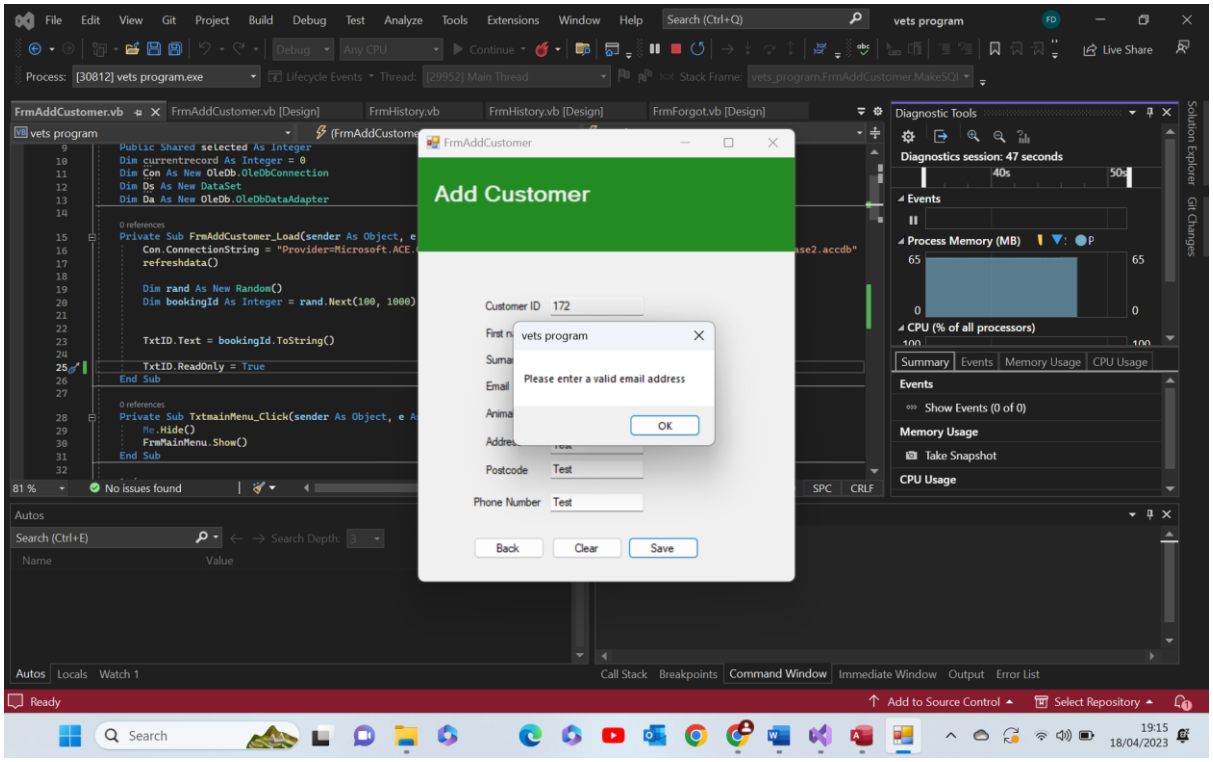
Test 10.5 comments- as we can see above of a new customer is attempted to be saved with a Customer ID that already exists the program recognises this, doesn't let the new record be saved and outputs a message box. As you can see above in the access file the ID '123' already exists and so the program will no allow for this record to be saved. In order to do this test I had to change the code to allow me to edit the ID box. I will show this alteration below. Pass



I needed to alter the statement to be false to allow me to edit the text box. If not I would have to keep generating random IDs until a pre existing one happened to appear.

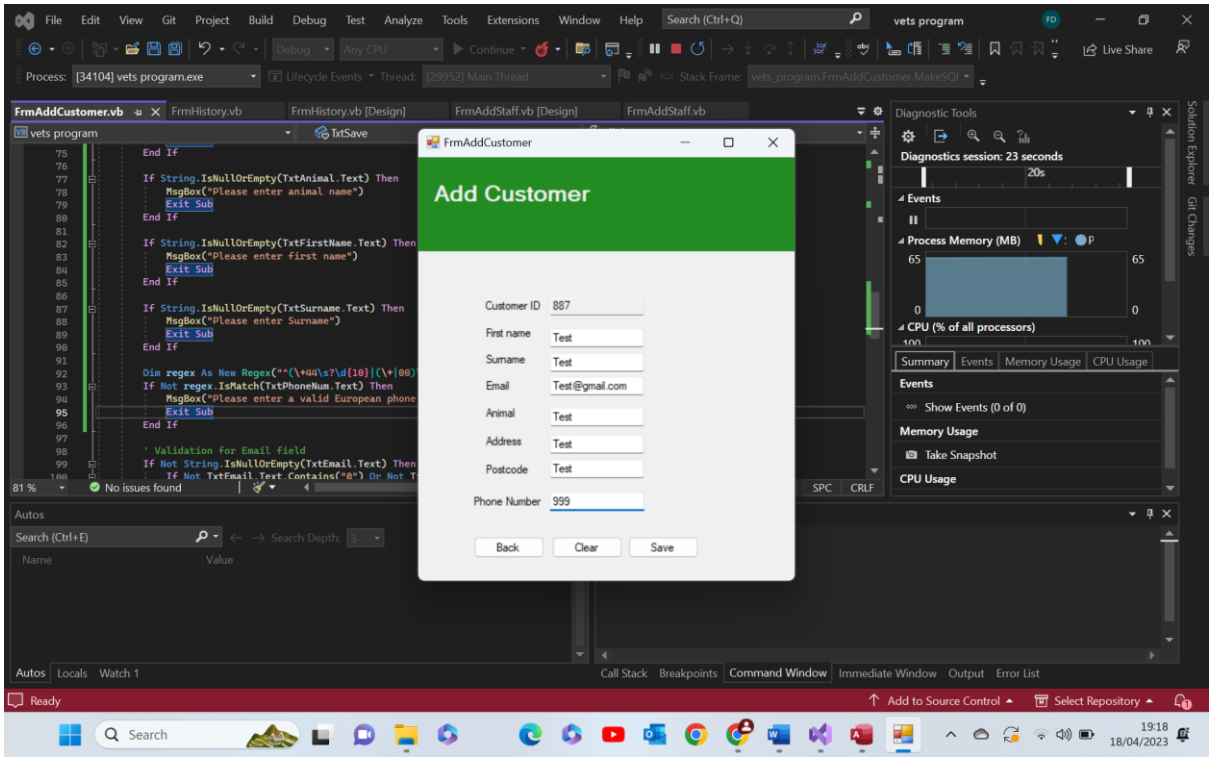
10.6-

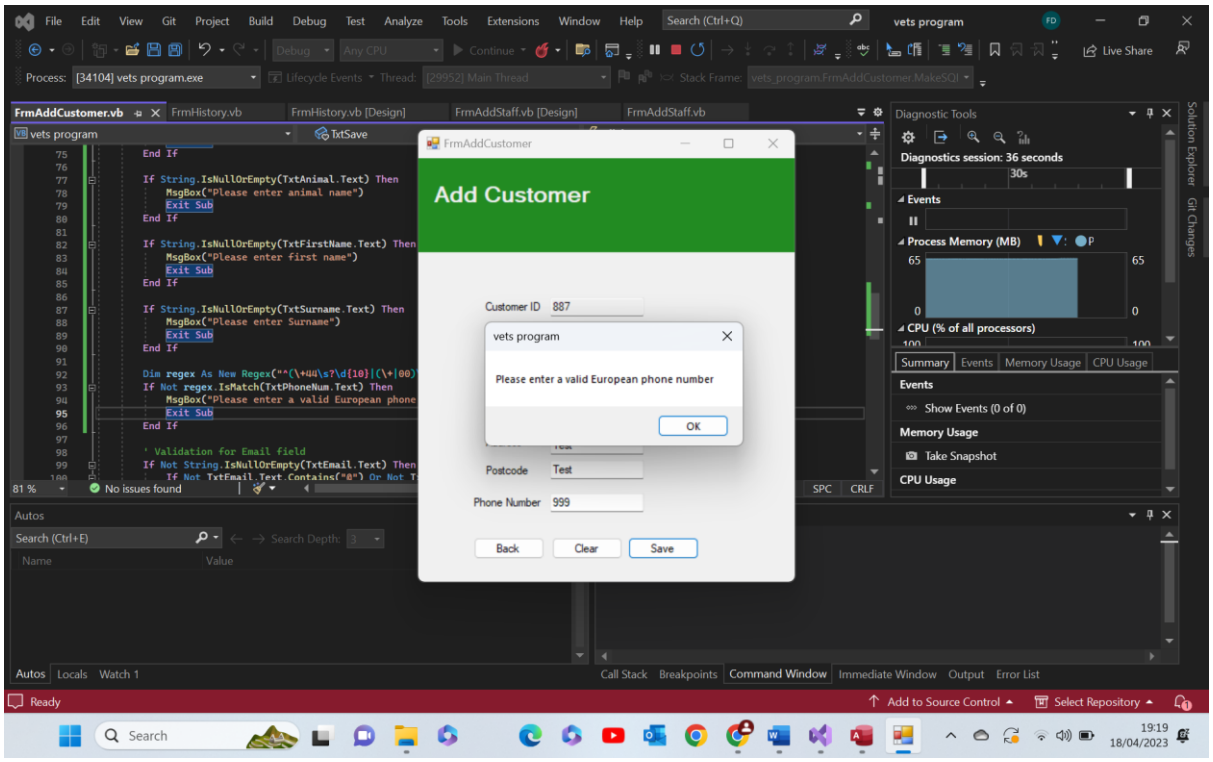




Test 10.6 comments-as we can see the email entered is not of the correct format and the program recognises this. The inputter data failed the format check and so the data was not saved and a message box was outputted. Pass

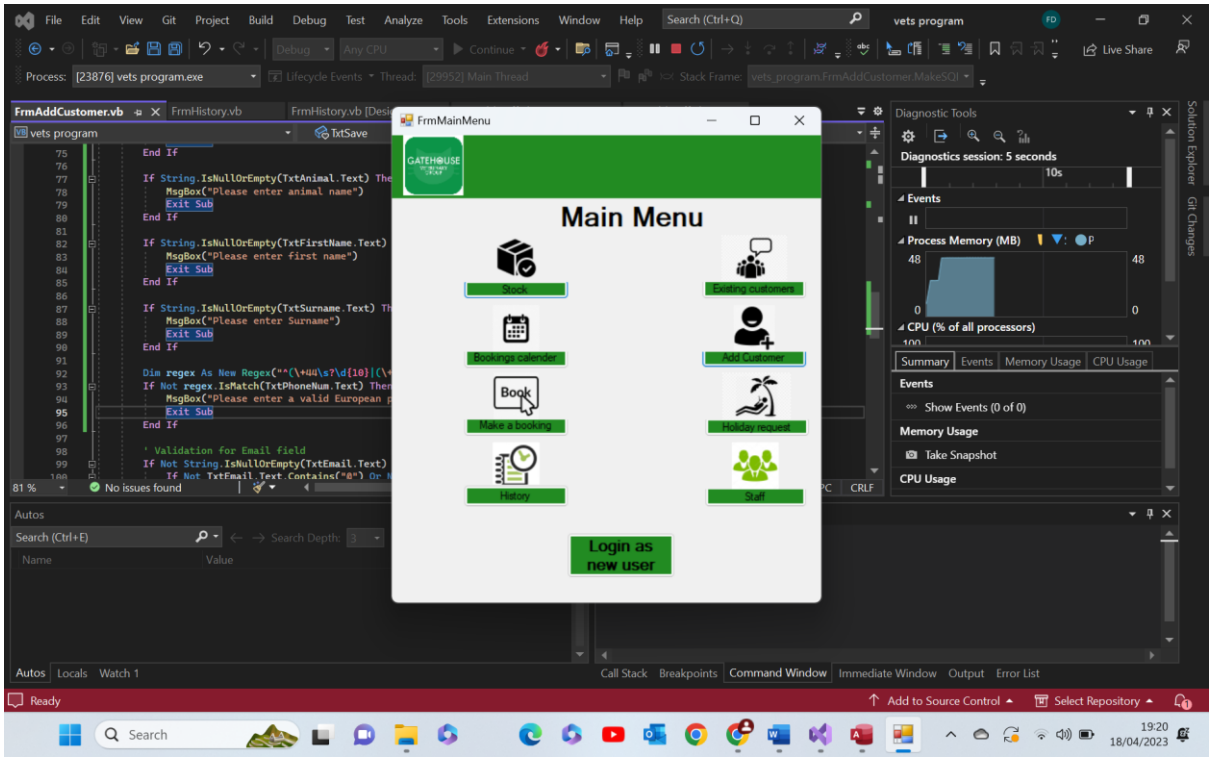
10.7-

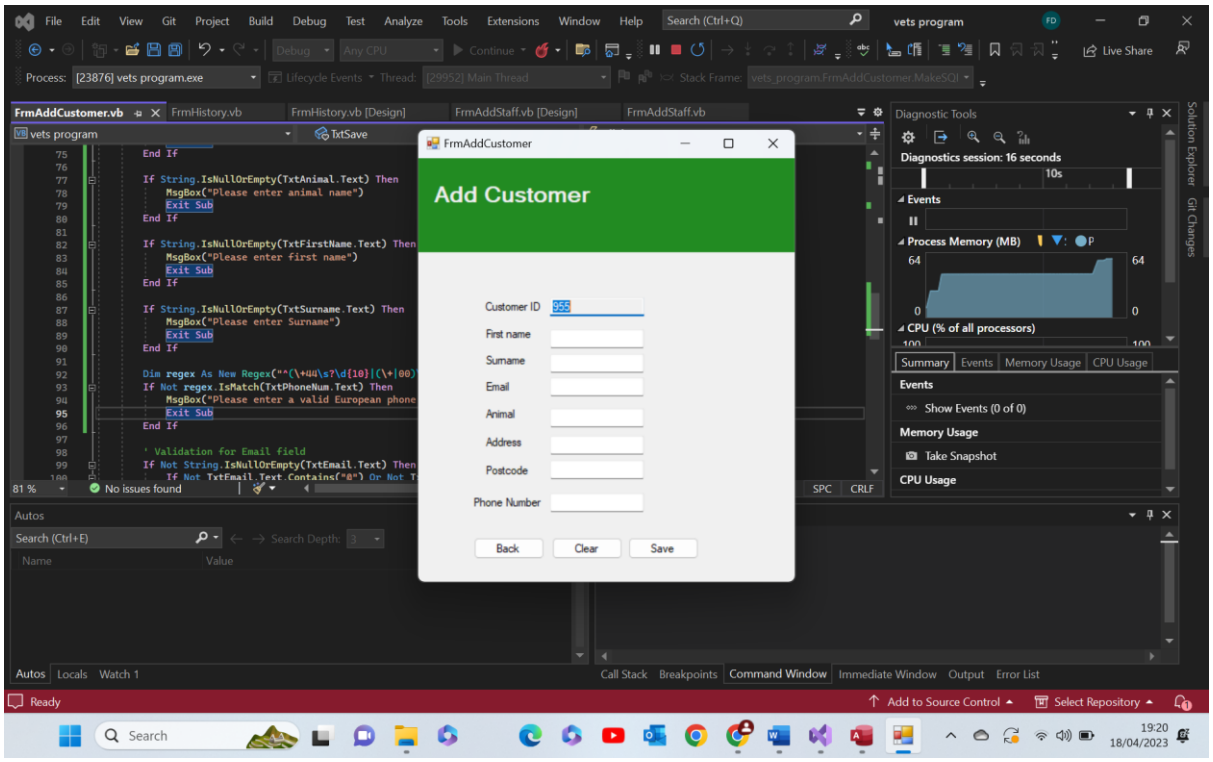




Test 10.7 comments- as we can see the inputted number was not a valid number for a customer to use and so it failed the format check validations, a message box was outputted and the data was not saved. Pass

10.8-





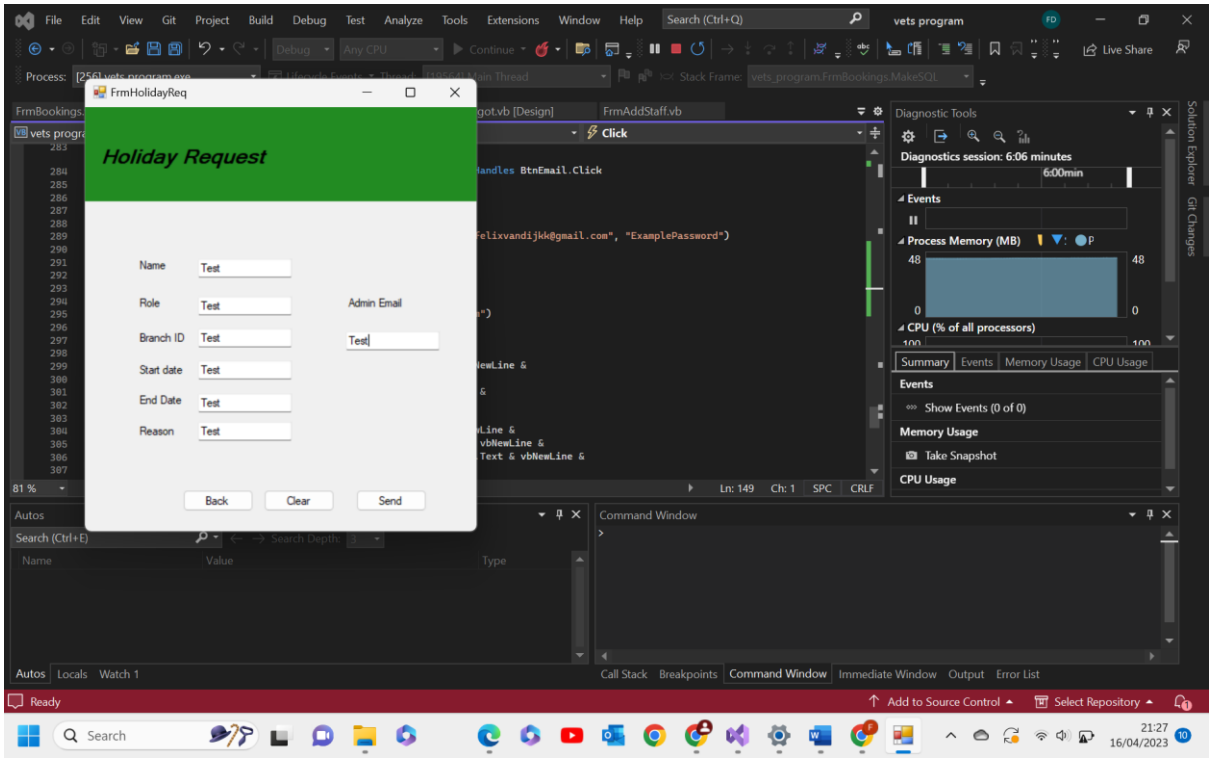
Test 10.8 comments-as we can see as soon as the form loads the text box has a random three digit ID assigned to it and is made read only so it cannot be tampered with. Pass

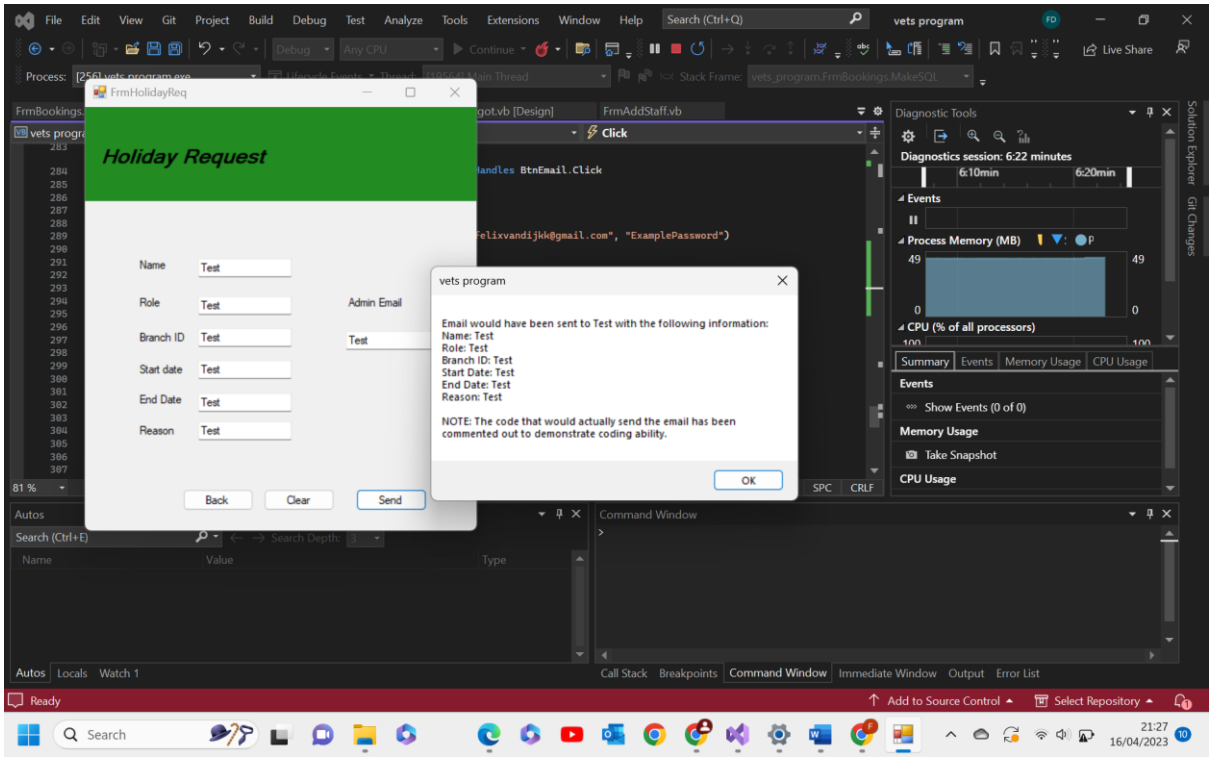
Test group 11- Holiday request form:

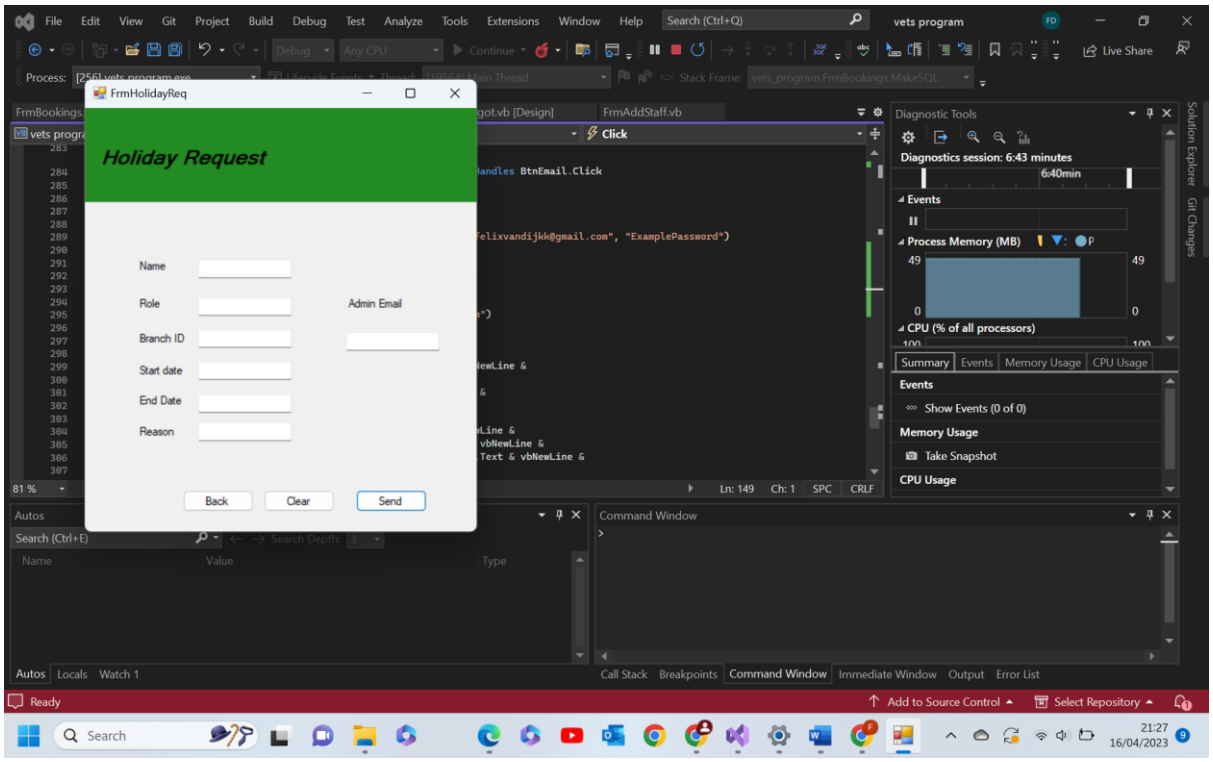
Test Number	Test Data	Actual outcome	Verdict	Comments
1	Valid data entered	As expected the info In the text boxes is sent to the	Pass	N/A

	All text boxes have 'Test' written in	**Admin for approval**		
2	**Functional test All text boxes have the word 'Test' inputted**	**All text boxes became void of data**	**Pass**	**N/A**
3	**Functional test**	**Current form closed and main menu form loaded**	**Pass**	**N/A**
4	**Extreme data entered**	**If any text boxes were left void of data an appropriate message box was displayed.**	**Pass**	**N/A**

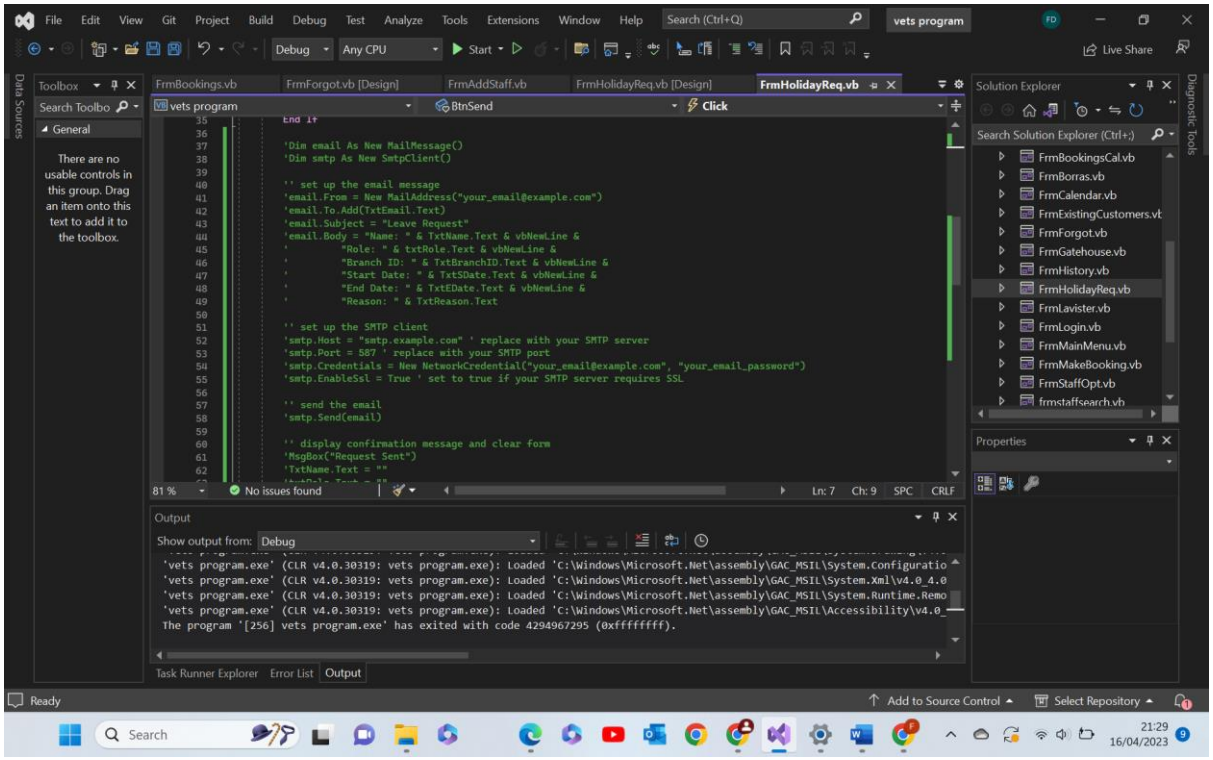
11.1-

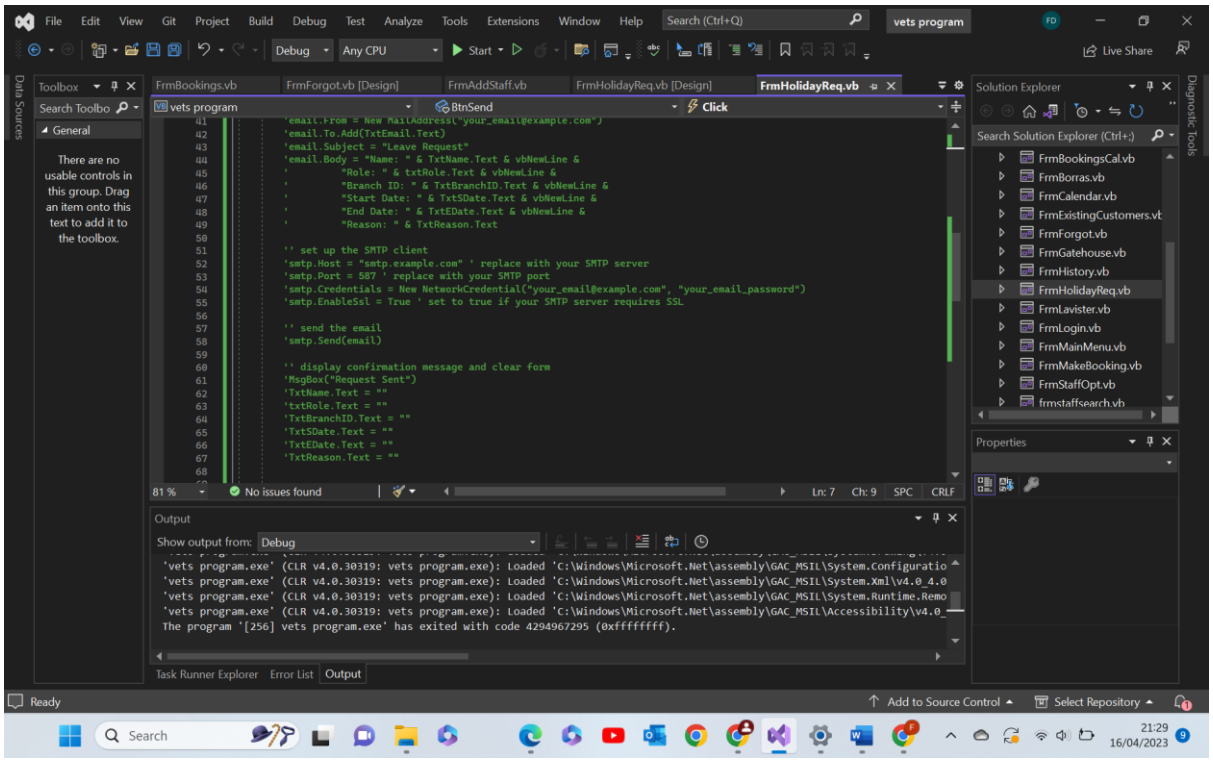




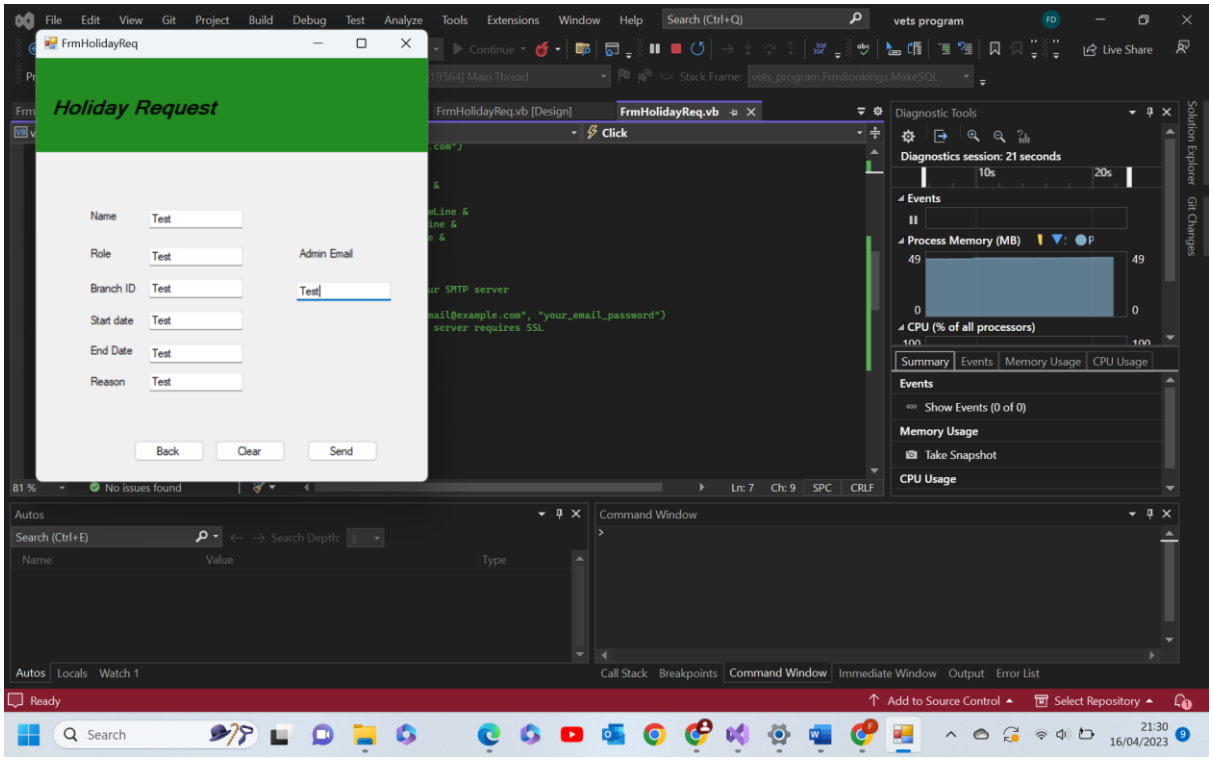


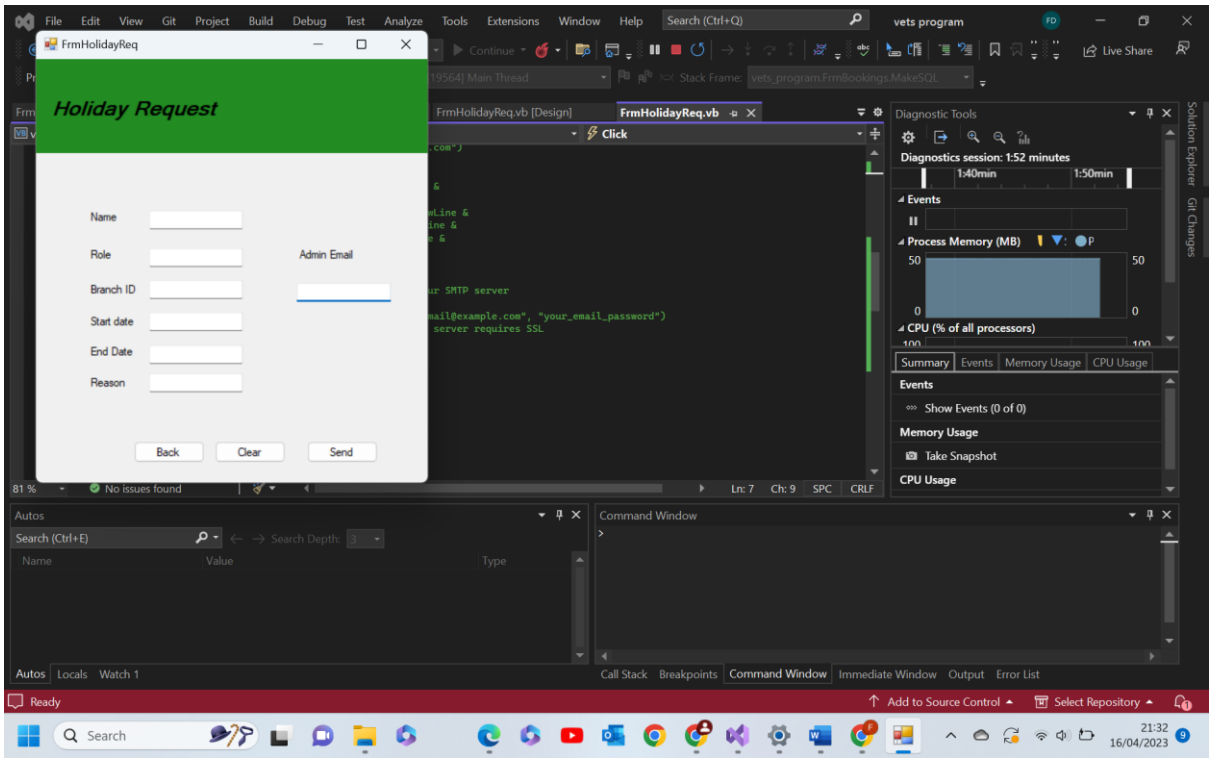
Test 11.1 comments- as we can see above when all boxes have data present in them the program will attempt to send an email to the admin. Of course this does not work so I have set up a message box to show what the email would look like. below I will show the code used for the email that has been commented out. Additionally above is shown that the text boxes become blank after the request has been sent to make it easier to send a new one. Pass


File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
vets program
Debug
Any CPU
Start
Live Share
FrmBookings.vb
FrmForgot.vb [Design]
FrmAddStaff.vb
FrmHolidayReq.vb [Design]
FrmHolidayReq.vb
vets program
BtnSend
Click
'Dim email As New MailMessage()
'Dim smtp As New SmtpClient()
'' set up the email message
'email.From = New MailAddress("your_email@example.com")
'email.To.Add(TxtEmail.Text)
'email.Subject = "Leave Request"
'email.Body = "Name: " & TxtName.Text & vbNewLine &
'Role: " & txtRole.Text & vbNewLine &
'Branch ID: " & TxtBranchID.Text & vbNewLine &
'Start Date: " & TxtSDate.Text & vbNewLine &
'End Date: " & TxtEDate.Text & vbNewLine &
'Reason: " & TxtReason.Text
'' set up the SMTP client
'smtp.Host = "smtp.example.com" ' replace with your SMTP server
'smtp.Port = 587 ' replace with your SMTP port
'smtp.Credentials = New NetworkCredential("your_email@example.com", "your_email_password")
'smtp.EnableSsl = True ' set to true if your SMTP server requires SSL
'' send the email
'smtp.Send(email)
'' display confirmation message and clear form
'MsgBox("Request Sent")
'TxtName.Text = ""
No issues found
Ln: 7 Ch: 9 SPC CRLF
Output
Show output from: Debug
'vets program.exe' (CLR v4.0.30319: vets program.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\System.Configuratio
'vets program.exe' (CLR v4.0.30319: vets program.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\System.Xml\v4.0_4.0
'vets program.exe' (CLR v4.0.30319: vets program.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\System.Runtime.Remo
'vets program.exe' (CLR v4.0.30319: vets program.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\Accessibility\v4.0_
The program '[256] vets program.exe' has exited with code 4294967295 (0xffffffff).
Task Runner Explorer Error List Output
Ready
Add to Source Control
Select Repository
Solution Explorer
FrmBookingsCal.vb
FrmBorras.vb
FrmCalendar.vb
FrmExistingCustomers.vb
FrmForgot.vb
FrmGatehouse.vb
FrmHistory.vb
FrmHolidayReq.vb
FrmLavister.vb
FrmLogin.vb
FrmMainMenu.vb
FrmMakeBooking.vb
FrmStaffOpt.vb
Properties
Search
21:29
16/04/2023


File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
vets program
Debug
Any CPU
Start
Live Share
FrmBookings.vb
FrmForgot.vb [Design]
FrmAddStaff.vb
FrmHolidayReq.vb [Design]
FrmHolidayReq.vb
vets program
BtnSend
Click
'email.From = New MailAddress("your_email@example.com")
'email.To.Add(TxtEmail.Text)
'email.Subject = "Leave Request"
'email.Body = "Name: " & TxtName.Text & vbNewLine &
'Role: " & txtRole.Text & vbNewLine &
'Branch ID: " & TxtBranchID.Text & vbNewLine &
'Start Date: " & TxtSDate.Text & vbNewLine &
'End Date: " & TxtEDate.Text & vbNewLine &
'Reason: " & TxtReason.Text
'' set up the SMTP client
'smtp.Host = "smtp.example.com" ' replace with your SMTP server
'smtp.Port = 587 ' replace with your SMTP port
'smtp.Credentials = New NetworkCredential("your_email@example.com", "your_email_password")
'smtp.EnableSsl = True ' set to true if your SMTP server requires SSL
'' send the email
'smtp.Send(email)
'' display confirmation message and clear form
'MsgBox("Request Sent")
'TxtName.Text = ""
'txtRole.Text = ""
'TxtBranchID.Text = ""
'TxtSDate.Text = ""
'TxtEDate.Text = ""
'TxtReason.Text = ""
No issues found
Ln: 7 Ch: 9 SPC CRLF
Output
Show output from: Debug
'vets program.exe' (CLR v4.0.30319: vets program.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\System.Configuratio
'vets program.exe' (CLR v4.0.30319: vets program.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\System.Xml\v4.0_4.0
'vets program.exe' (CLR v4.0.30319: vets program.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\System.Runtime.Remo
'vets program.exe' (CLR v4.0.30319: vets program.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\Accessibility\v4.0_
The program '[256] vets program.exe' has exited with code 4294967295 (0xffffffff).
Task Runner Explorer Error List Output
Ready
Add to Source Control
Select Repository
Solution Explorer
FrmBookingsCal.vb
FrmBorras.vb
FrmCalendar.vb
FrmExistingCustomers.vb
FrmForgot.vb
FrmGatehouse.vb
FrmHistory.vb
FrmHolidayReq.vb
FrmLavister.vb
FrmLogin.vb
FrmMainMenu.vb
FrmMakeBooking.vb
FrmStaffOpt.vb
Properties
Search
21:29
16/04/2023

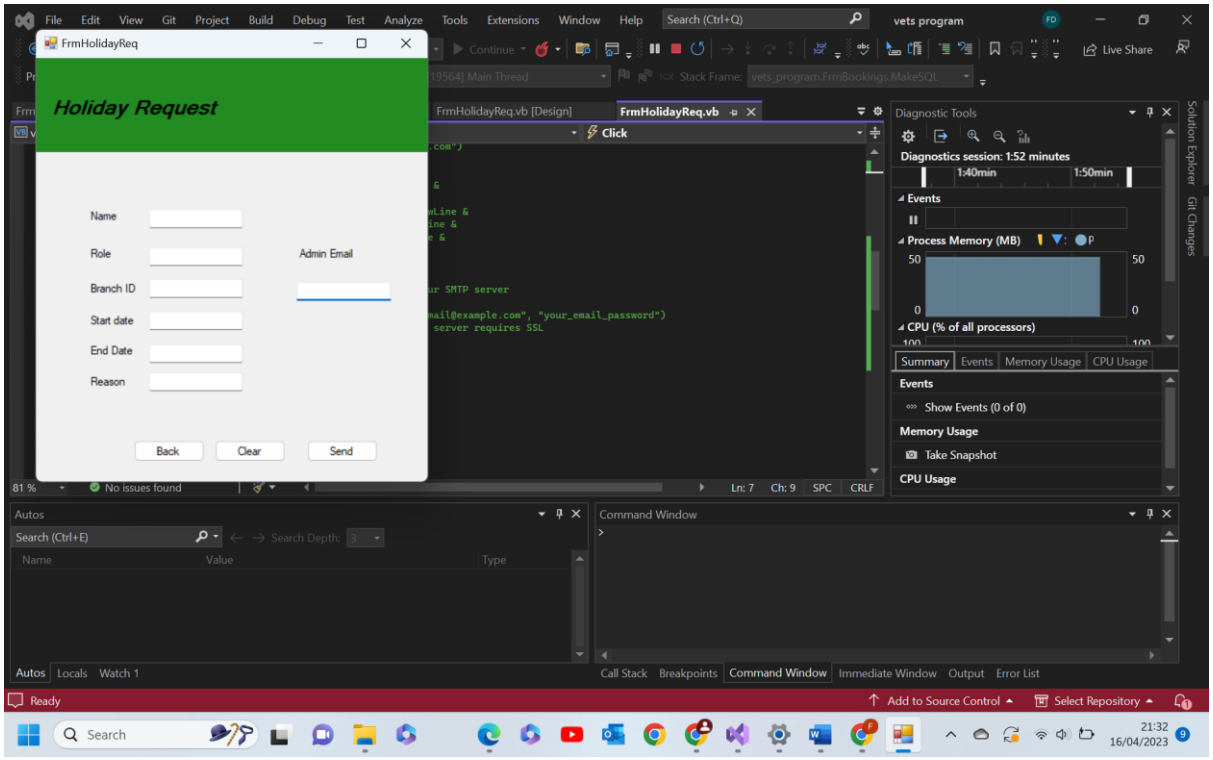
11.2-

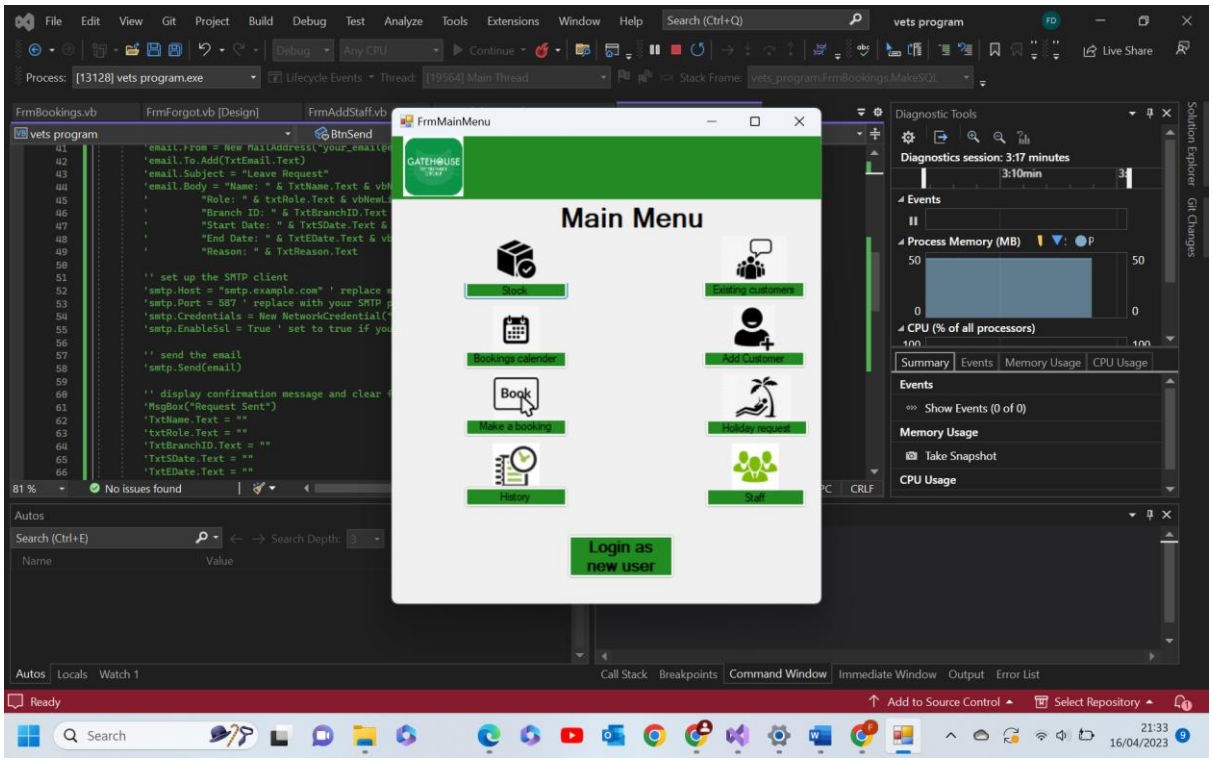




Test 11.2 comments- as we can see above when the clear button is pressed al text boxes are set = “” and so become void of data. Pass

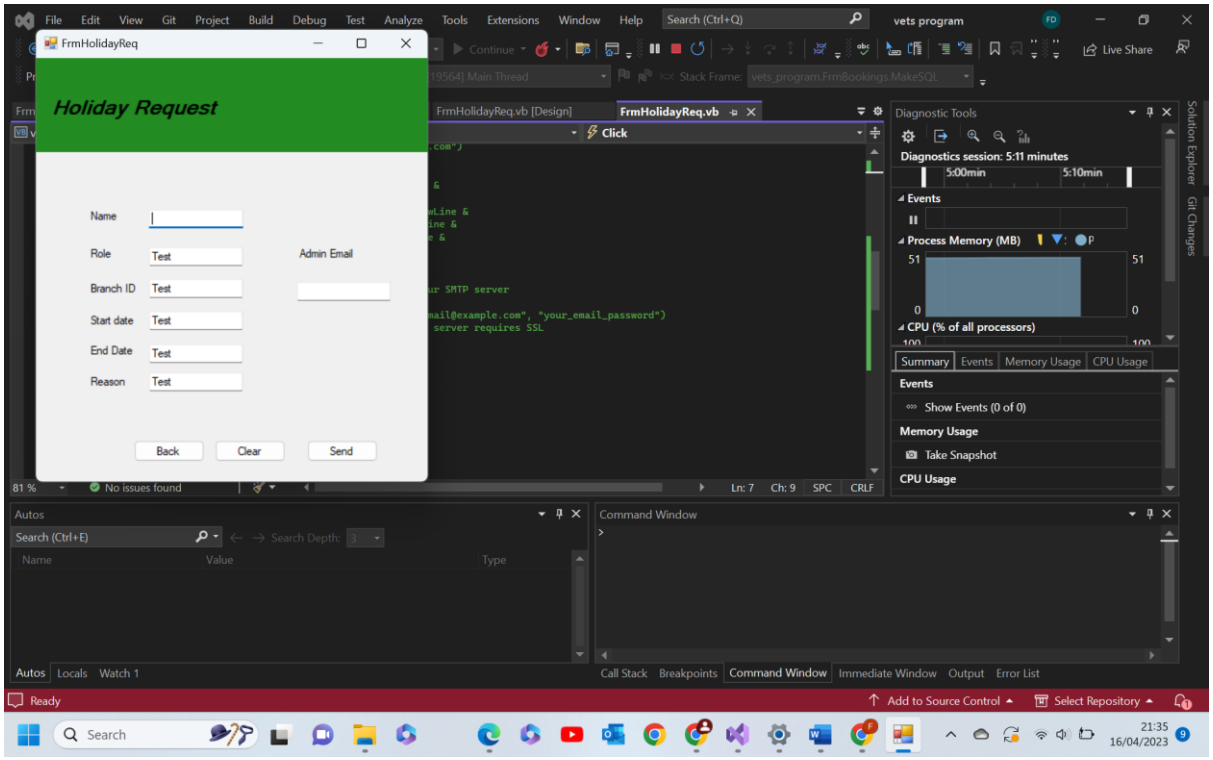
11.3-

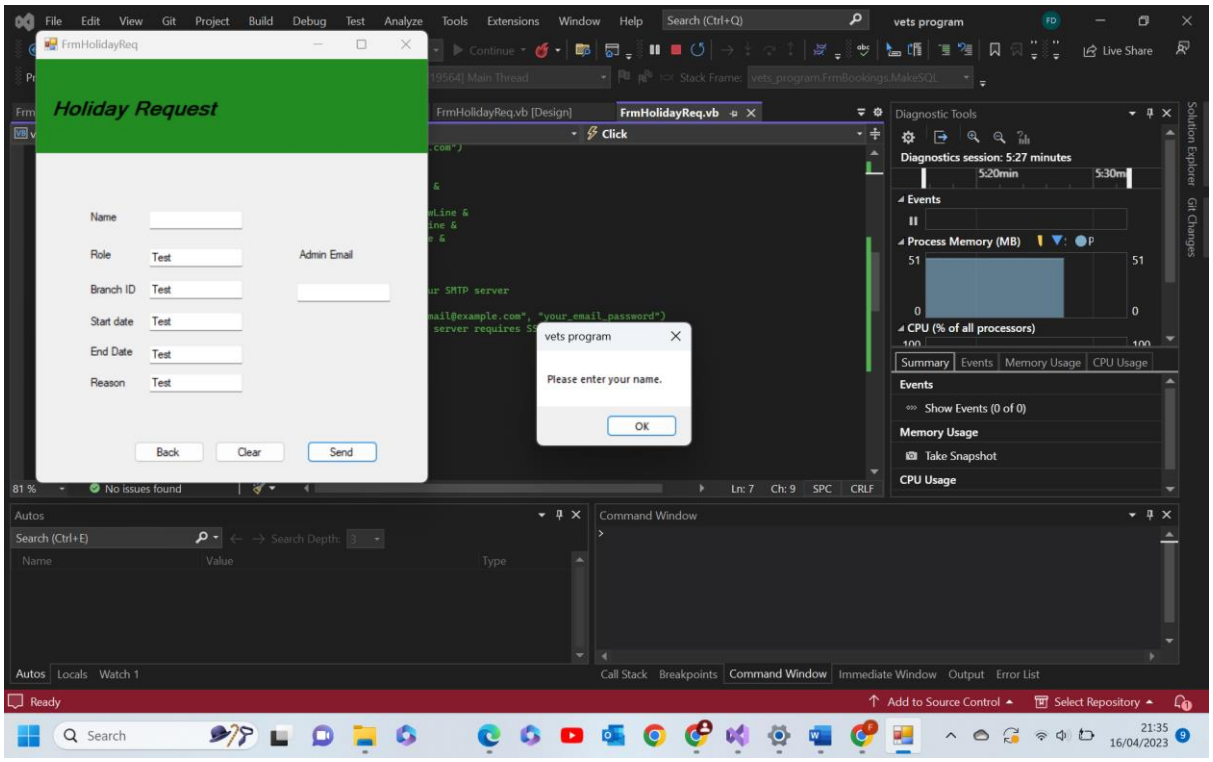




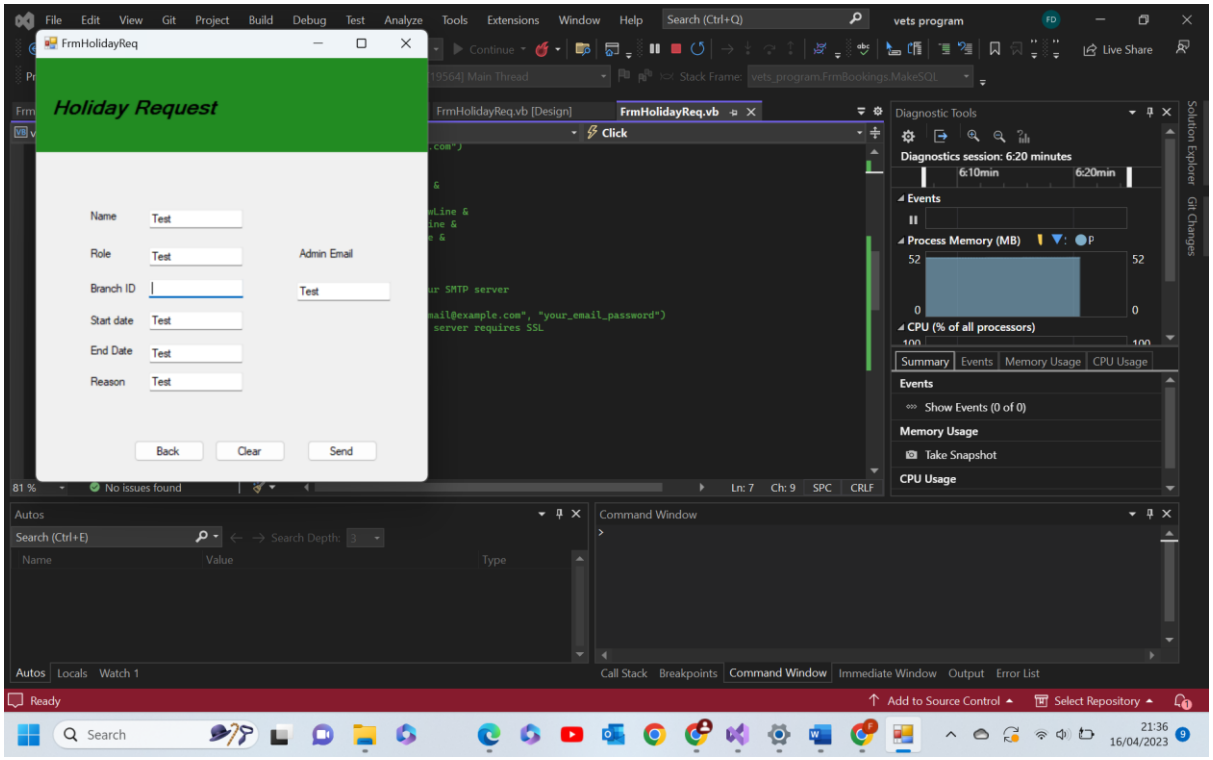
Test 11.3 comments- as we can see above when the back button is pressed the current form is hidden and the main menu form is shown. Pass

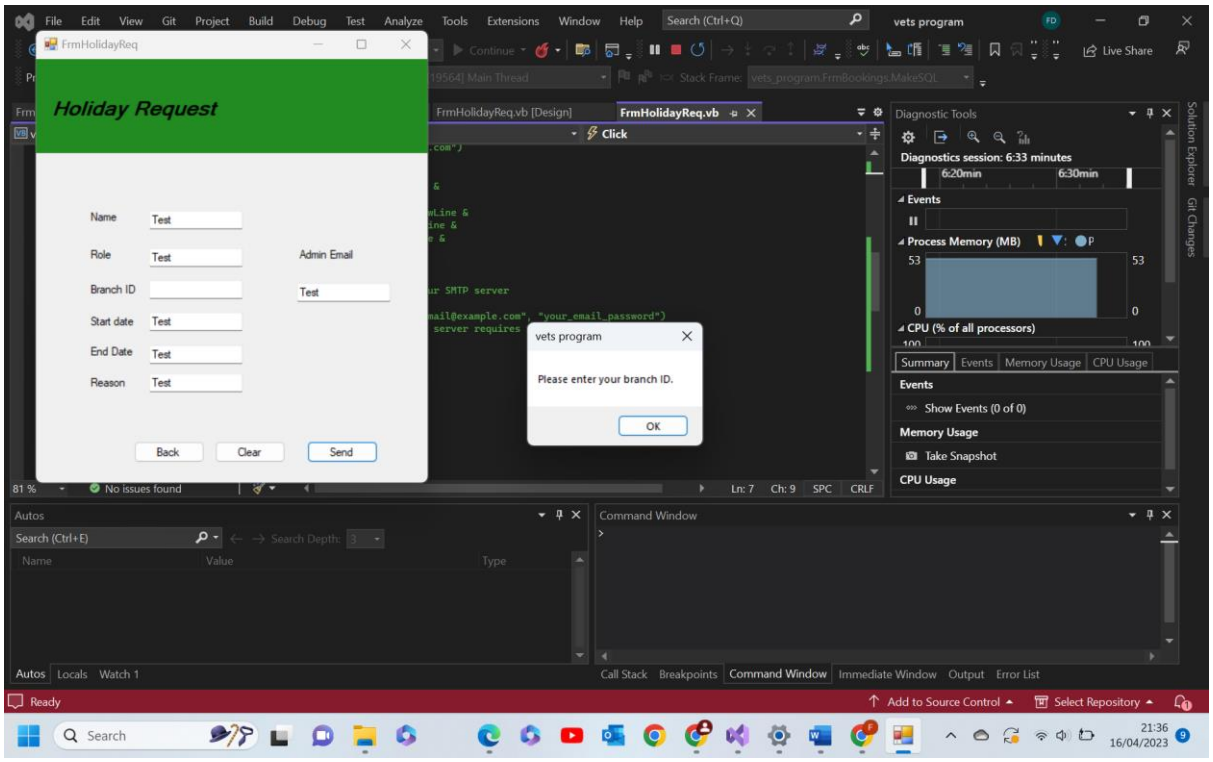
11.4-



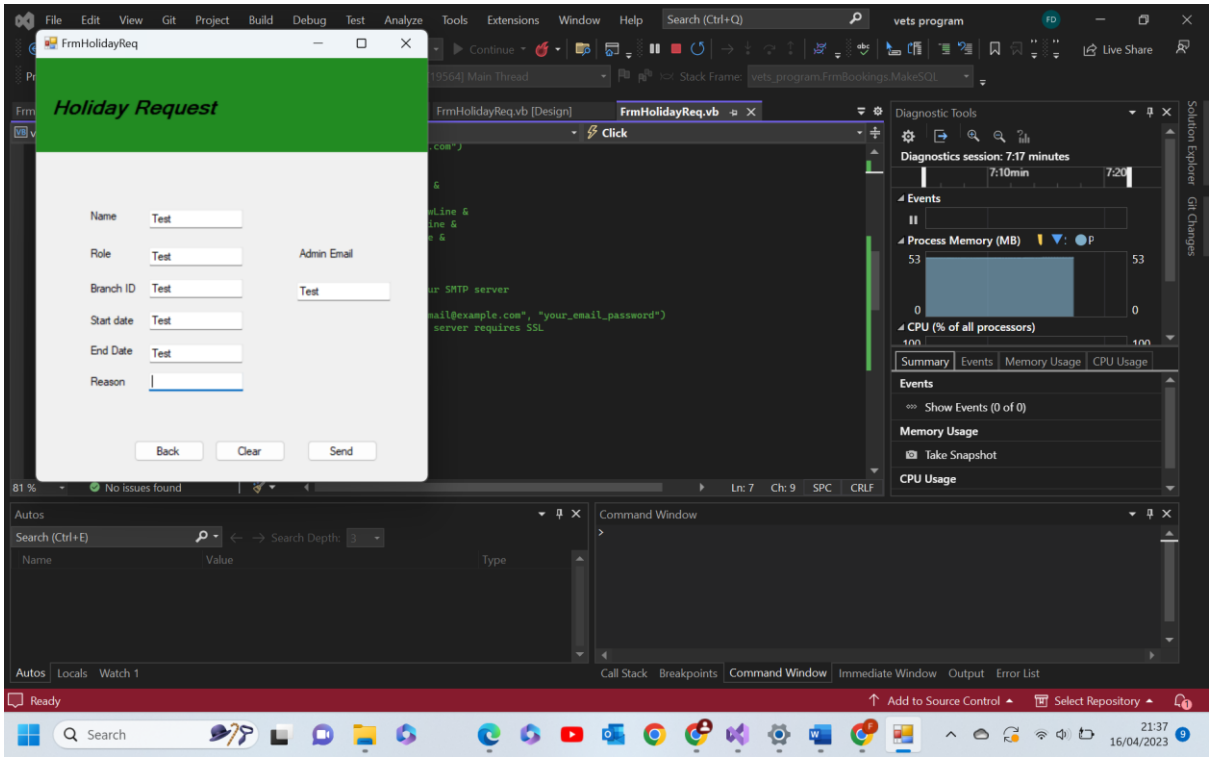


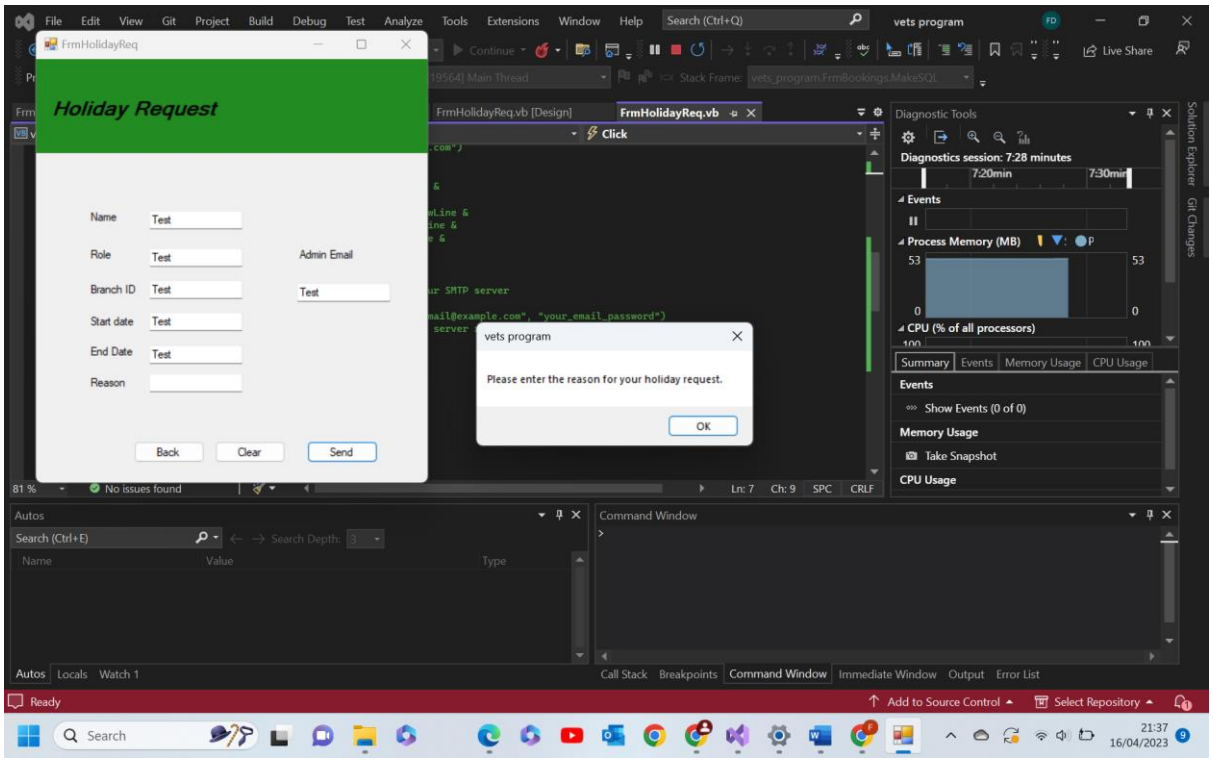
Name not present.





Branch ID not present





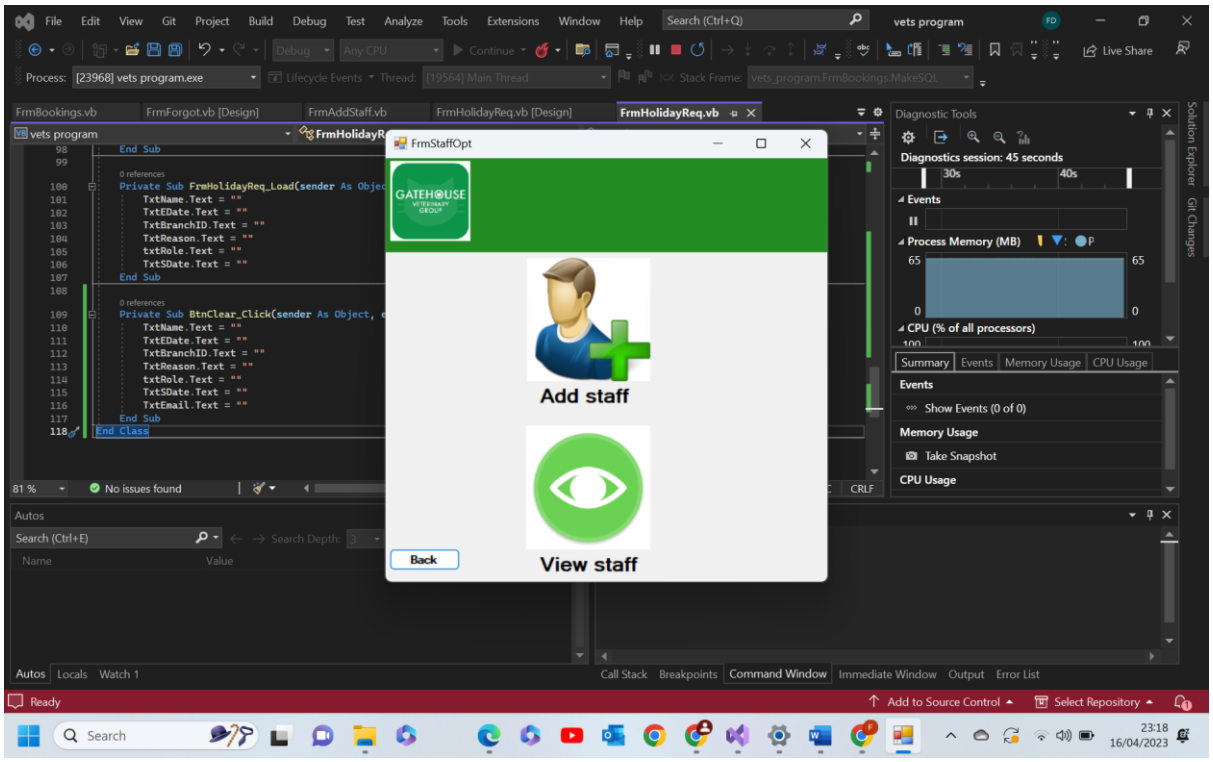
Reason not present

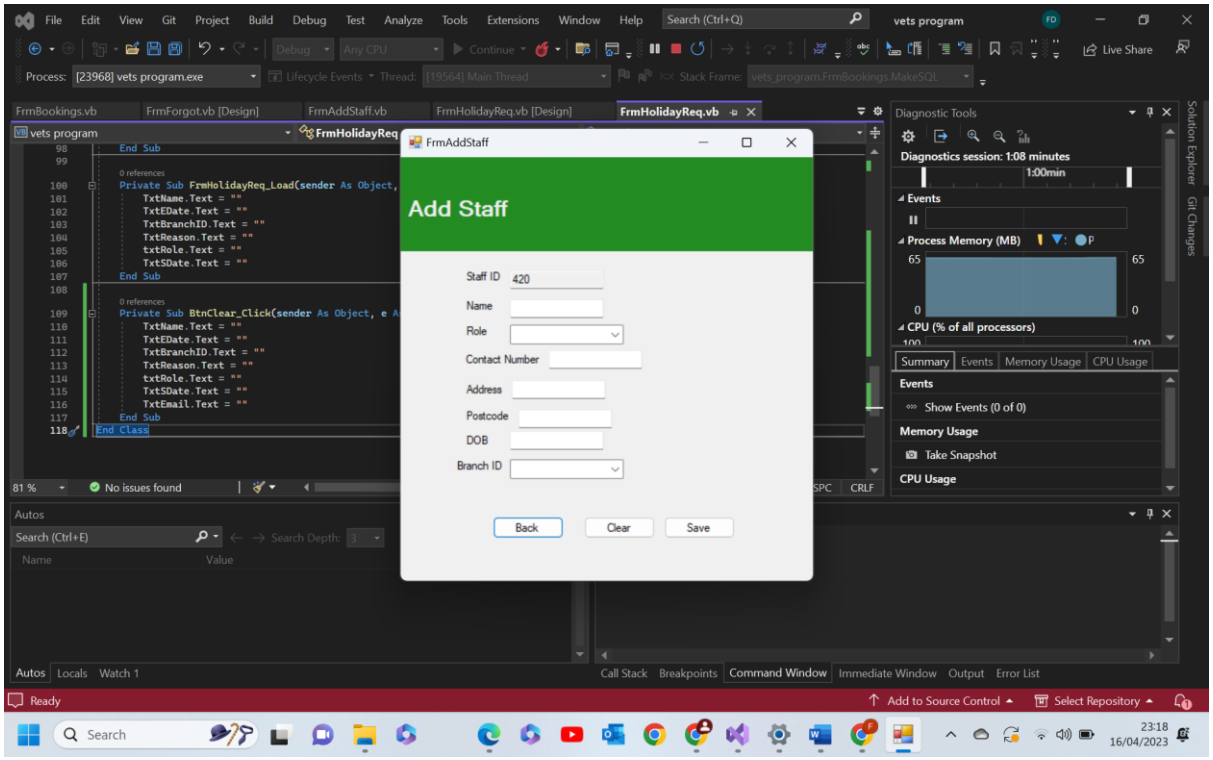
Test 11.4 comments- above are three examples out of a possible 7 that could be shown. I have shown three instead of one to improve the validity of the test as more than one works. As we can see above the program recognises the lack of data and so the text box fails the presence check. The program the outputs an appropriate message box and holds off from sending the email until all validation checks are passed. Pass

Test group 12- Staff Option form:

Test number	Test data	Actual outcome	Verdict	Comments
1	Functional test	As expected current form hidden and add staff shown	Pass	N/A
2	Functional test	As expected current form hidden and view staff shown	Pass	N/A
3	Functional test	Current form hidden and main menu form shown as expected.	Pass	N/A

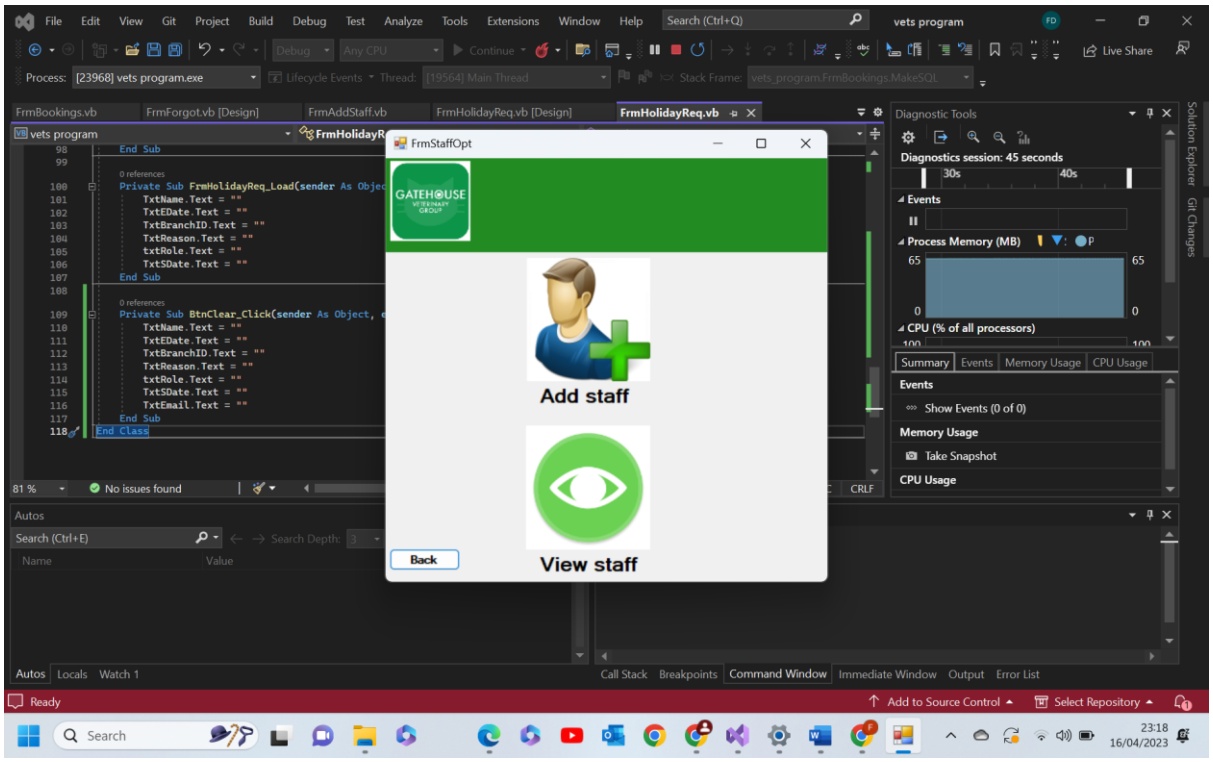
12.1-

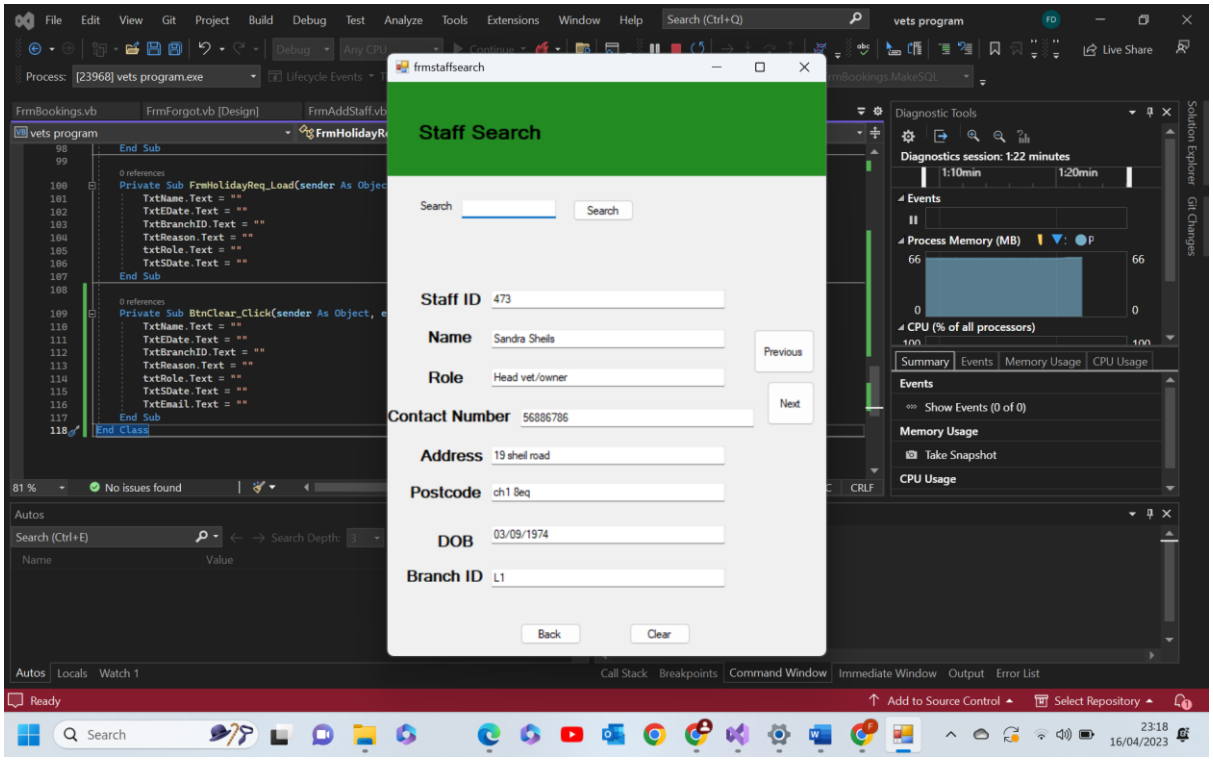




Test 12.1 comments- as we can see above, as expected, when the button or picture box was pressed the staff option form was hidden and the add staff form was shown. Pass

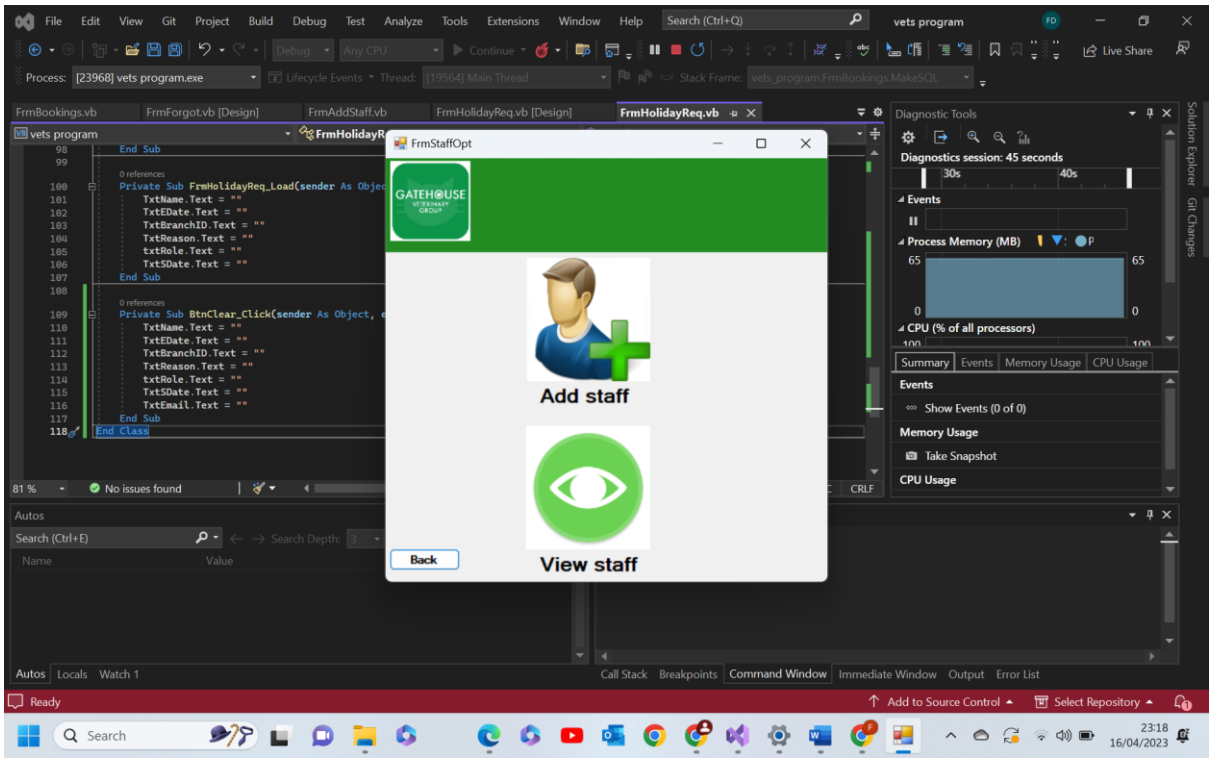
12.2-

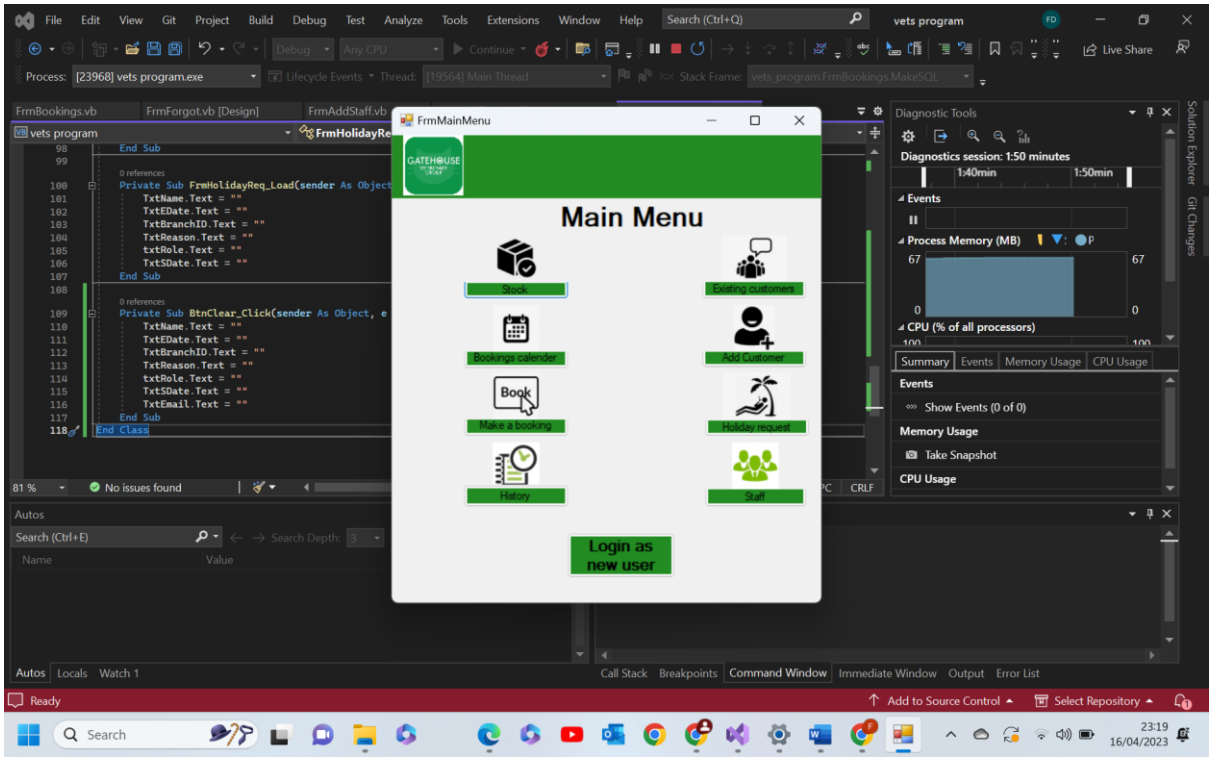




Test 12.2 comments- as we can see above, as expected, when the button or picture box was pressed the staff option form was hidden and the staff search form was shown. Pass

12.3-





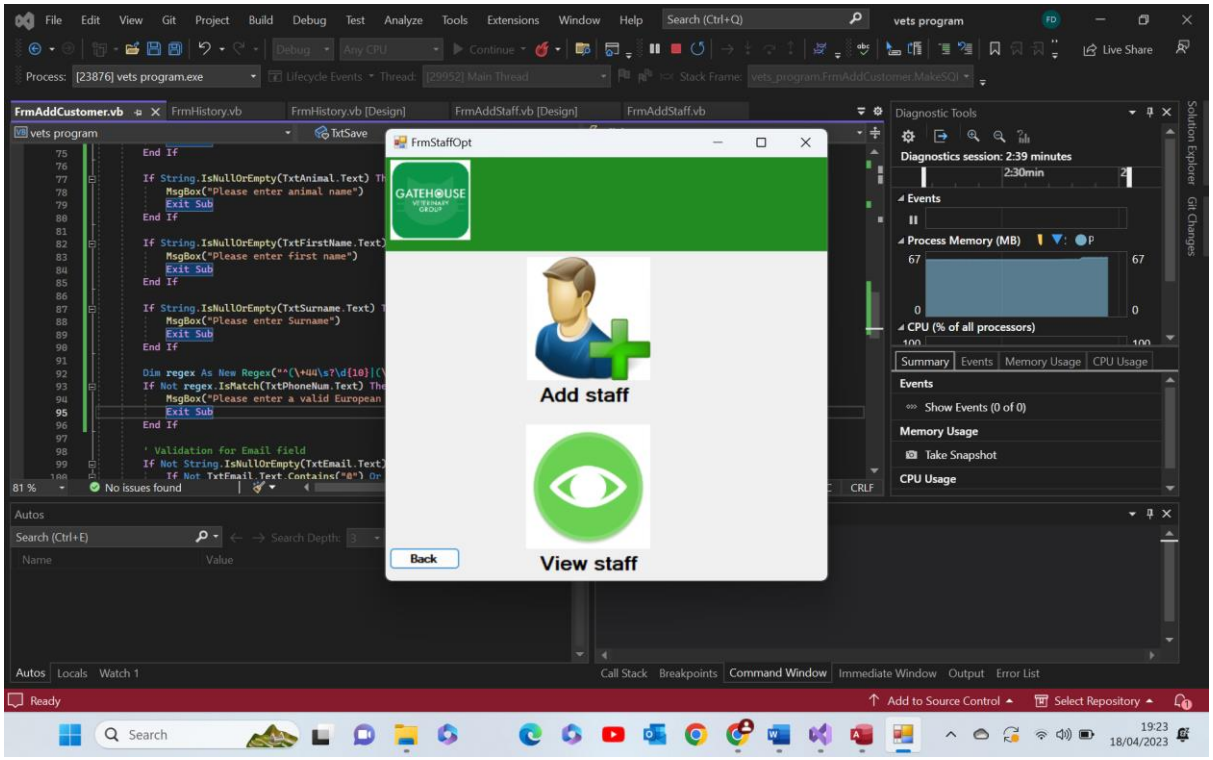
Test 12.3 comments- as we can see above, as expected, when the button or picture box was pressed the staff option form was hidden and the main menu form was shown.

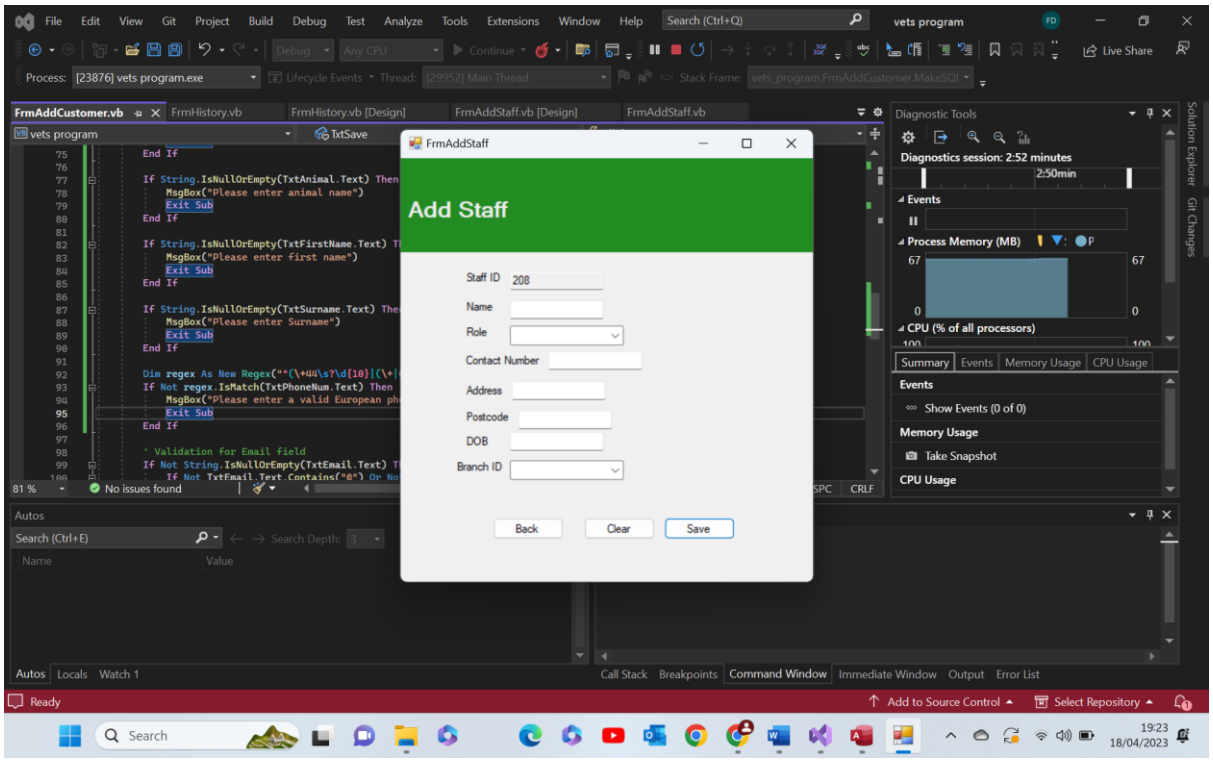
Test group 13-Add Staff Form:

Test number	Test data	Actual outcome	Verdict	Comments
1	Functional test Form loaded	As expected when the form was loaded a random three integer number was written into the correct text box	Pass	N/A
2	Functional test Form load	As expected when the form loads the staff ID text box is set to read only	Pass	N/A
3	Invalid data Specifically '999'	As expected if a phone number is entered that does not adhere to the format of a European number, the format check in	Pass	Possible non-European customers who are only over for a month or so may be left out. Unlikely however

		the code will not allow this to be displayed and output a message box		
4	Functional test Form loaded Info in access database used	As expected the info from the roles table was read and written into the combo box on form load	Pass	N/A
5	Functional test Form loaded Info in access database used	As expected the info from branch ID appeared in the combo box	Pass	N/A
6	Functional Save button pressed Valid test data	Program read all data in the text boxes and given that it was valid, wrote the data to a new line in the correct table in the database	Pass	N/A
7	Functional test Extreme data	If any text boxes were left blank the program outputted a message box saying which and did not allow the data to be saved	Pass	N/A
8	Functional Clear button	All text boxes were made empty	Pass	N/A
9	Functional Back button	Current form closed and staff option form opened	Pass	N/A

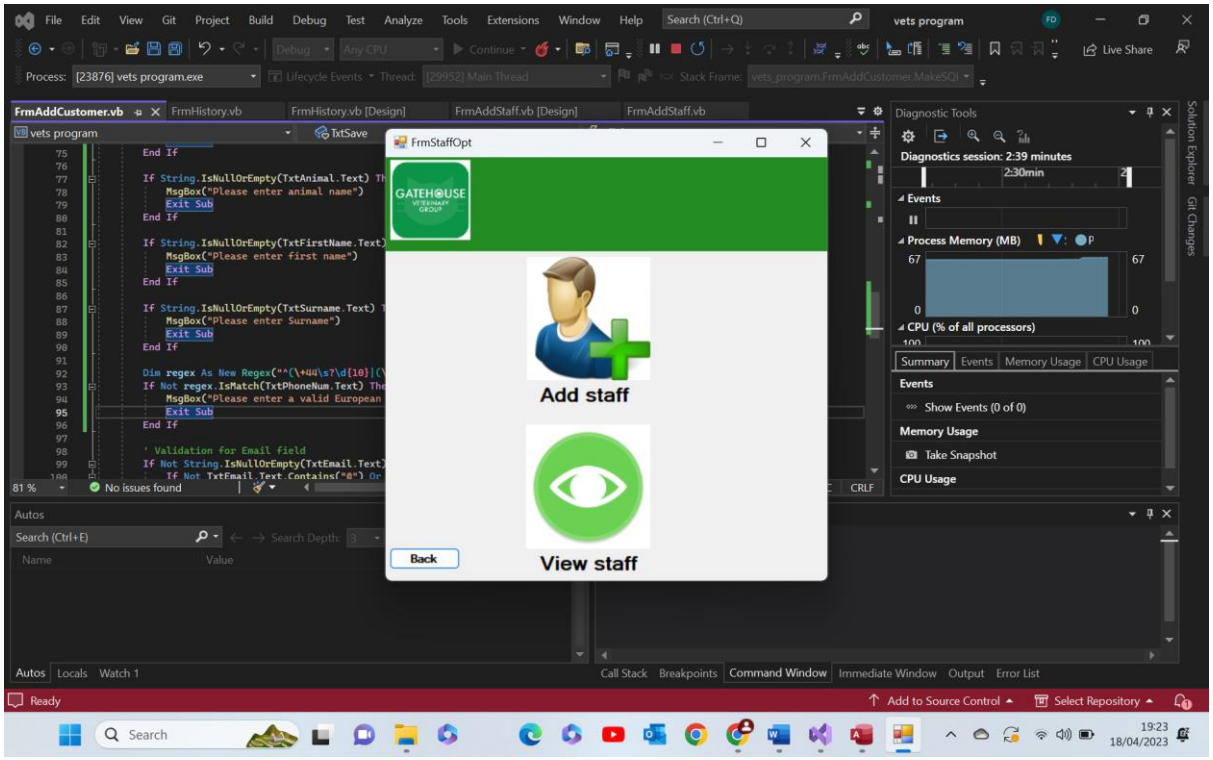
13.1-

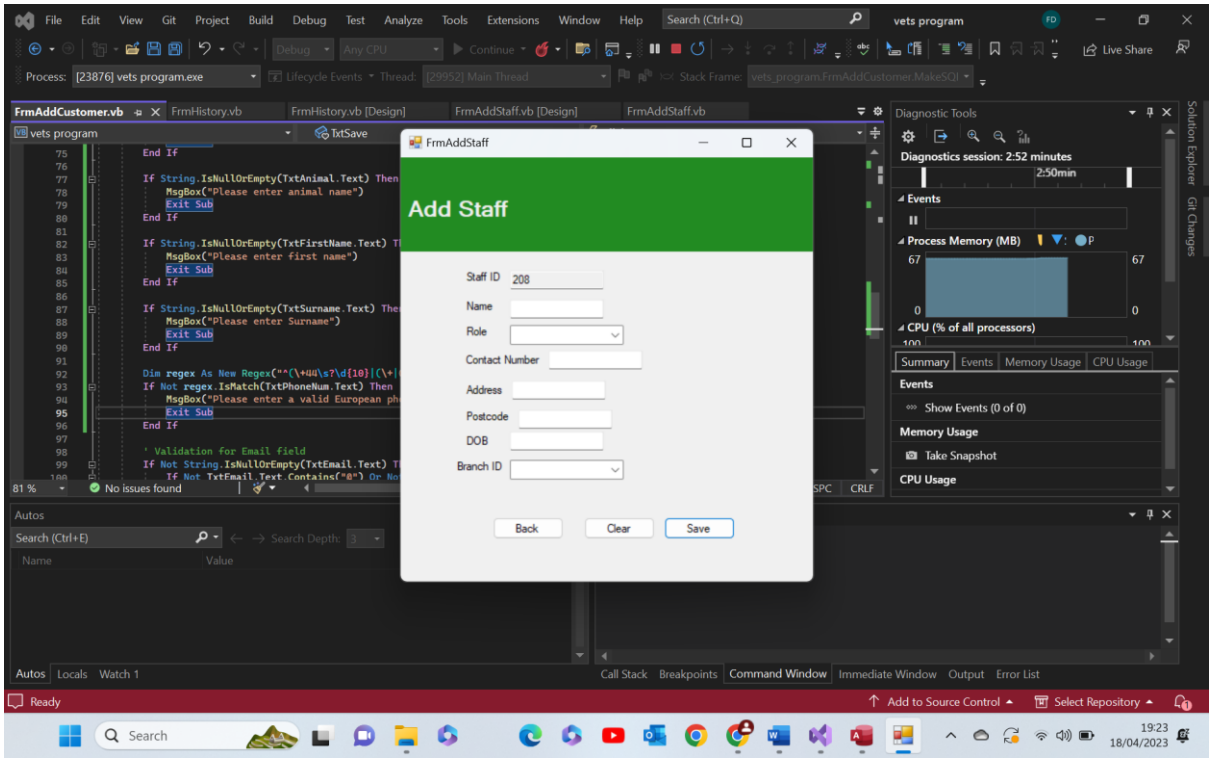




Test 13.1 comments- as we can see when the form is loaded it is assigned a random three digit ID number to the Staff ID text box. Pass

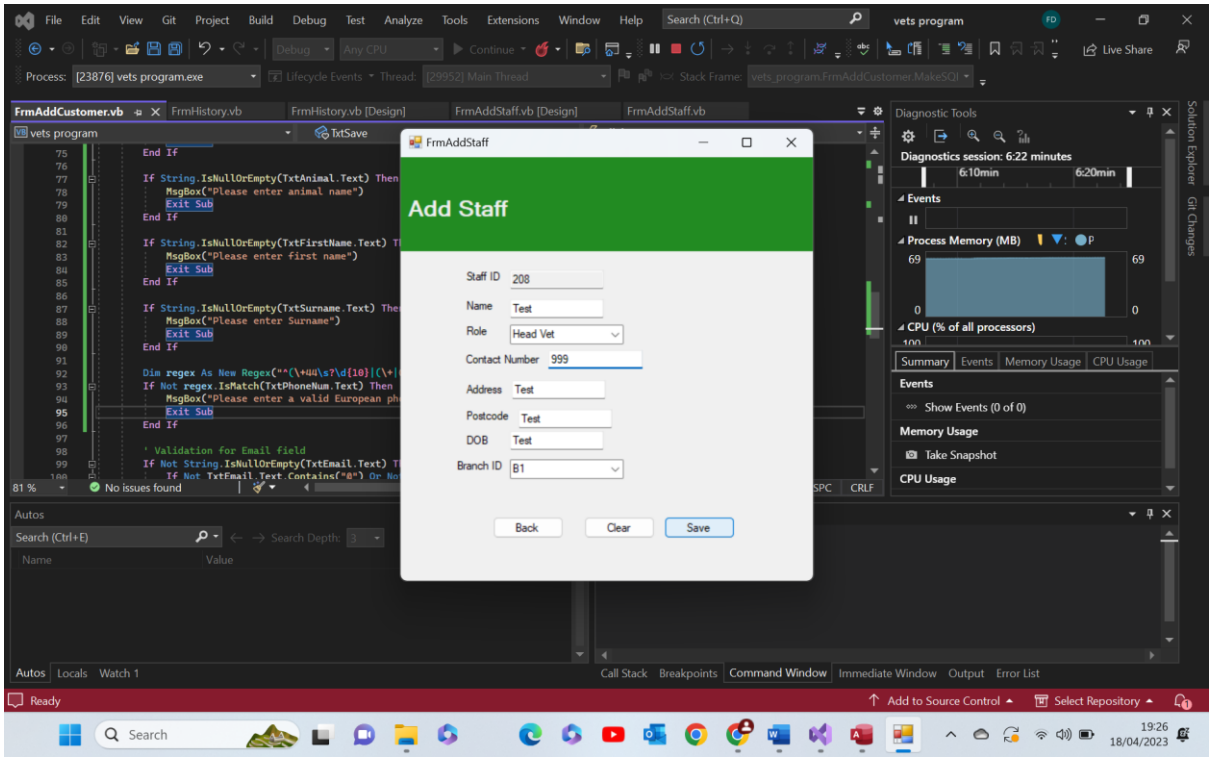
13.2-

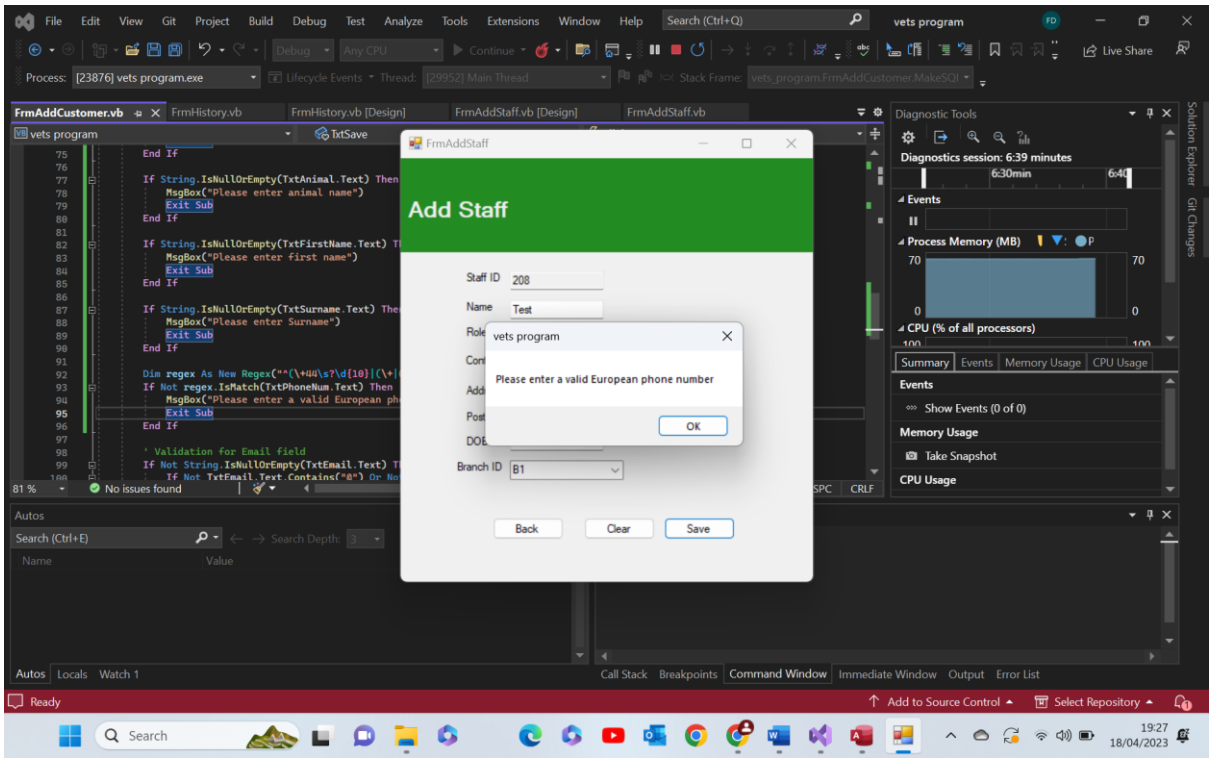




Test 13.2 comments- as we can see when the form loads the text box read only = true and so no one can tamper with or alter the text box. Pass

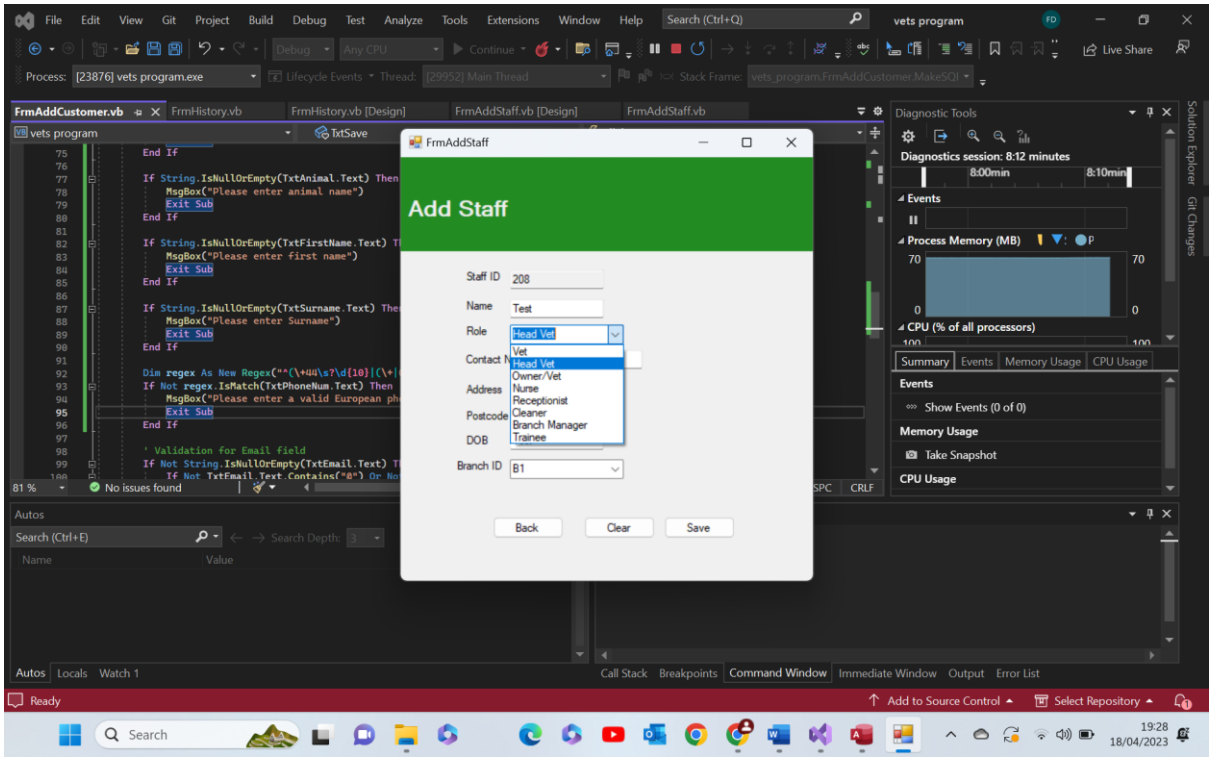
13.3-





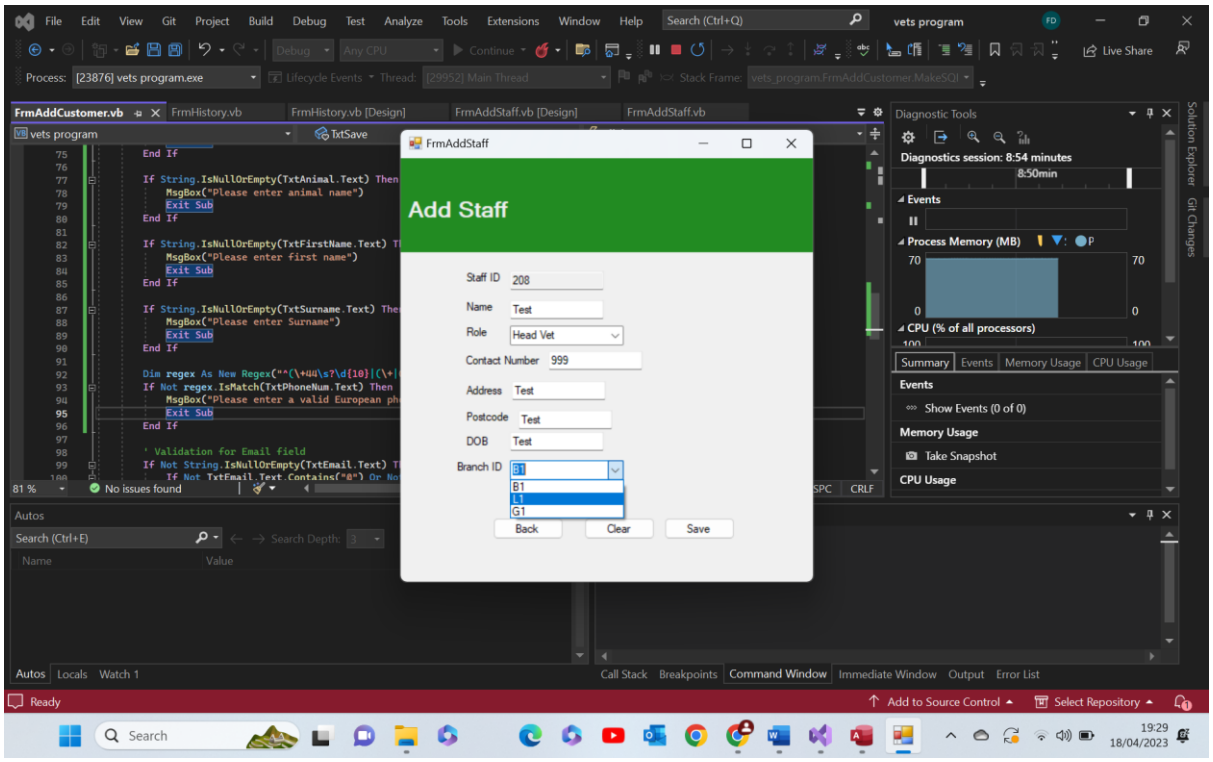
Test 13.3- as we can see the number '999' did not pass the format check validation in check and so the program output a message box warning and did not save the data. Pass

13.4-



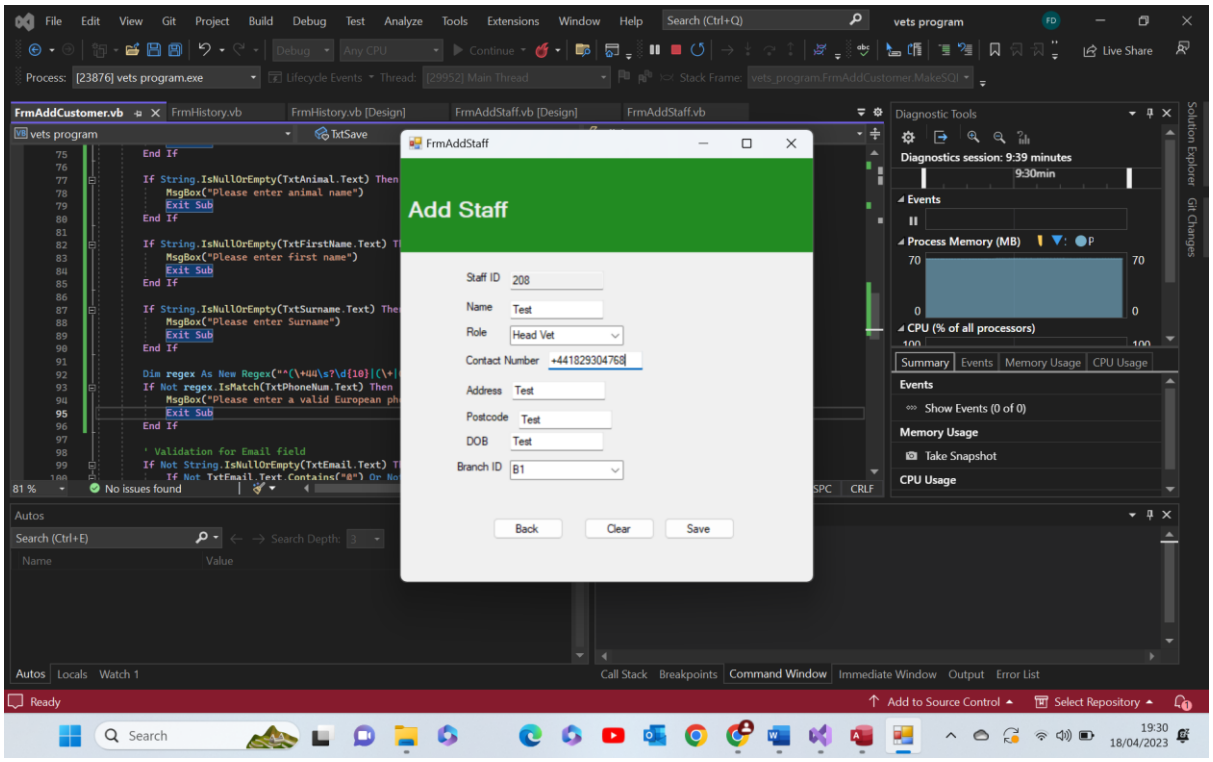
Test 13.4 comments- as we can see all applicable data was loaded correctly into this combo box. Pass

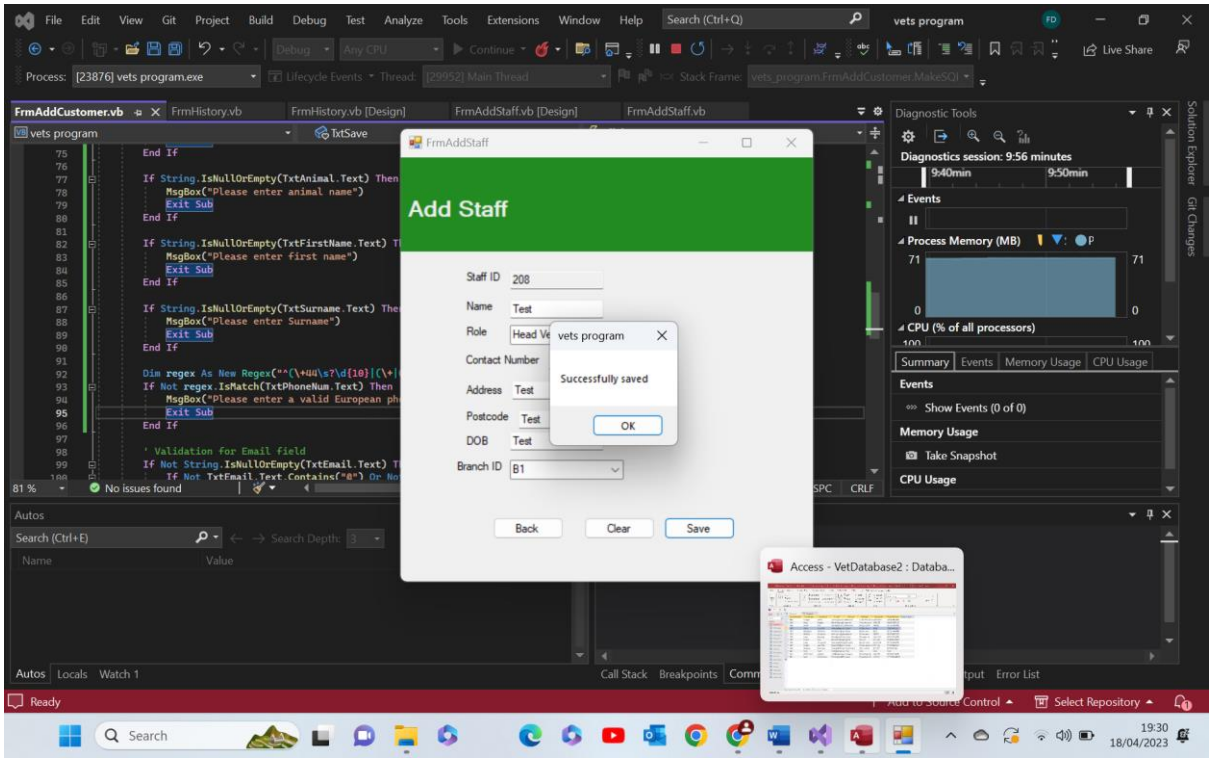
13.5-

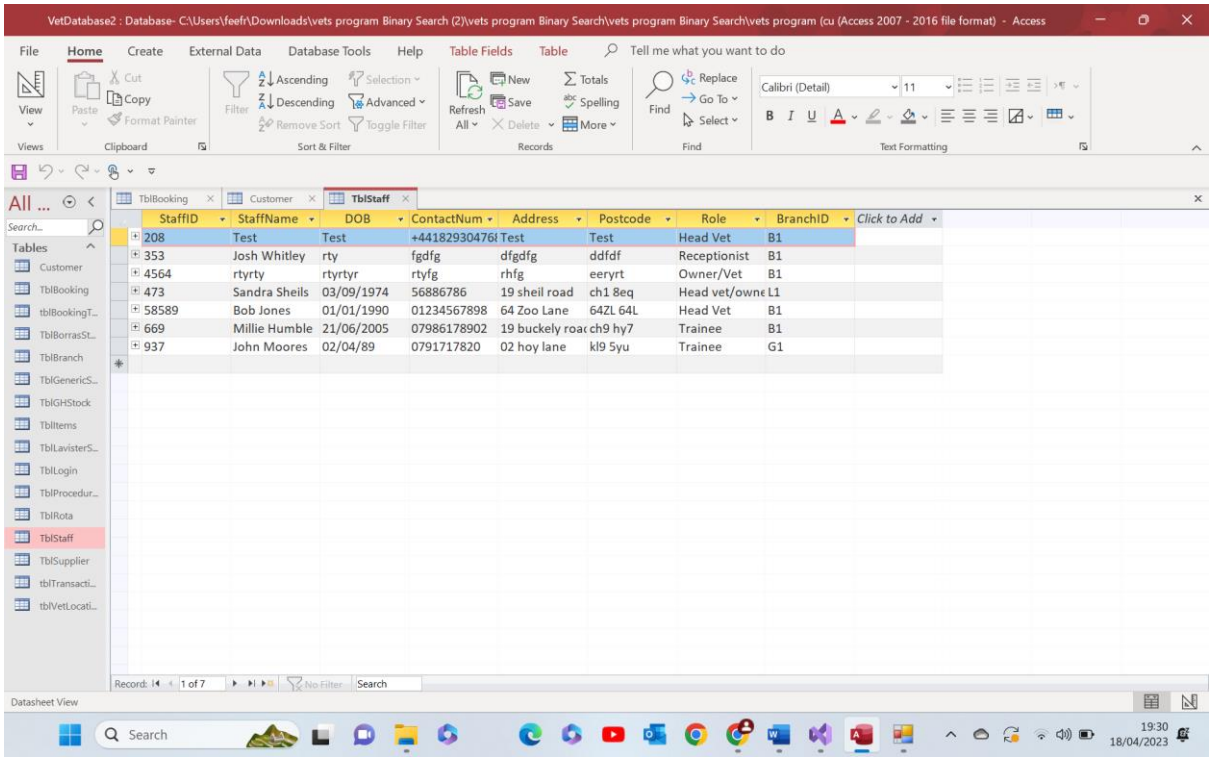


Test 13.5 comments - as we can see all applicable data was loaded correctly into this combo box. Pass

13.6-

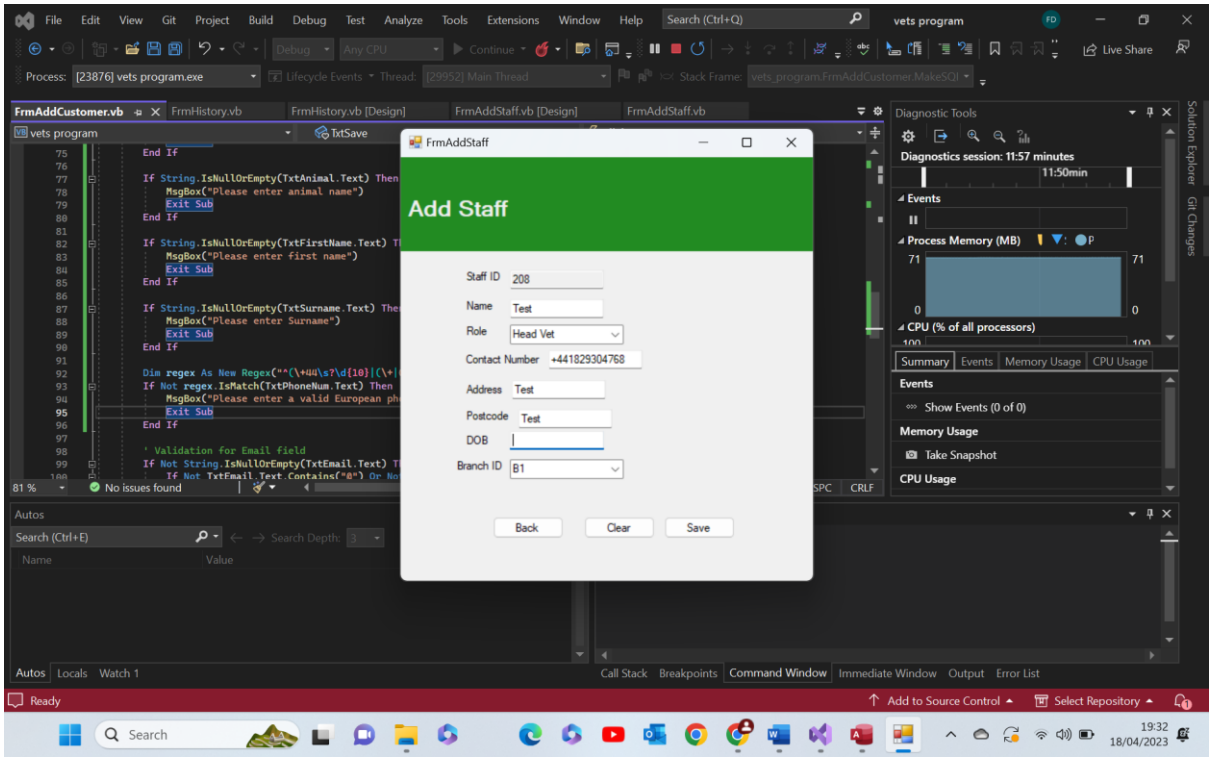

FrmAddStaff
Add Staff
Staff ID 208
Name Test
Role Head Vet
Contact Number +441829304768
Address Test
Postcode Test
DOB Test
Branch ID B1
Back
Clear
Save

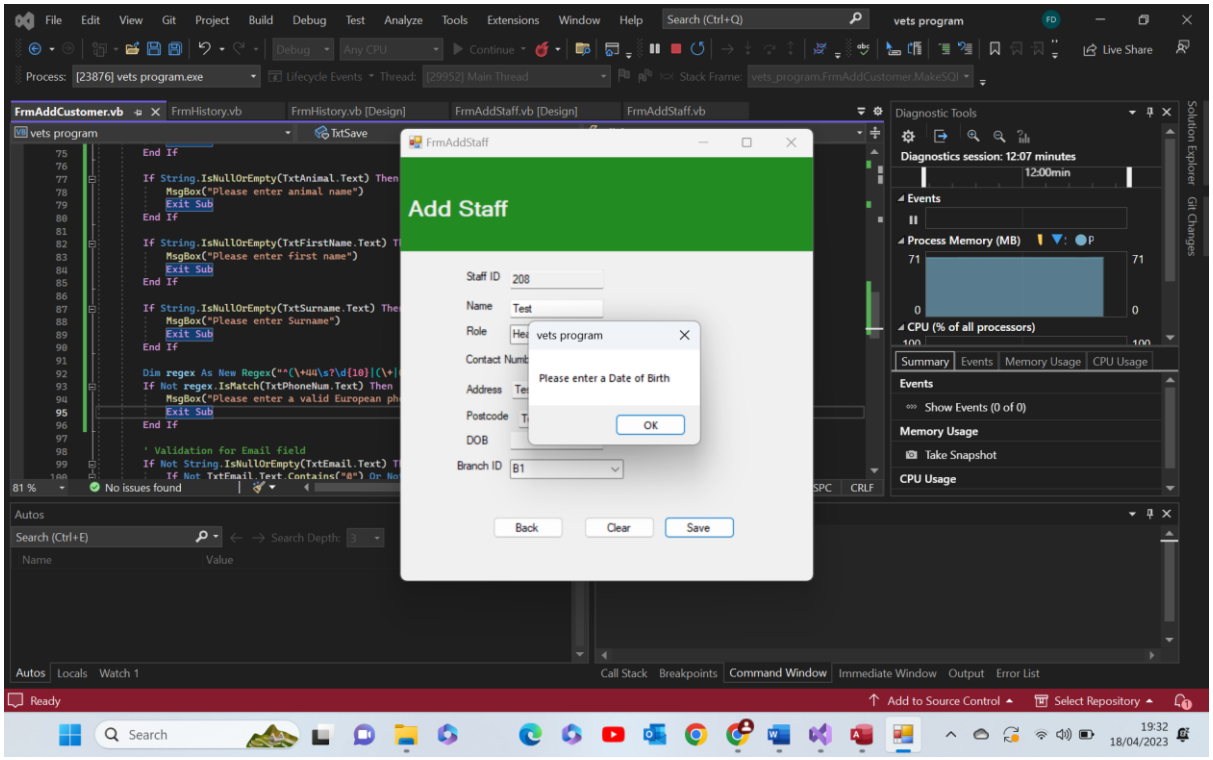

FrmAddStaff
Add Staff
Staff ID 208
Name Test
Role Head Ve
Contact Number
Address Test
Postcode Test
DOB Test
Branch ID B1
vets program
Successfully saved
OK
Back
Clear
Save
Access - VetDatabase2 : Databa...

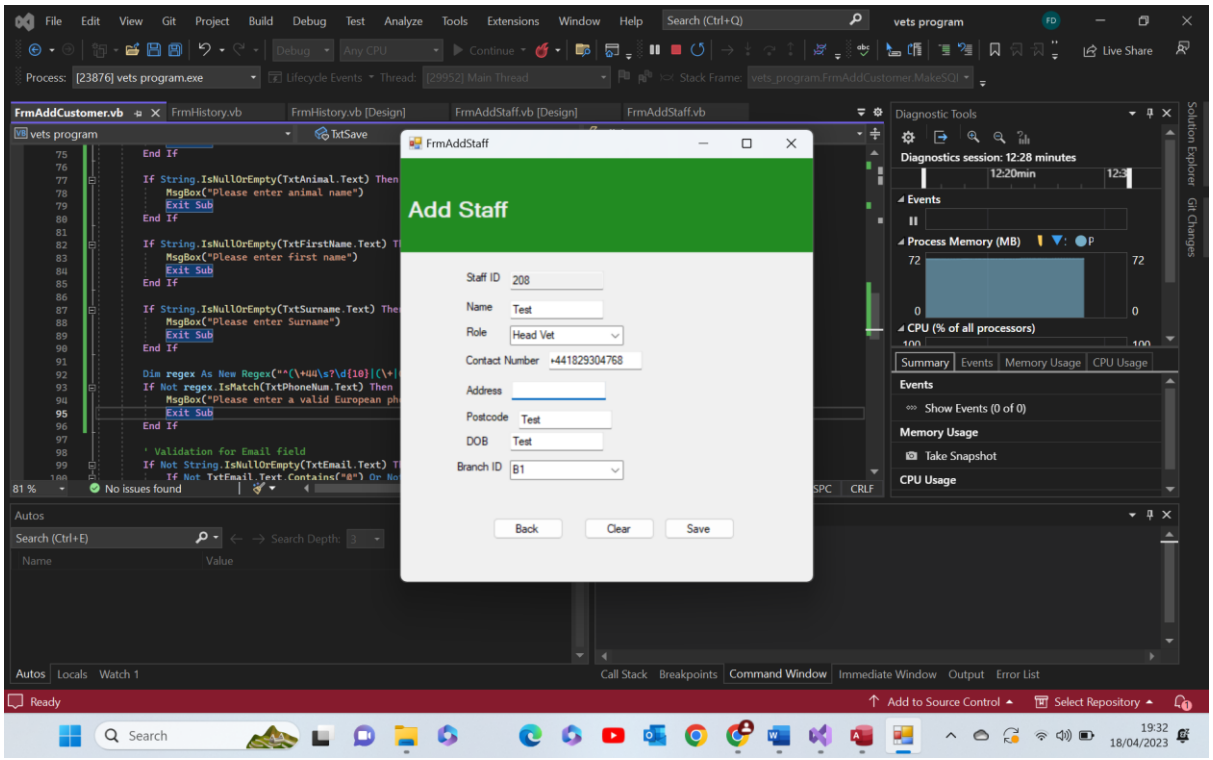


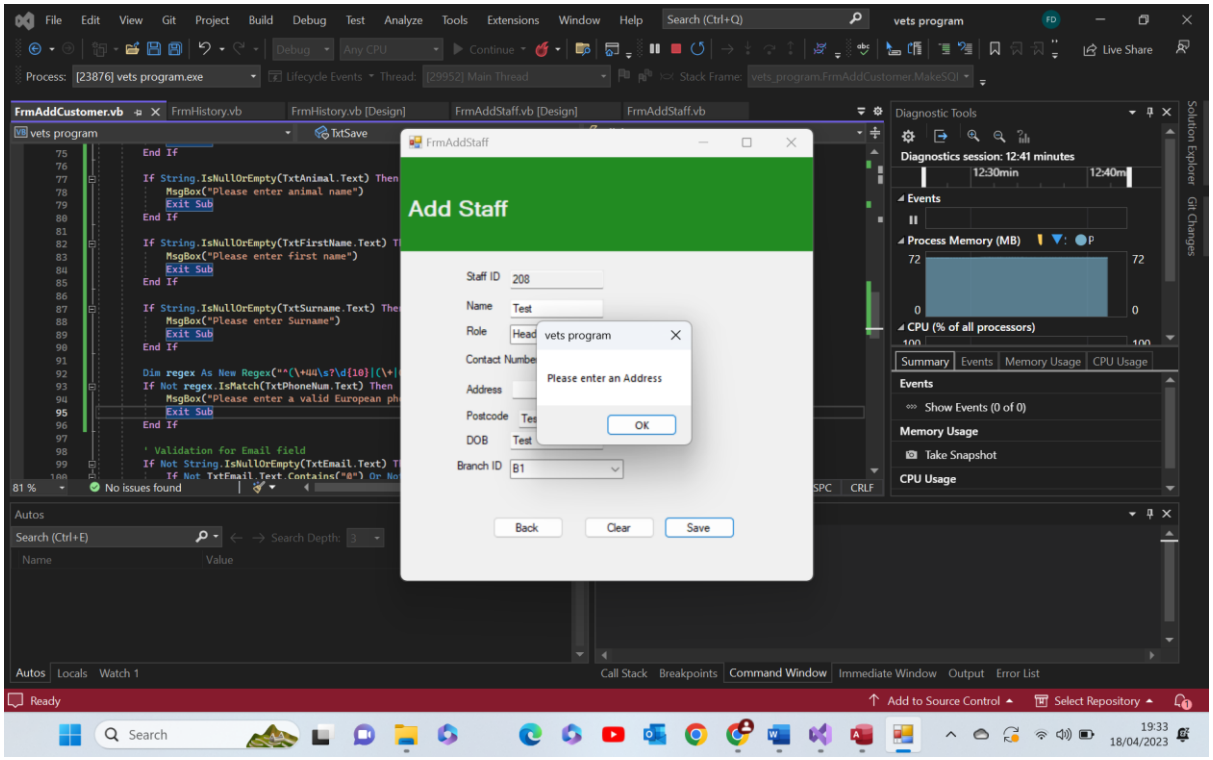
Test 13.6 comments- as we can see all data in all text boxes passed their respective validation checks, both presence and format. Because they passed the data was deemed valid and so saved to a new row in the correct table in the database. The screenshot above shows the new data that has been added. Pass

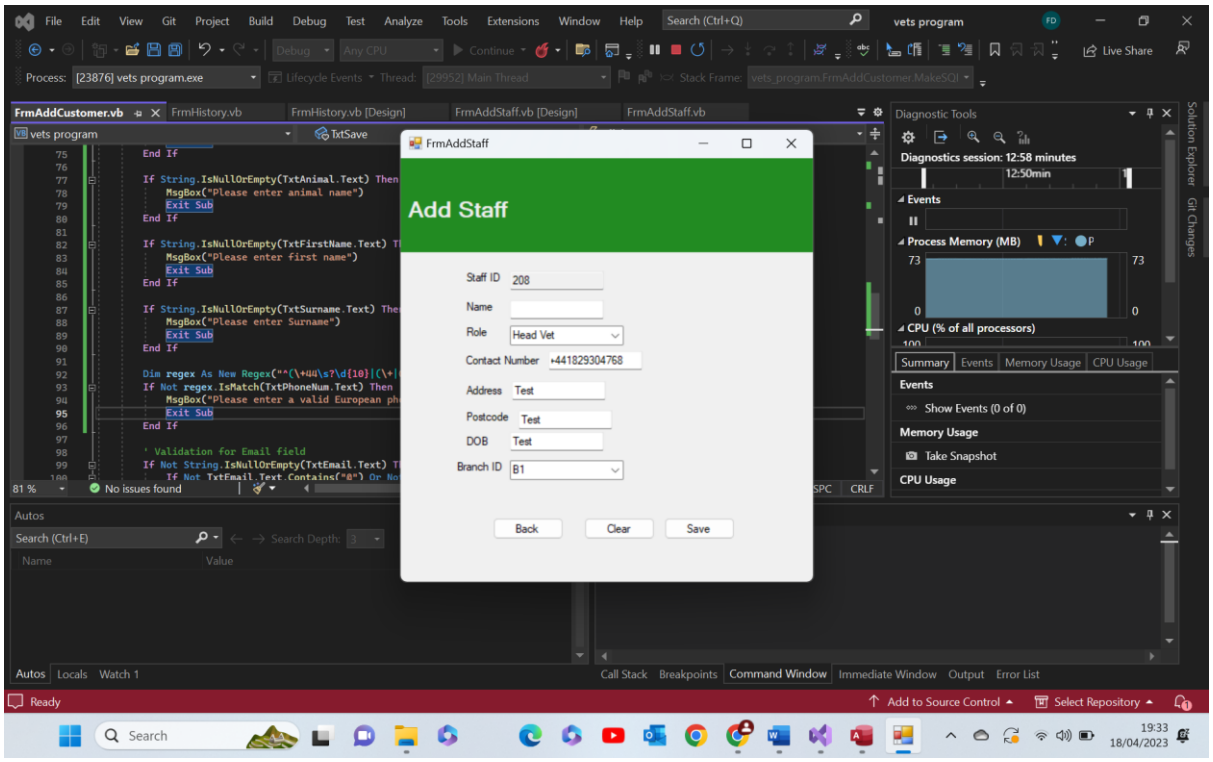
13.7-

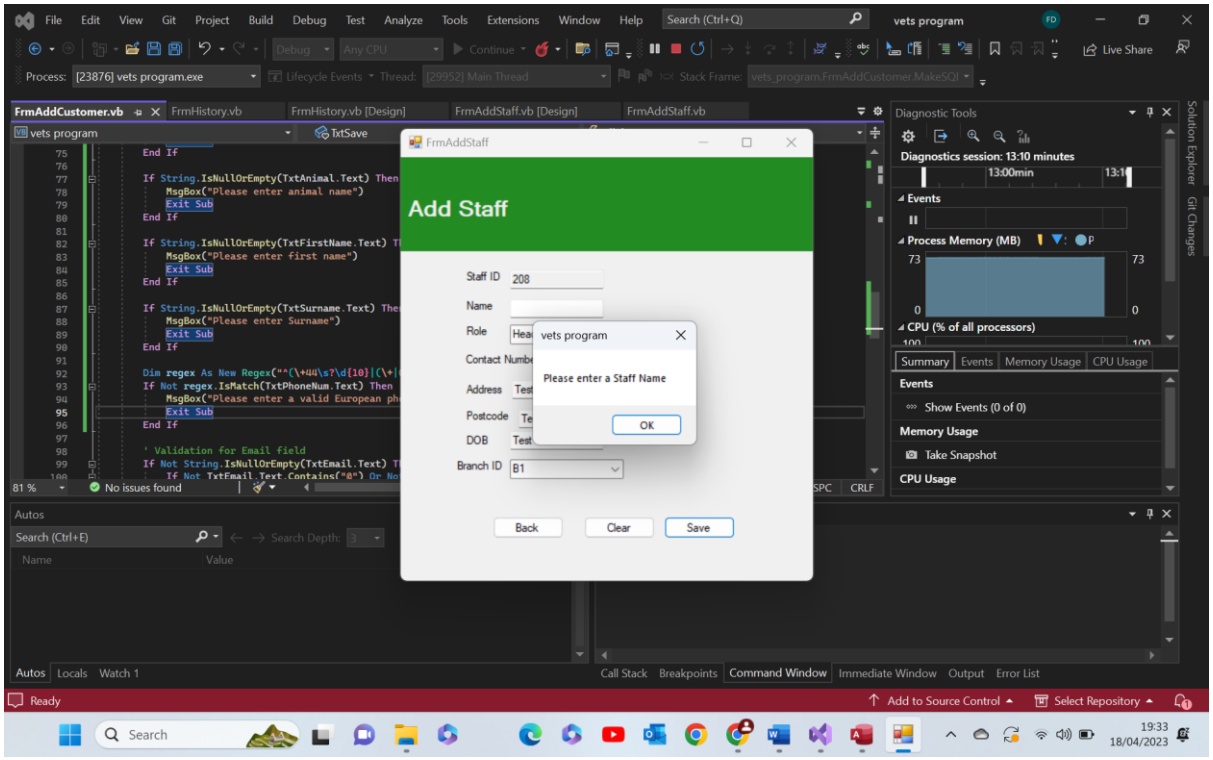



FrmAddStaff
Add Staff
Staff ID 208
Name Test
Role
Contact Numb
Address
Postcode
DOB
Branch ID B1
Back
Clear
Save
vets program
Please enter a Date of Birth
OK
Diagnostic Tools
Diagnostics session: 12:07 minutes
Process Memory (MB)
CPU (% of all processors)
Summary
Events
Memory Usage
CPU Usage
Show Events (0 of 0)
Take Snapshot
No issues found
Ready
Add to Source Control
Select Repository


FrmAddStaff
Add Staff
Staff ID 208
Name Test
Role Head Vet
Contact Number +441829304768
Address
Postcode Test
DOB Test
Branch ID B1
Back
Clear
Save
Diagnostic Tools
Diagnostics session: 12:28 minutes
Process Memory (MB)
CPU (% of all processors)
Summary
Events
Memory Usage
CPU Usage
Show Events (0 of 0)
Take Snapshot
No issues found
Ready
Add to Source Control
Select Repository

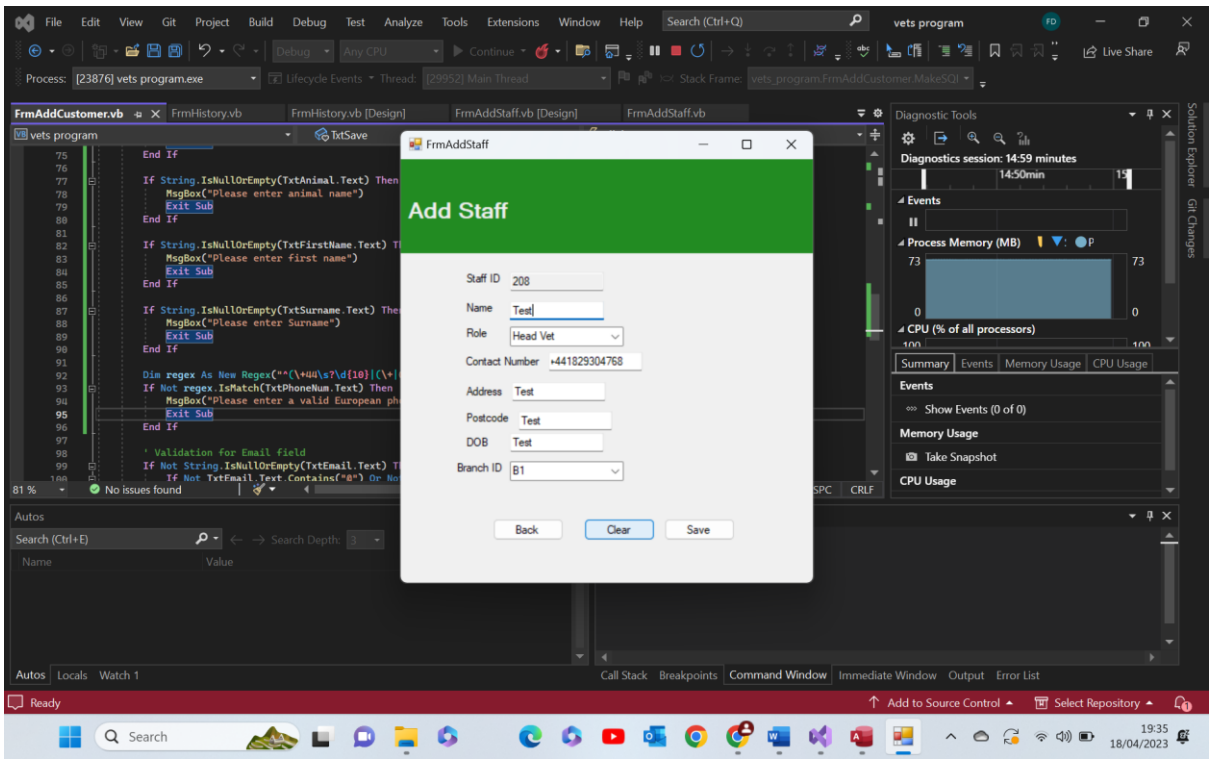

FrmAddStaff
Add Staff
Staff ID 208
Name Test
Role Head
Contact Numbe
Address
Postcode Tes
DOB Test
Branch ID B1
Back
Clear
Save
vets program
Please enter an Address
OK
Diagnostics session: 12:41 minutes
12:30min
12:40m
Process Memory (MB)
CPU (% of all processors)
Summary
Events
Memory Usage
CPU Usage
Show Events (0 of 0)
Take Snapshot
No issues found
Ready
Add to Source Control
Select Repository

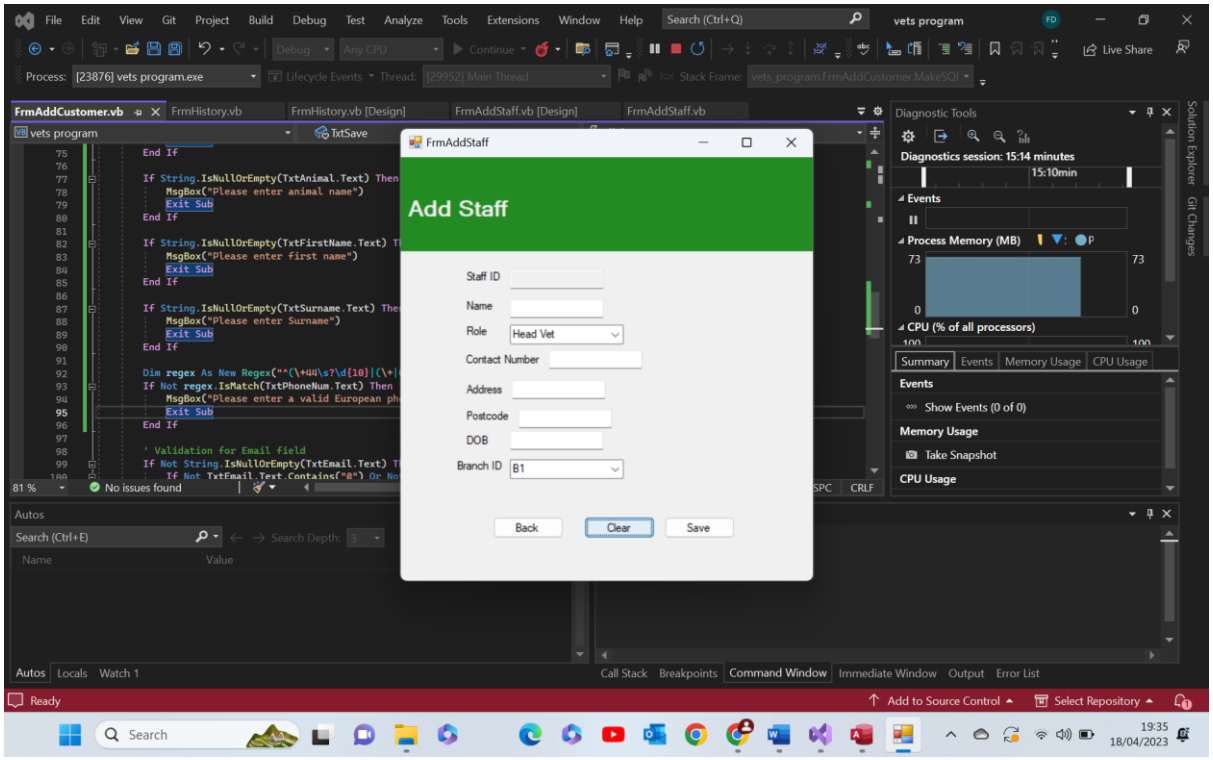

FrmAddStaff
Add Staff
Staff ID 208
Name
Role Head Vet
Contact Number +441829304768
Address Test
Postcode Test
DOB Test
Branch ID B1
Back
Clear
Save
Diagnostics session: 12:58 minutes
12:50min
Process Memory (MB)
CPU (% of all processors)
Summary
Events
Memory Usage
CPU Usage
Show Events (0 of 0)
Take Snapshot
No issues found
Ready
Add to Source Control
Select Repository



Test 13.7 comments- as we can see above I have provided three examples of the presence check in action. The program recognises the lack of or Null data and so outputs a message box warning the user where the extreme or lack of data is found. The program does not save any data if on presence check is failed. Pass

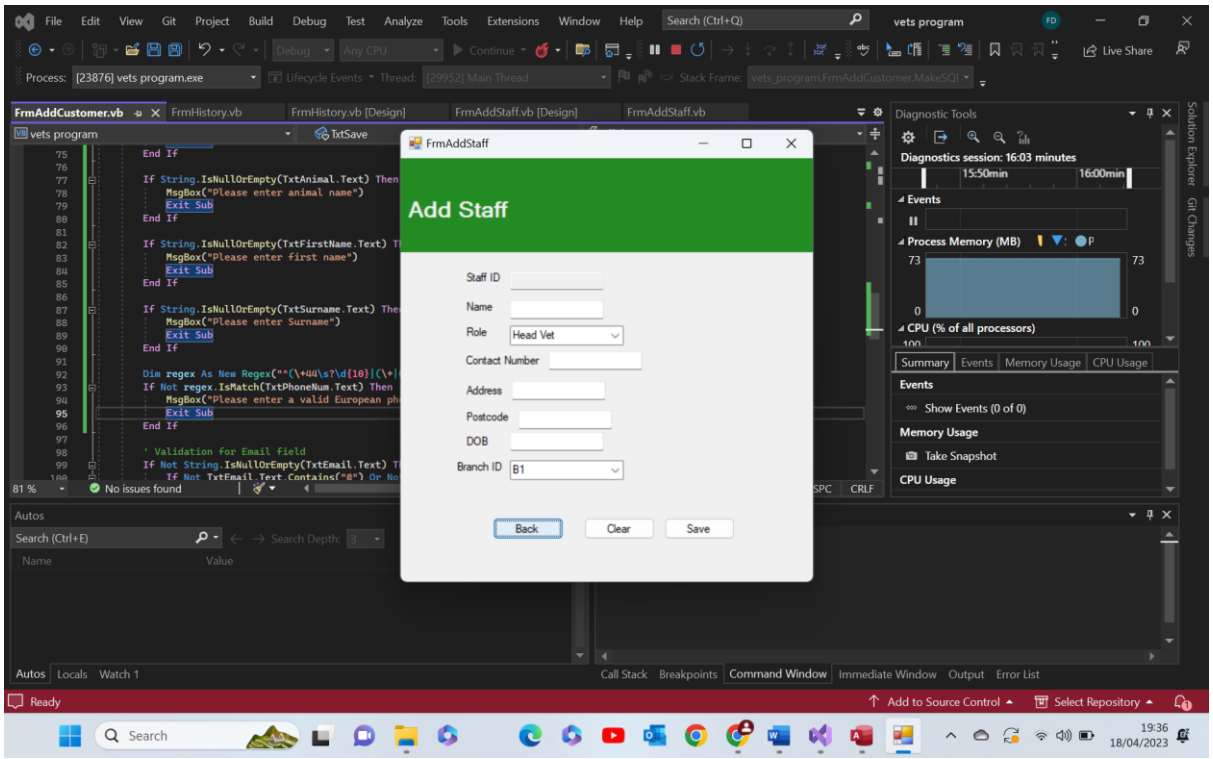
13.8-

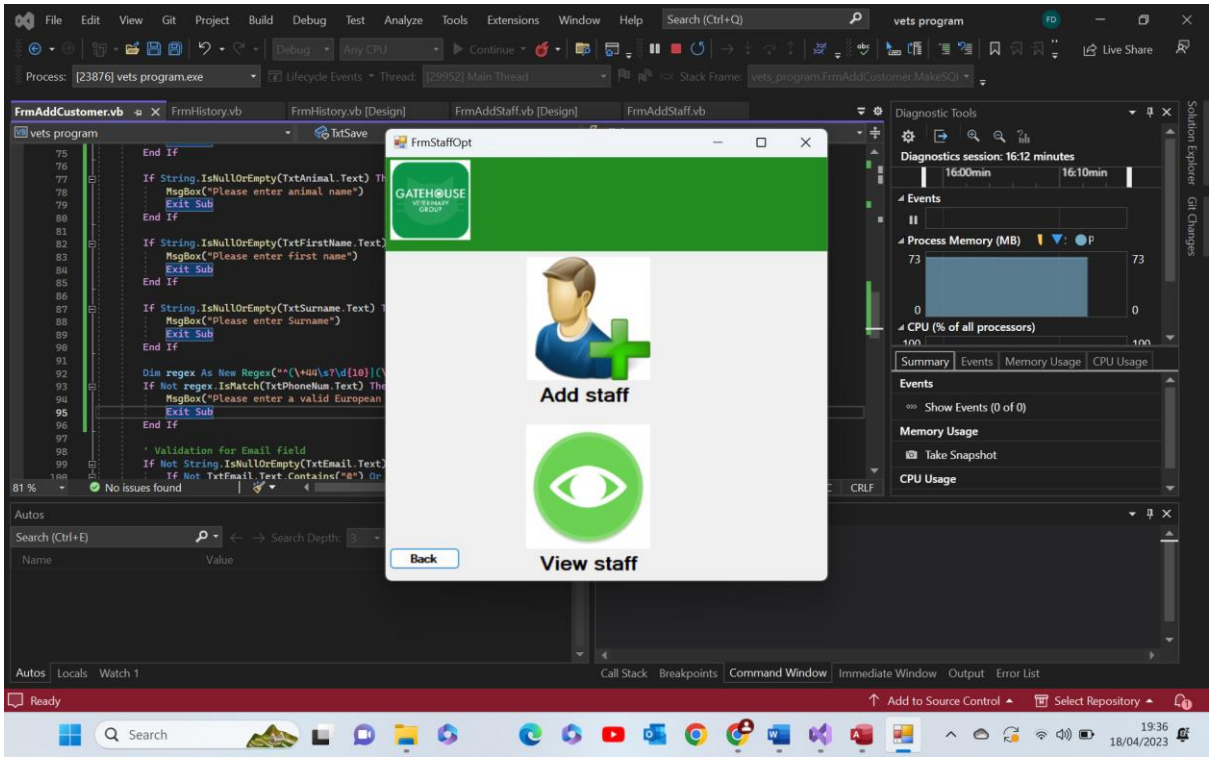




Test 13.8 comments- as we can see all text boxes were set = “” and so became Null or void of data. Pass

13.9-





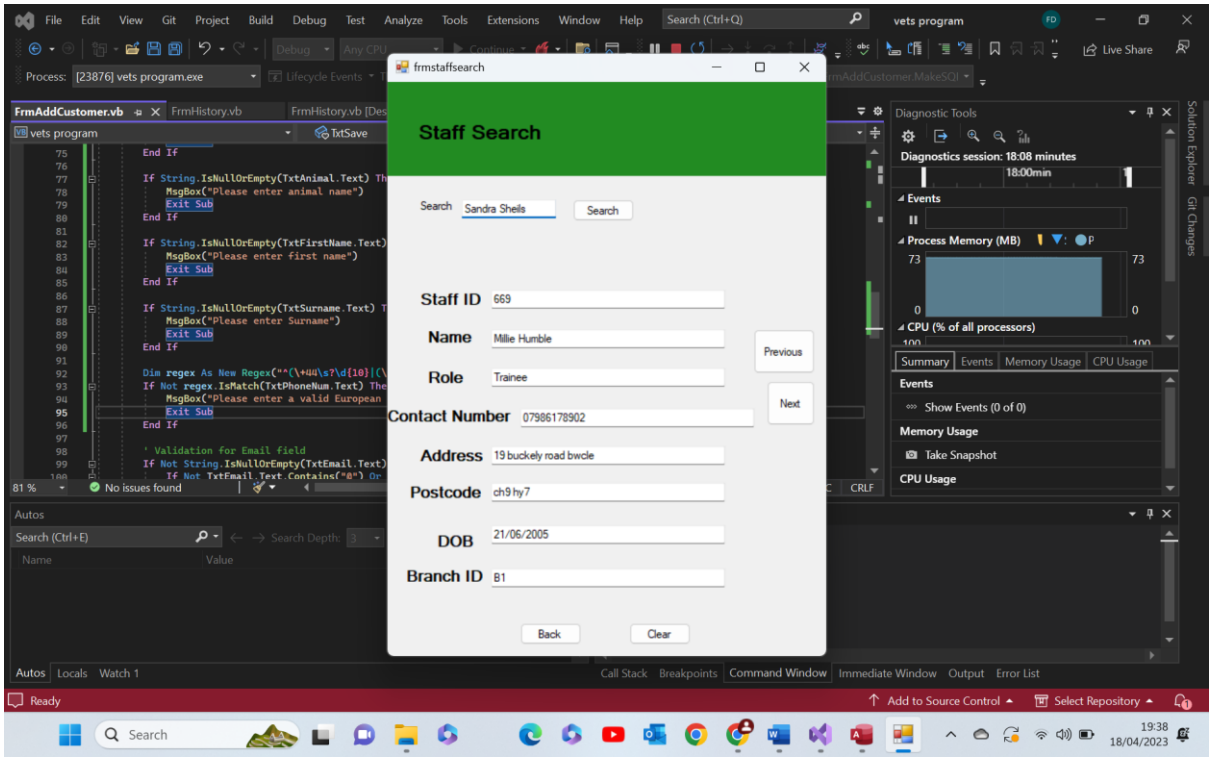
Test 13.9 comments- as we can see the back button hidden the add staff form and shown the staff option form. Pass

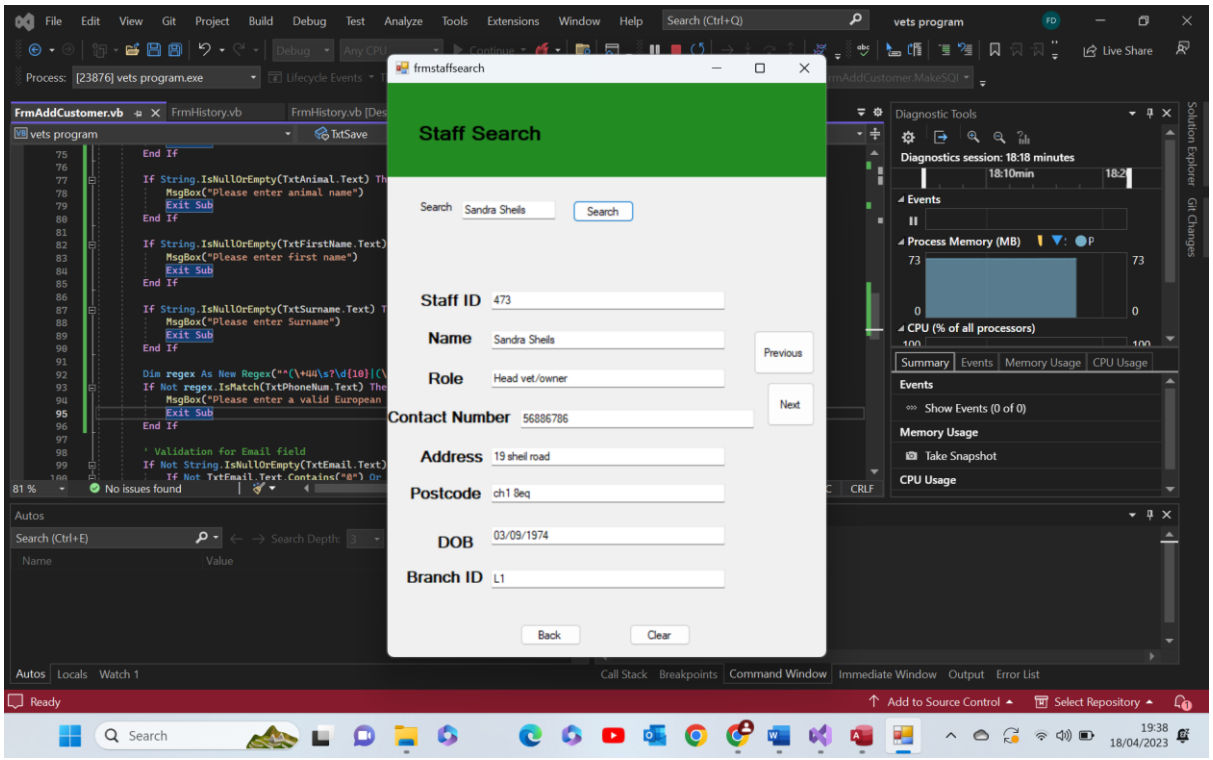
Test group 14- View staff form:

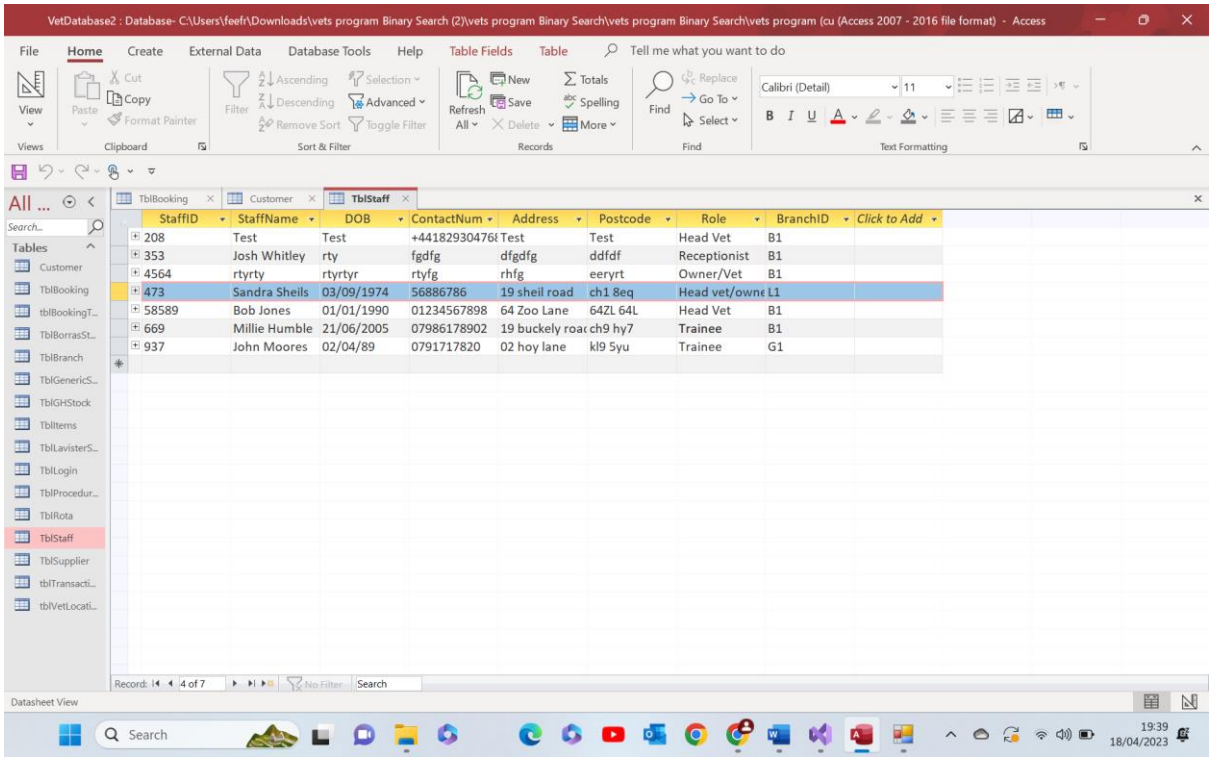
Test number	Test data	Actual outcome	Verdict	Comments
1	Valid data ‘Sandra Sheils’	In the event a valid name was entered all details associated with that person in the database were read and then written to the text boxes on the form	Pass	N/A
2	Invalid data ‘s4andra SHEils’	In the event an invalid name was entered a message box appeared stating ‘no record found’	Pass	N/A
3	Extreme data Text box empty	In the event an invalid name, or empty in this case, was entered a	Pass	Maybe a distinguishing text box would be preferable here,

		message box appeared stating 'no record found'		**something along the lines of 'no data entered' rather than 'no records found'**
4	**Functional test Next button pressed**	**When the next button was pressed the 'next' record that had been saved was displayed in the text boxes**	**Pass**	**Could alter these two to only work for records with the same names**
5	**Functional test Previous button pressed**	**When the previous button was pressed the 'previous' record that had been saved was displayed in the text boxes**	**Pass**	**Could alter these two to only work for records with the same names**
6	**Functional test Clear button pressed**	**All text boxes became void of data**	**Pass**	**N/A**
7	**Functional test Back button pressed**	**Current form closed and staff option form was shown.**	**Pass**	**N/A**

14.1-

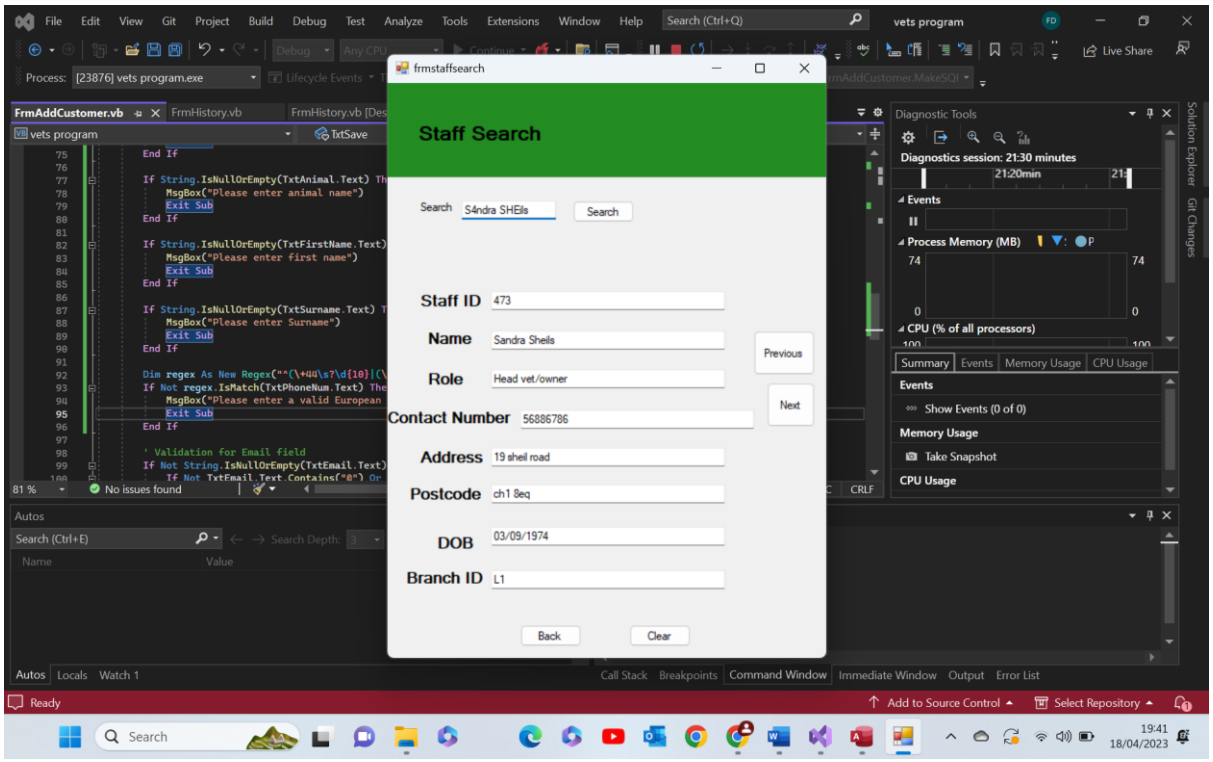

frmstaffsearch
Staff Search
Search
Sandra Sheils
Search
Staff ID
669
Name
Millie Humble
Role
Trainee
Contact Number
07986178902
Address
19 buckely road bwcle
Postcode
ch9 hy7
DOB
21/06/2005
Branch ID
B1
Previous
Next
Back
Clear

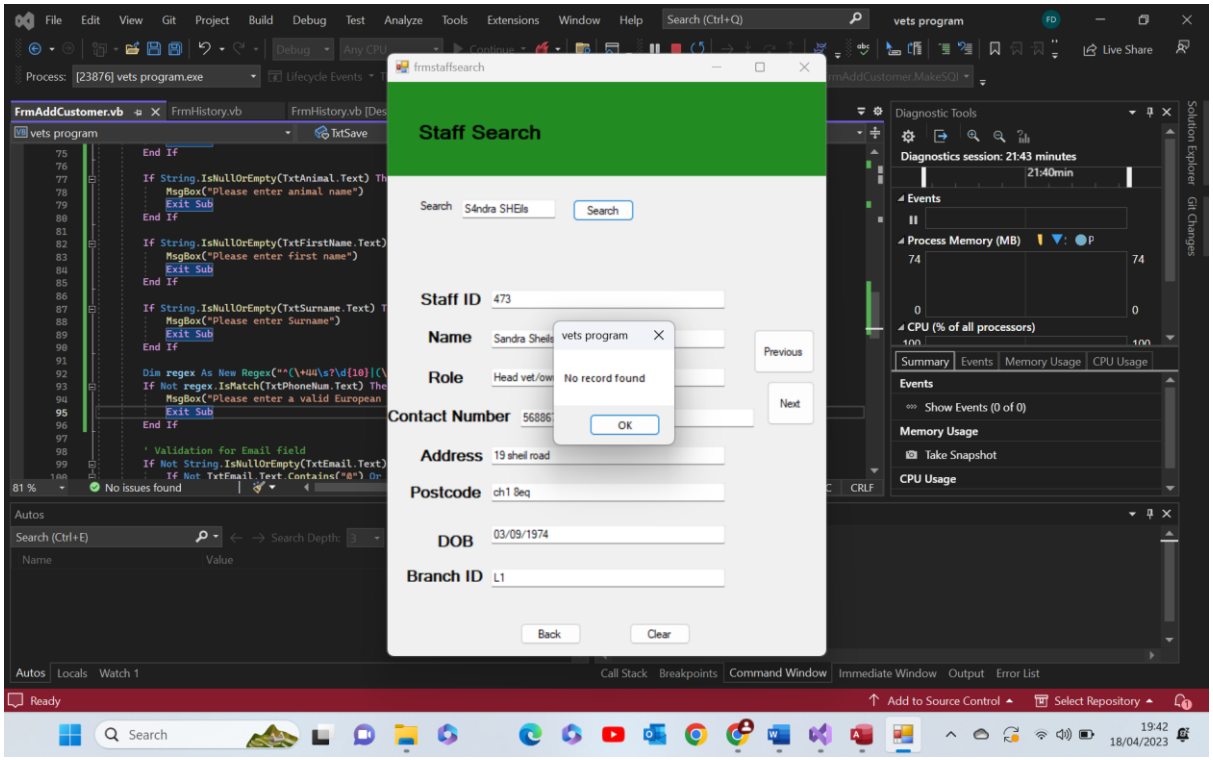

frmstaffsearch
Staff Search
Search
Sandra Sheils
Search
Staff ID
473
Name
Sandra Sheils
Role
Head vet/owner
Contact Number
56886786
Address
19 sheil road
Postcode
ch1 8eq
DOB
03/09/1974
Branch ID
L1
Previous
Next
Back
Clear



Test 14.1 comments- as we can see above when valid data is inputted, in this case 'Sandra Sheils' the program recognises that this name appears in the data base in the table staff, it the fetches all the correlating information and writes them into the text boxes below the search bar. As we can see from the above database screenshot the correct information was put into text boxes correlating with the name.

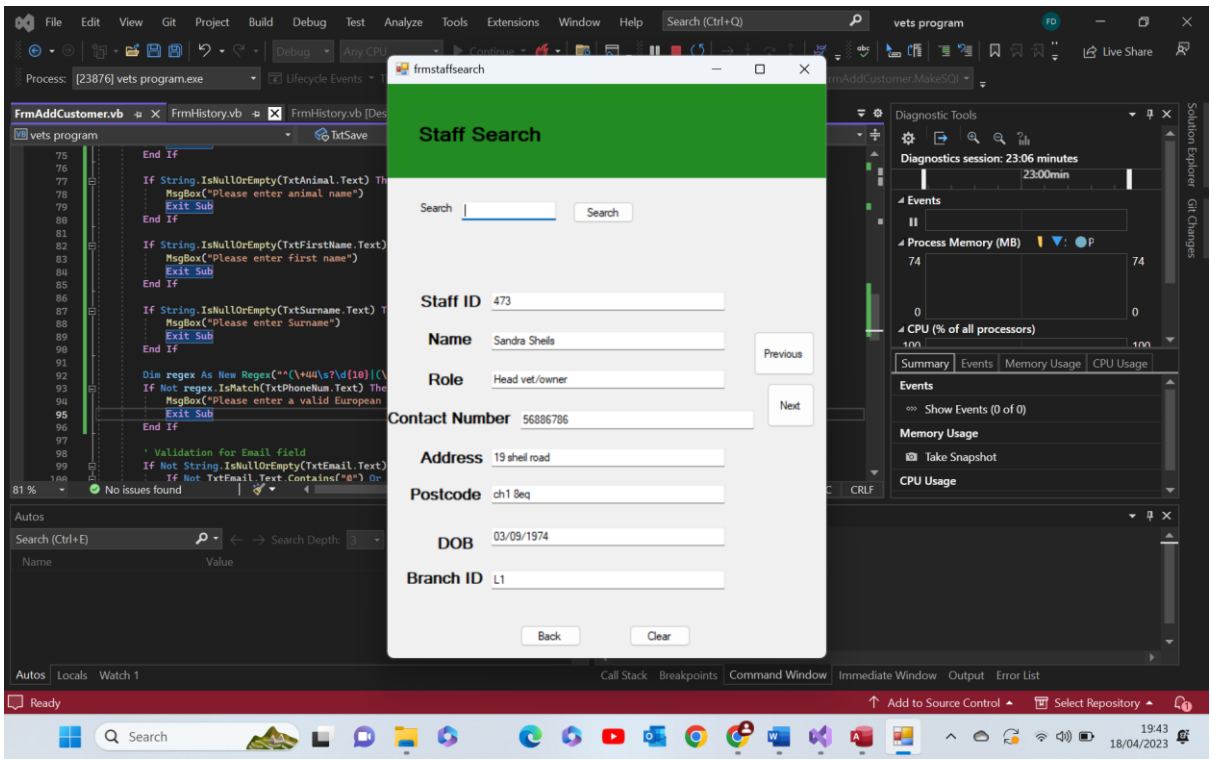
14.2-

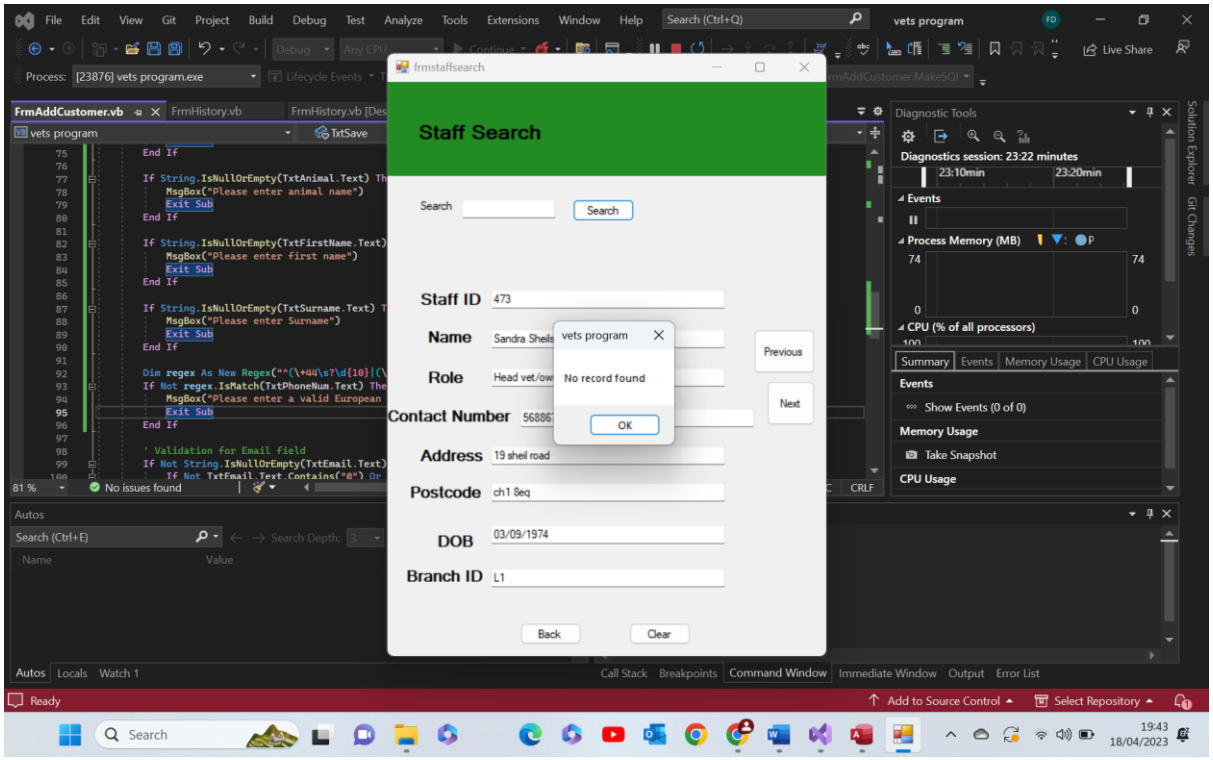




Test 14.2 comments- as we can see above when invalid data in entered into the search bar the program recognises that the name does not match any saved record in the database. It the outputs a message box warning the user of the issue. Pass

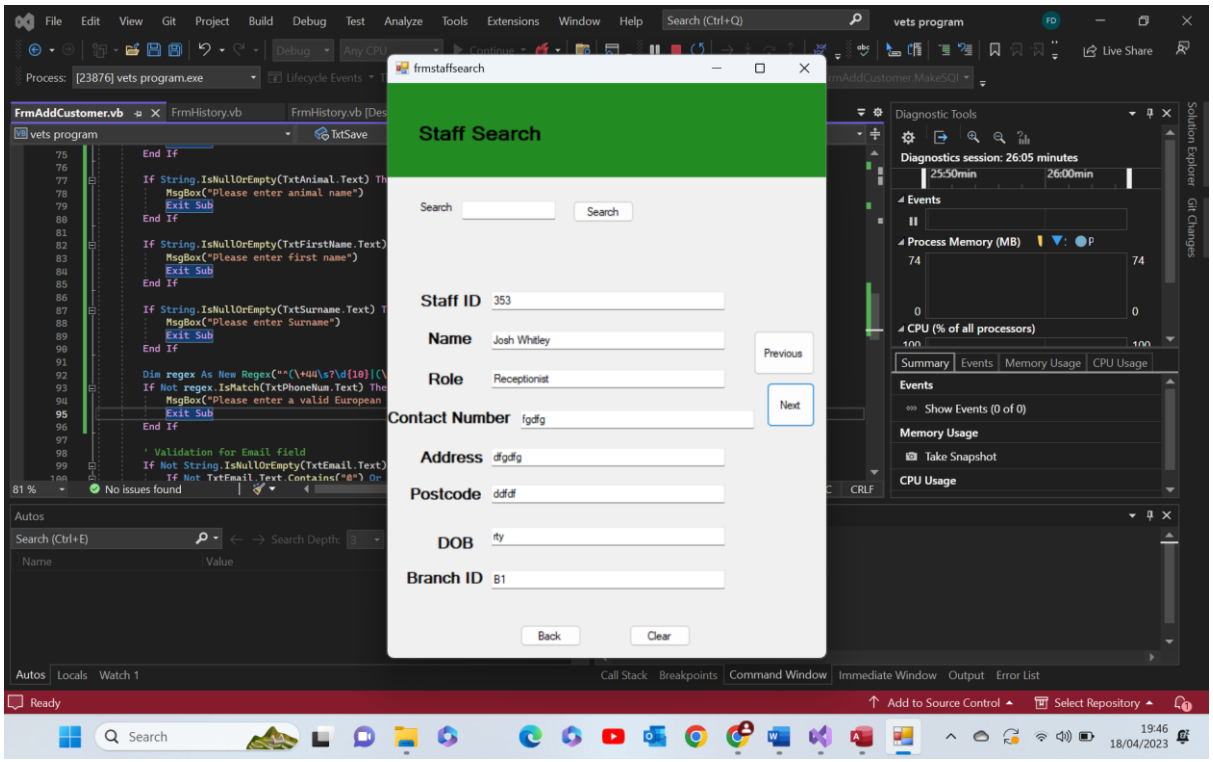
14.3-

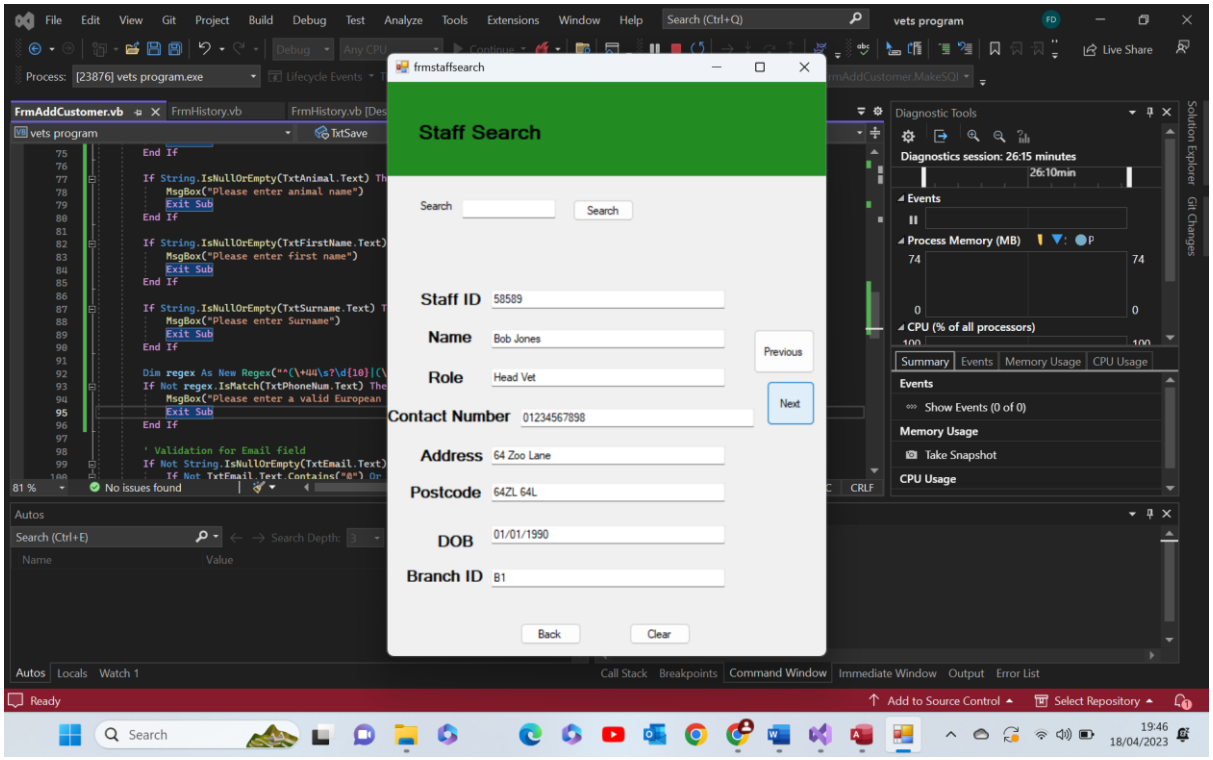


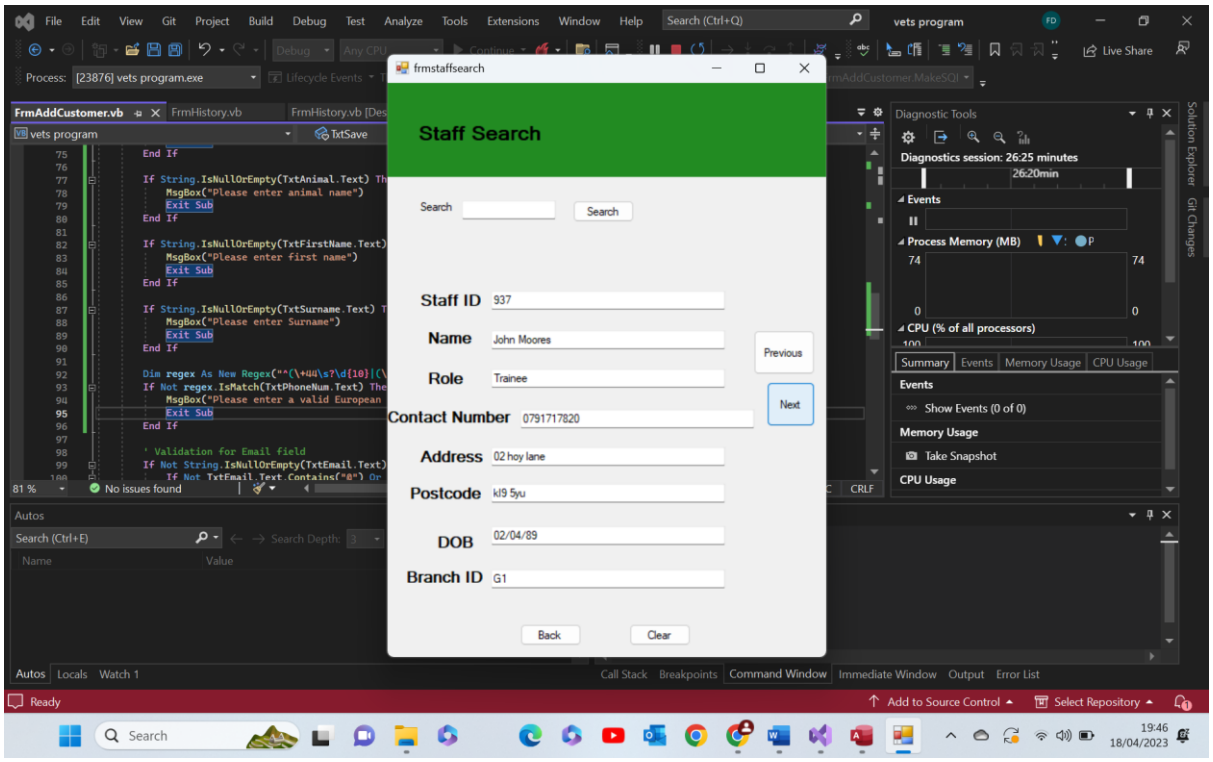


Test 14.3 comments – as we can see when extreme data in entered, in this case a null text box, the program also recognises this data does not exists in the database and so outputs an appropriate message box. One improvement I could imagine is adding a specific function for when the search bar is null saying 'no data entered' just so the user can distinguish between them. Pass

14.4-

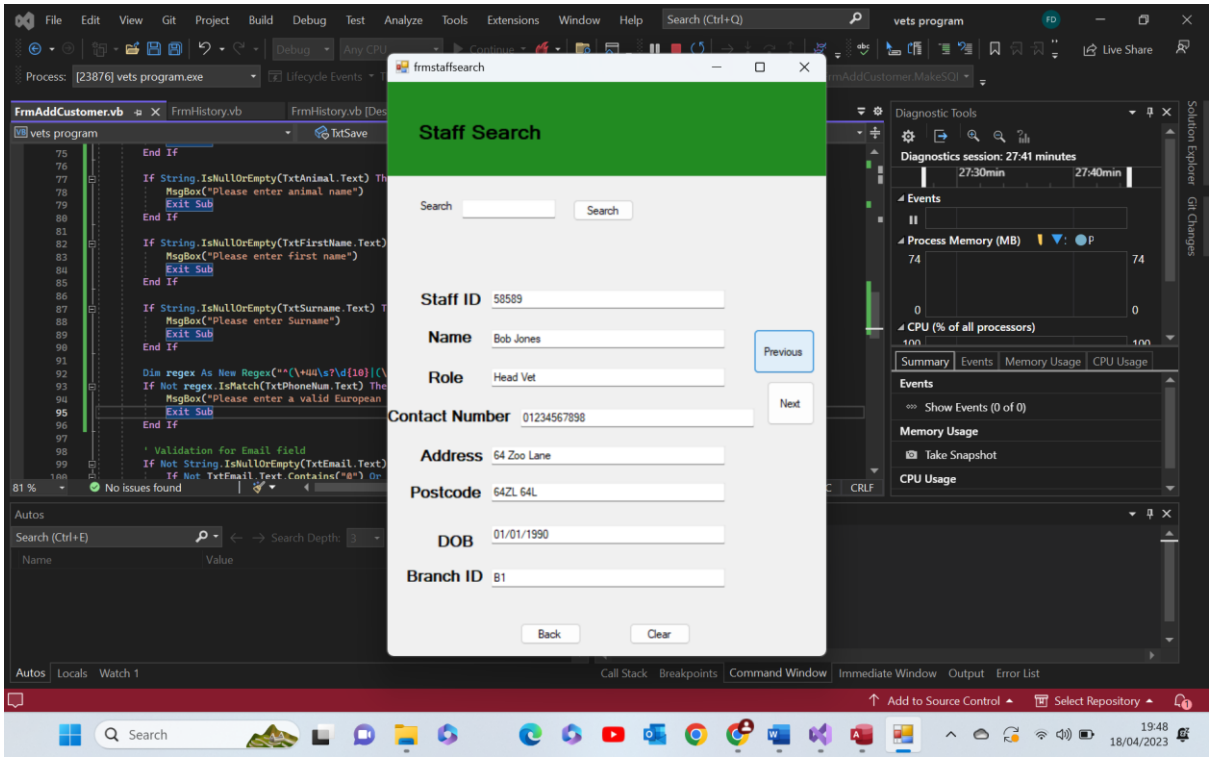


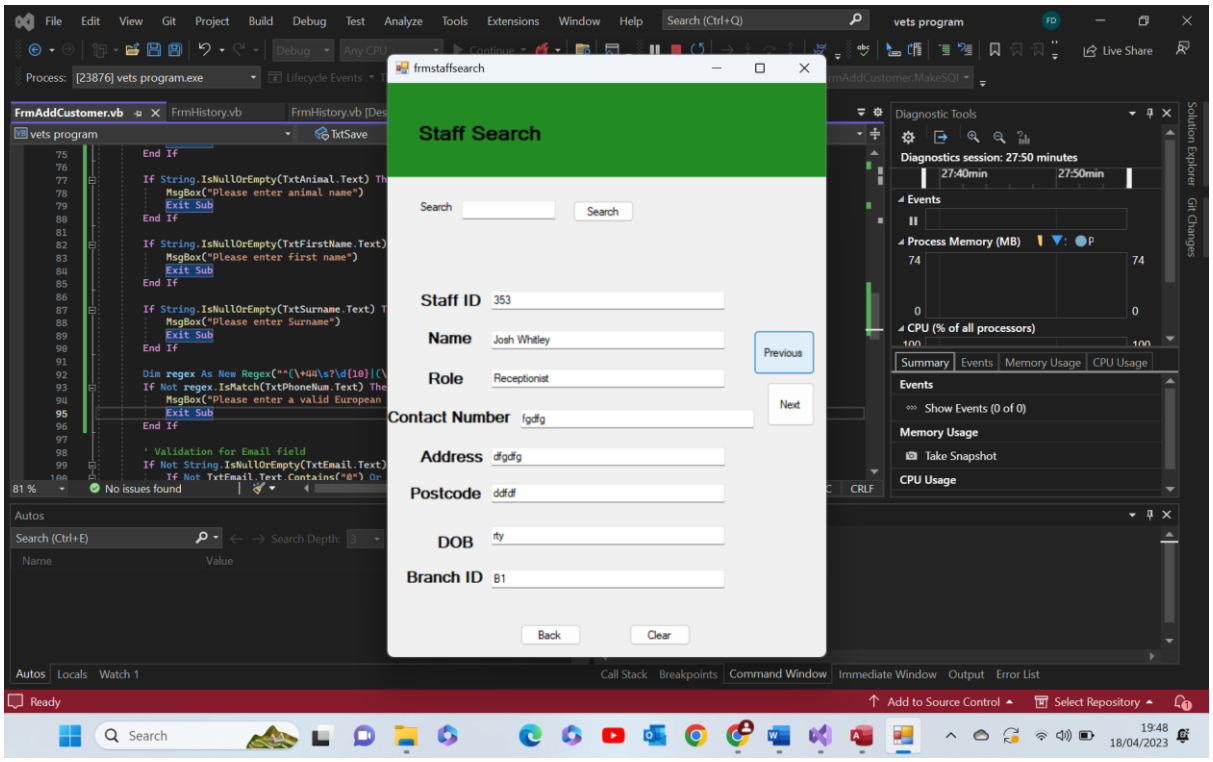


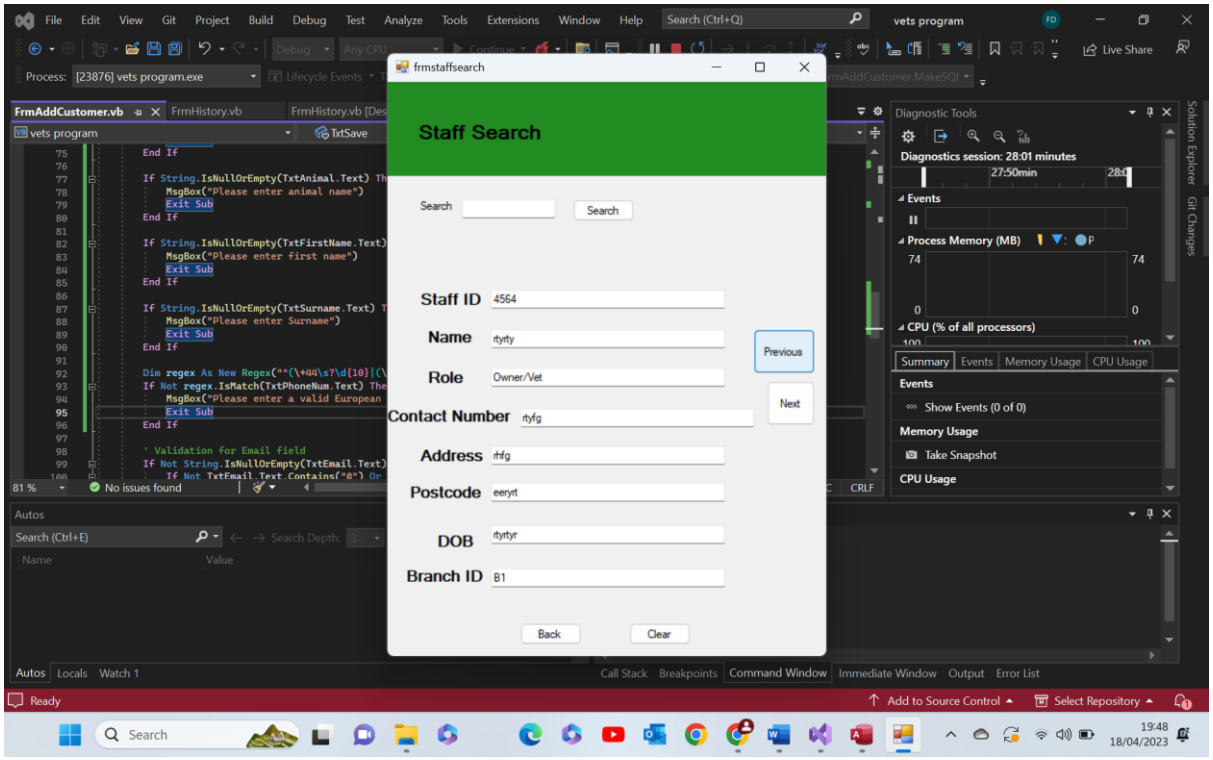


Test 14.4 comments- as we can see when the next button is selected the program cycles through all the records saved in the staff table in the database and writes the new data into the text boxes in place of the old. Pass

14.5-

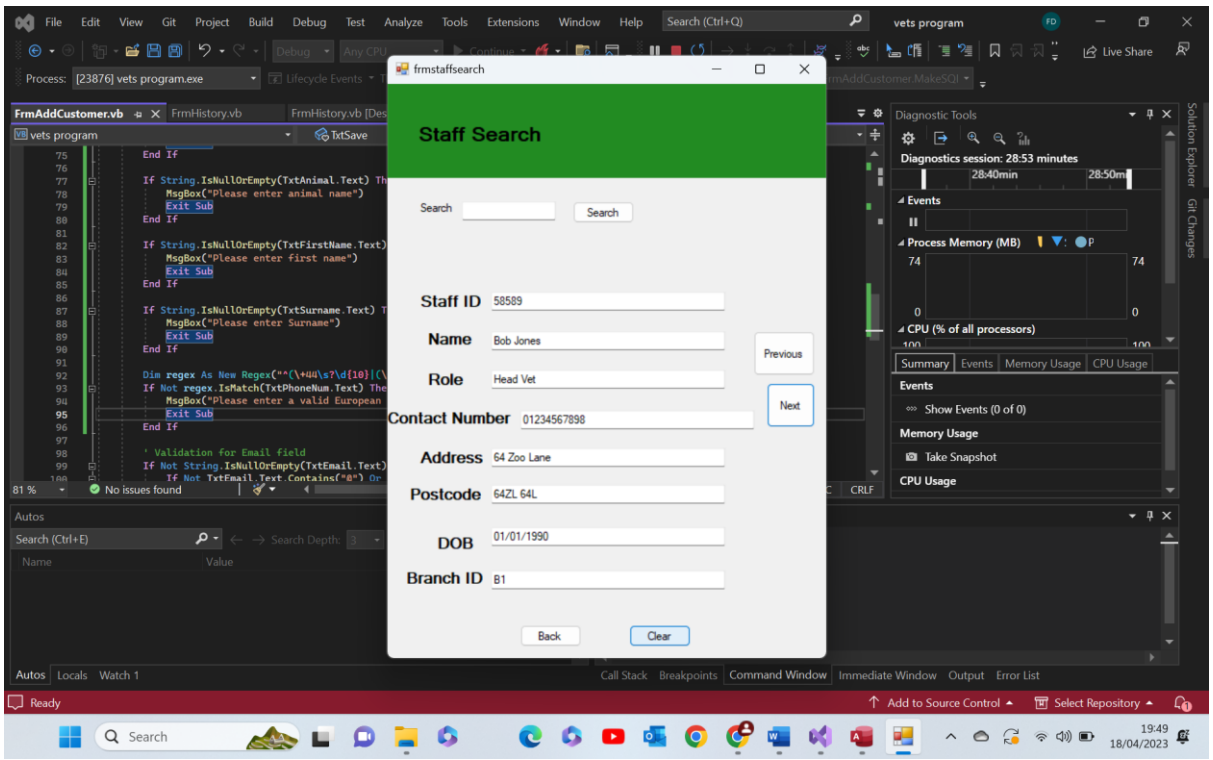

frmstaffsearch
Staff Search
Search
Search
Staff ID 58589
Name Bob Jones
Role Head Vet
Contact Number 01234567898
Address 64 Zoo Lane
Postcode 64ZL 64L
DOB 01/01/1990
Branch ID B1
Previous
Next
Back
Clear

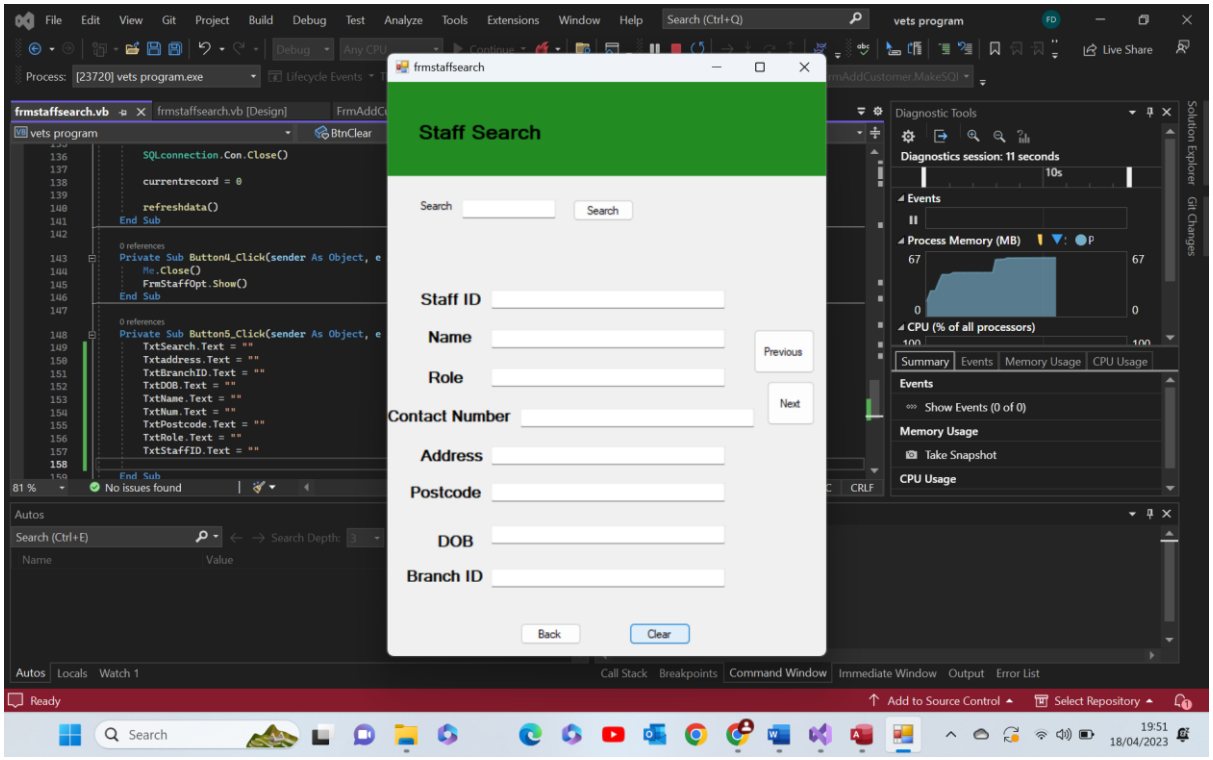

frmstaffsearch
Staff Search
Search
Search
Staff ID 353
Name Josh Whitley
Role Receptionist
Contact Number fgdfg
Address dfgdfg
Postcode ddfdf
DOB rty
Branch ID B1
Previous
Next
Back
Clear



Test 15.5 comments - as we can see when the previous button is selected the program cycles through all the records saved in the staff table in the database and writes the new data into the text boxes in place of the old. Pass

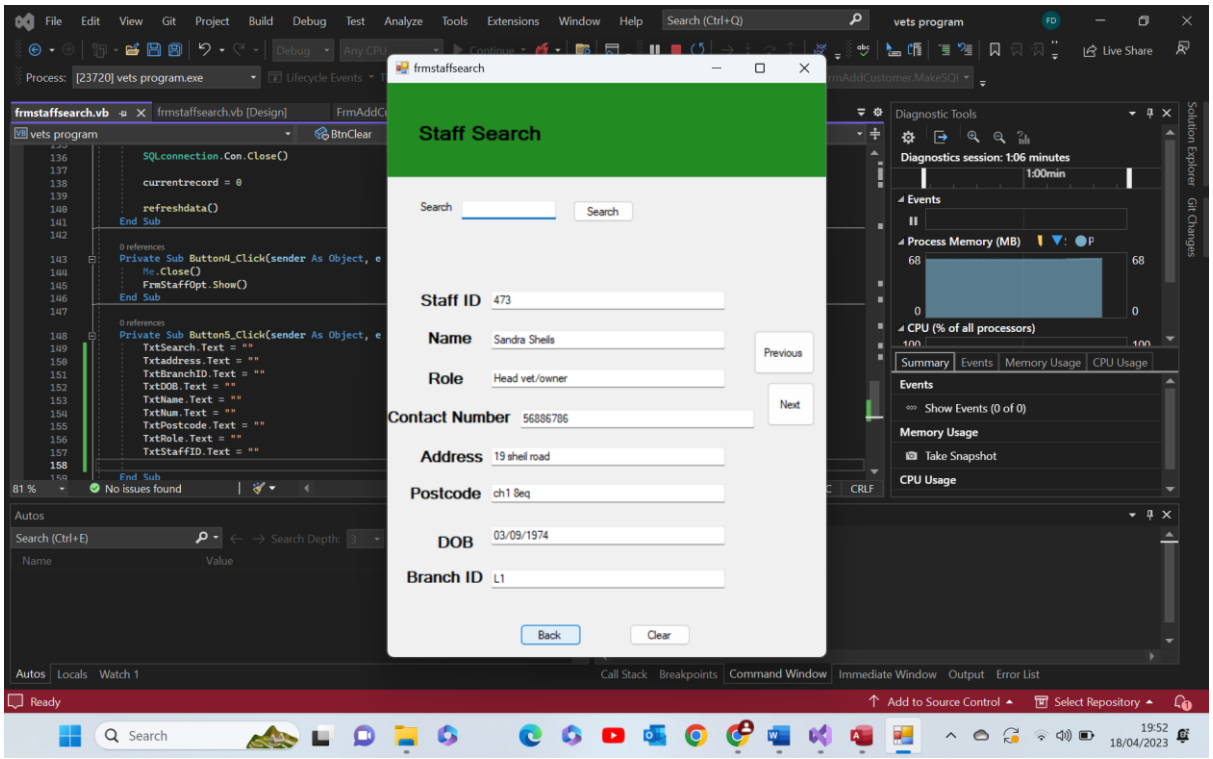
14.6-

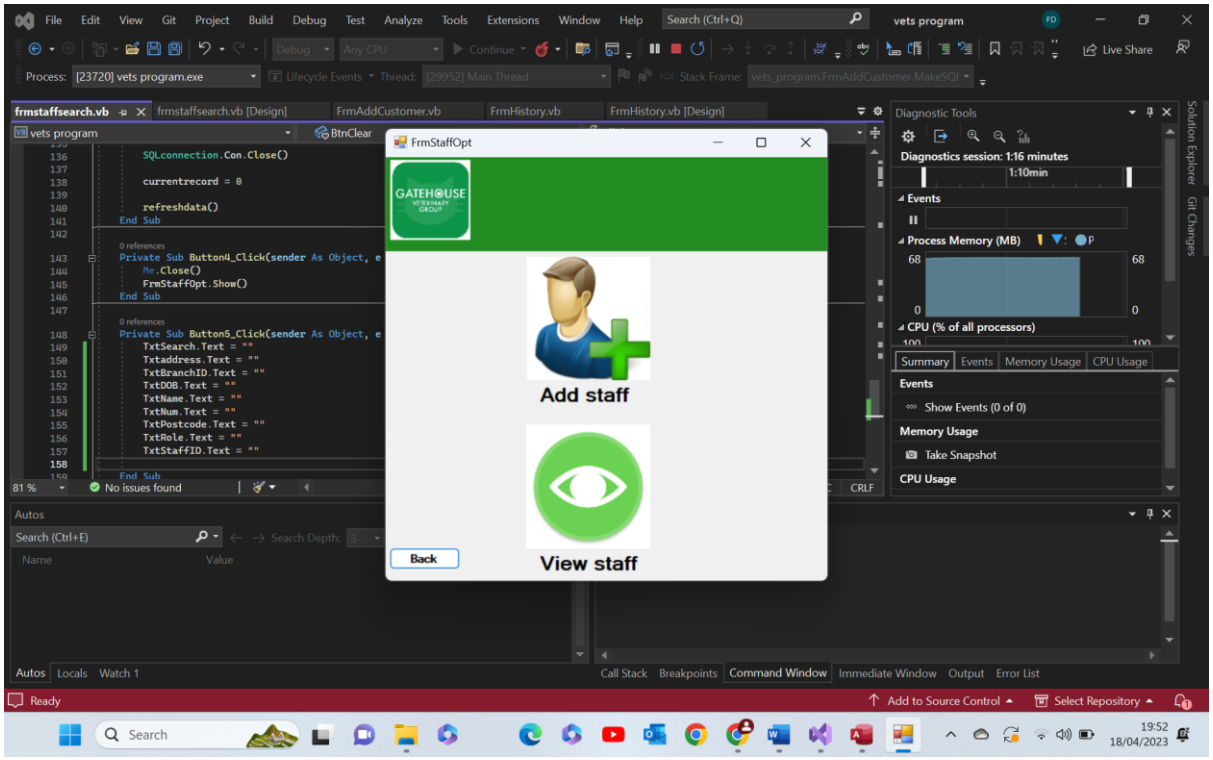




Test 14.6 comments- as we can see when the clear button is pressed all text boxes are set = “” and so become clear. Pass

14.7-





Test 14.7 comments- as we can see when the back button is selected the view staff form is hidden and the staff option form is shown.

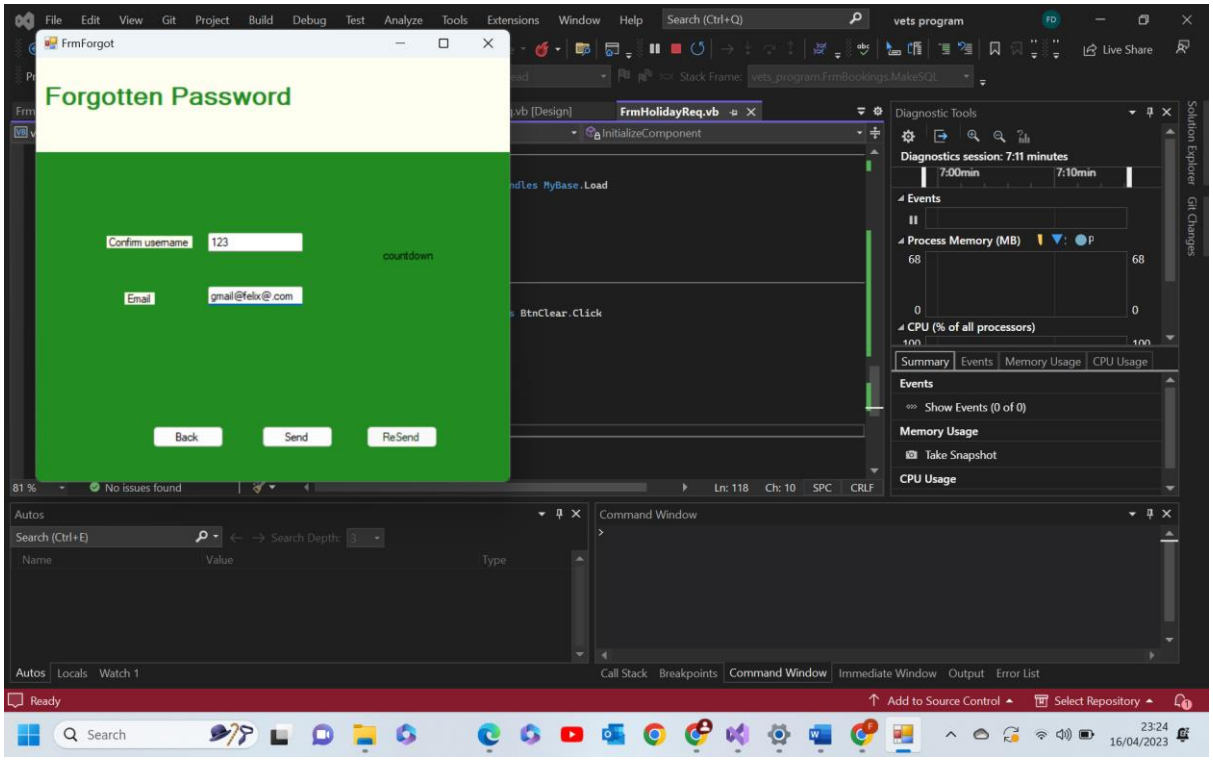
Test group 15- Forgotten Password form:

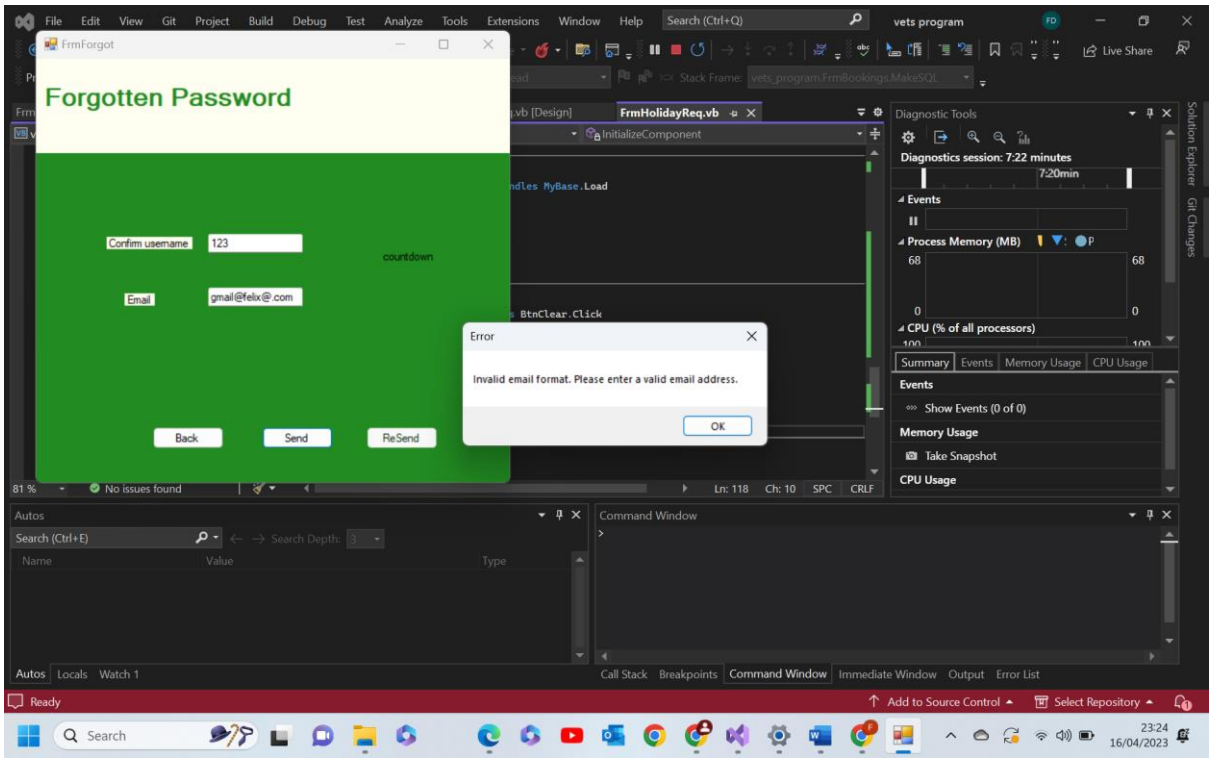
Test number	Test data	Actual outcome	Verdict	Comments
1	Invalid data used ‘gmail@felix@.com’	As expected the program checked the email against the valid example it has in the code and recognised it had failed the format check. A message box was then output and the email not sent	Pass	N/A
2	Extreme data used	As expected the program recognised the lack of data, output a message box and didn’t	Pass	N/A

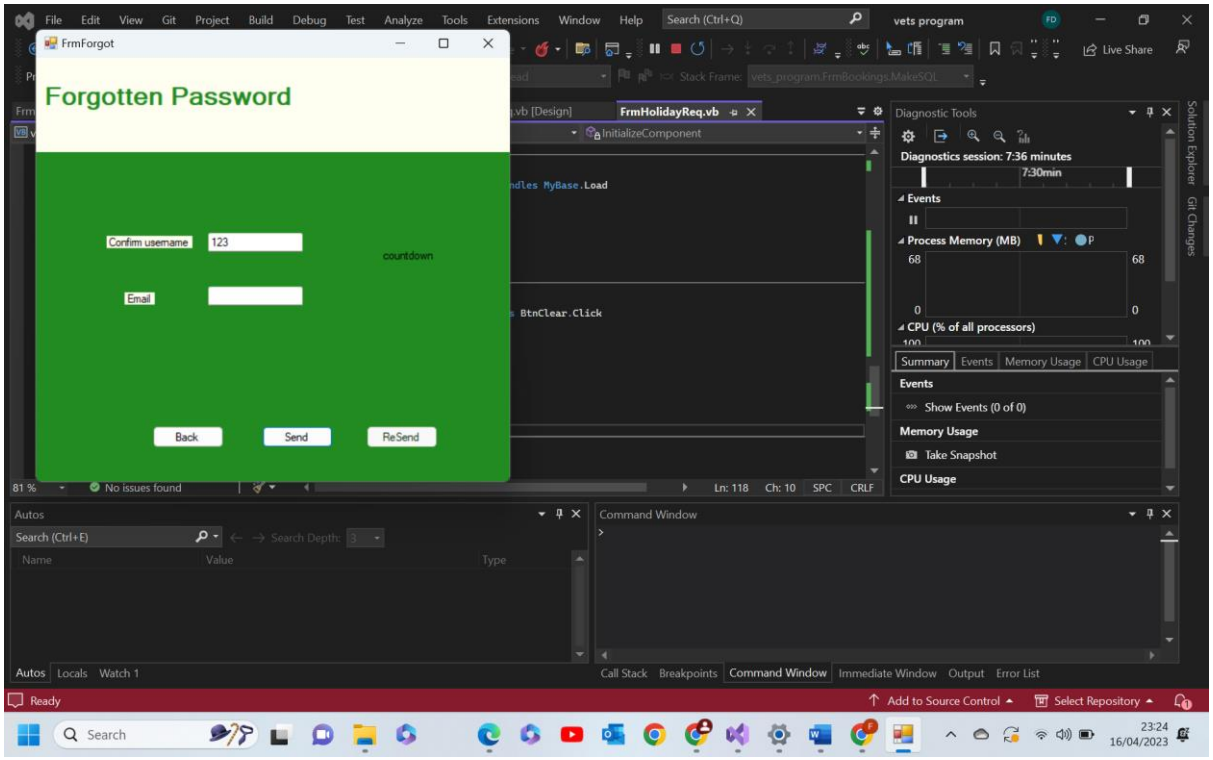
		send the email		
3	**Extreme data used**	**As expected the program recognised the lack of data, output a message box and didn't send the email**	**Pass**	**N/A**
4	**Valid data used Username: 123 Email: Felixvandijkk@gmail.com**	**As expected the program attempted to send an email and of course failed as I have not paid for an smtp. Instead a message box appeared showing what the email would have looked like along with an explanation of why it didn't work.**	**Pass**	**N/A**
5	**Valid data used Username: 123 Email: Felixvandijkk@gmail.com**	**As expected the program attempted to send a follow up email and of course failed as I have not paid for an smtp. Instead a message box appeared showing what the email would have looked like along with an explanation of why it hasn't worked**	**Pass**	**N/A**
6	**Functional test Re send pressed Valid data entered Username: 123 Email: Felixvandijkk@gmail.com**	**As expected when valid data was entered and the re send button was pressed a timer appeared**	**Pass**	**N/A**

		counting down from 60 which indicates when you can attempt to send the email again		
7	**Functional test Form loaded**	**As expected when the send button is pressed it becomes read only leaving only the re send button. Additionally when re send was pressed it became read only until the timer ran out. This is to prevent spamming**	**Pass**	**N/A**
8	**Functional test Back Button pressed**	**Current form closed and main menu login form opened.**	**Pass**	**N/A**

15.1-

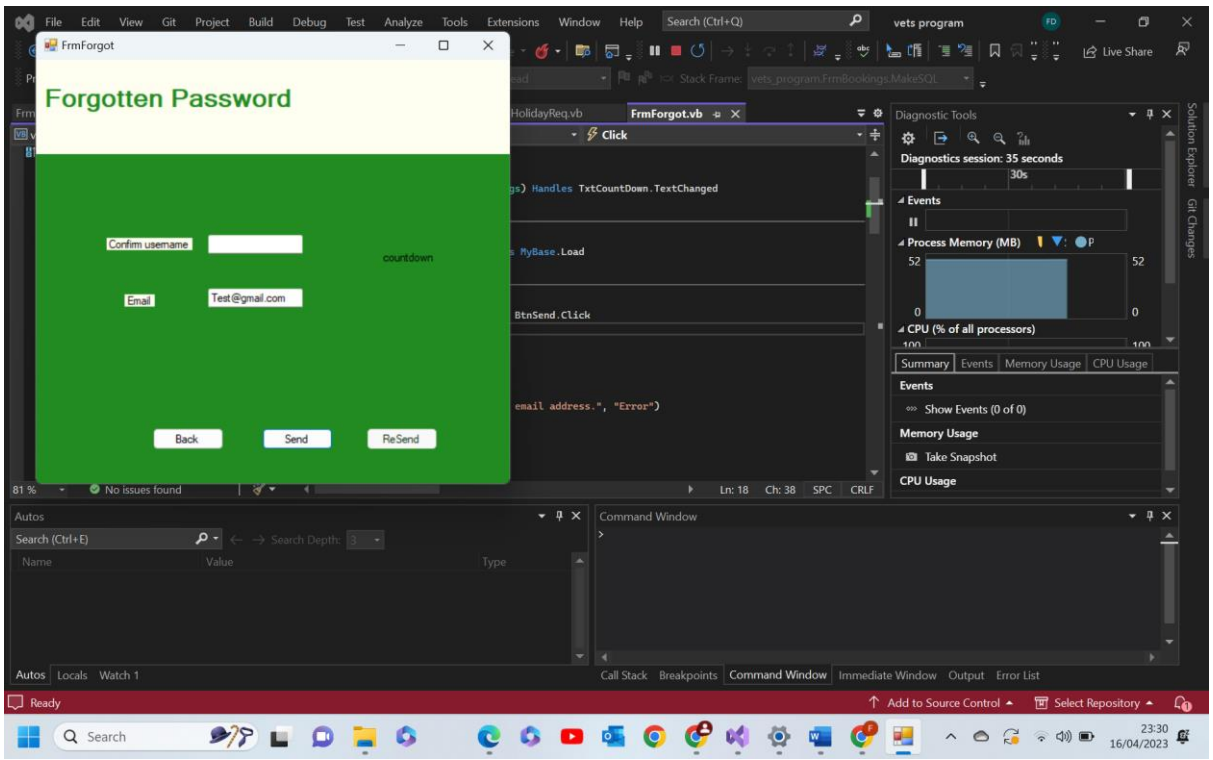

FrmForgot
Forgotten Password
Confirm username
123
countdown
Email
gmail@felix@.com
Back
Send
ReSend
FrmHolidayReq.vb
InitializeComponent
BtnClear.Click
Diagnostic Tools
Diagnostics session: 7:11 minutes
Events
Process Memory (MB)
CPU (% of all processors)
Summary
Events
Memory Usage
CPU Usage
Show Events (0 of 0)
Take Snapshot
Autos
Command Window
Ready
Add to Source Control
Select Repository

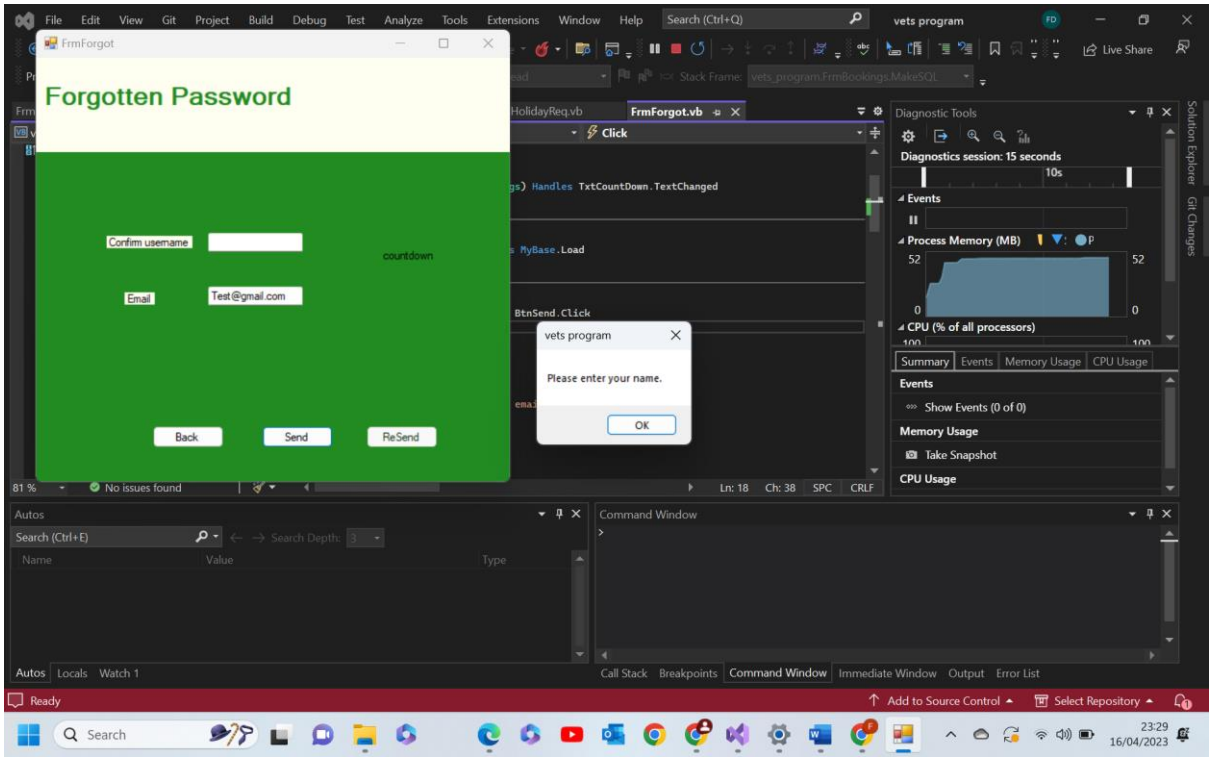

FrmForgot
Forgotten Password
Confirm username
123
countdown
Email
gmail@felix@.com
Back
Send
ReSend
Error
Invalid email format. Please enter a valid email address.
OK
FrmHolidayReq.vb
InitializeComponent
BtnClear.Click
Diagnostic Tools
Diagnostics session: 7:22 minutes
Events
Process Memory (MB)
CPU (% of all processors)
Summary
Events
Memory Usage
CPU Usage
Show Events (0 of 0)
Take Snapshot
Autos
Command Window
Ready
Add to Source Control
Select Repository



Test 15.1 comments- as we can see from above when an invalid email address is entered that does not comply with the format check, the program recognises the fault and outputs an appropriate message box. It also does not attempt to send the email as it has not passed the validation then clearing the email text box so the user can try again. Pass

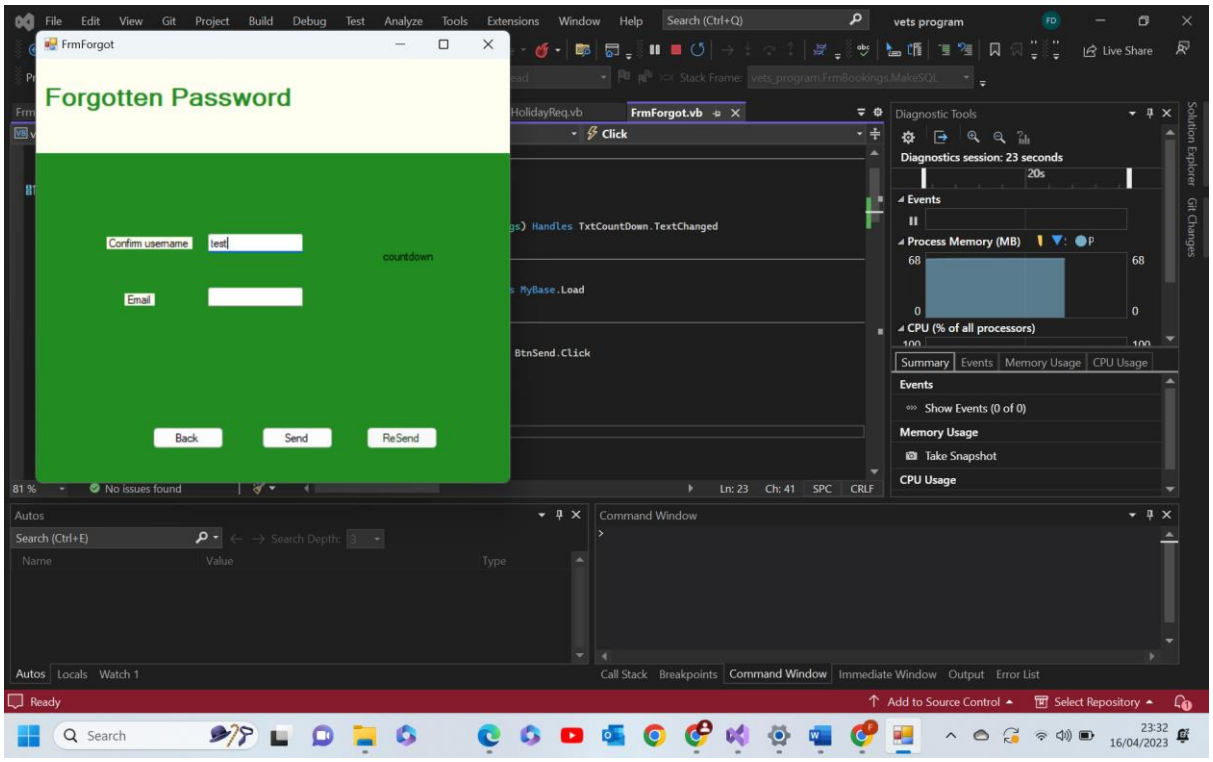
15.2-

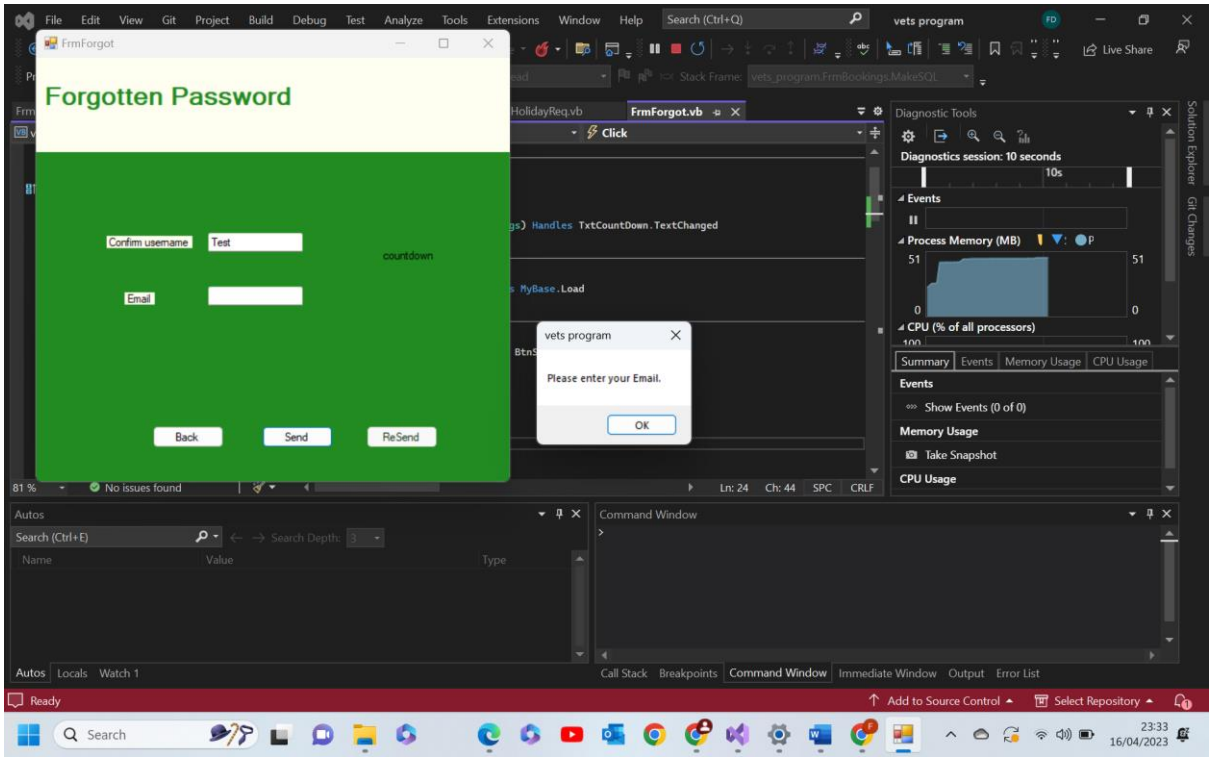




Test 15.2 comments- as we can see a successful presence check has been ran on the data in text box Username, the data was not sent due to this failure of validation. Pass

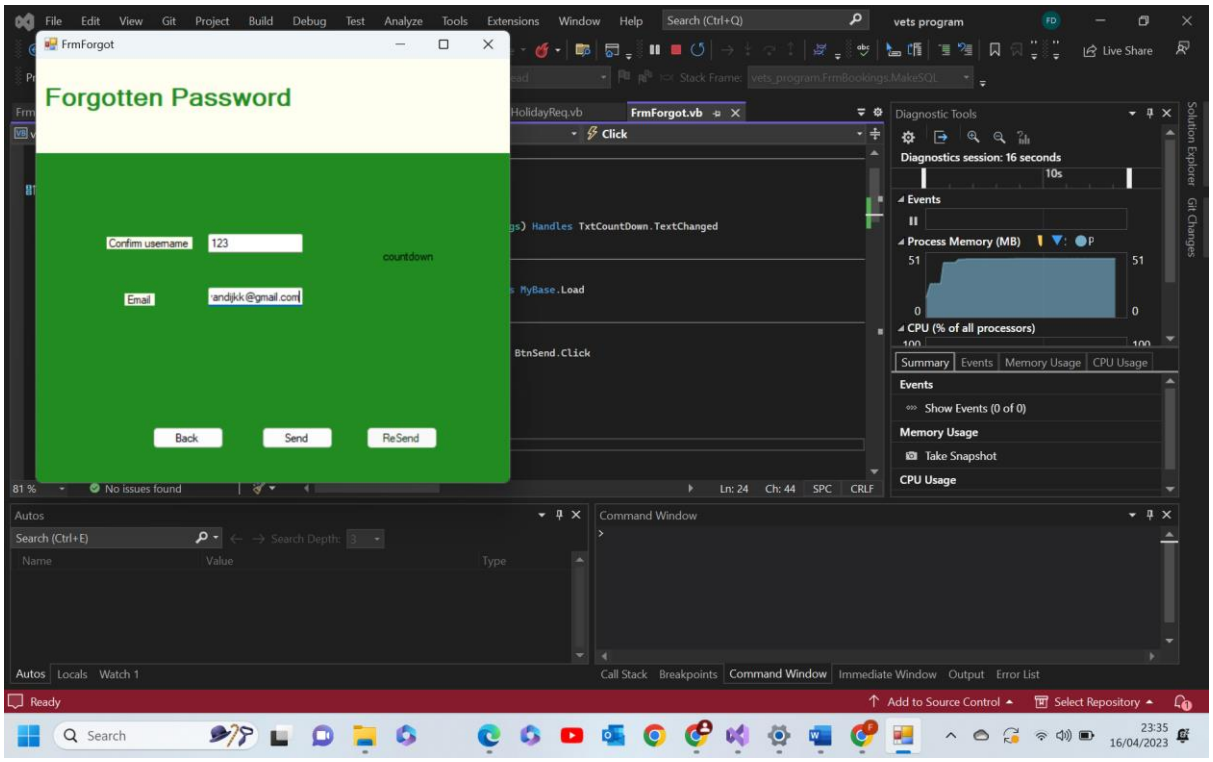
15.3-

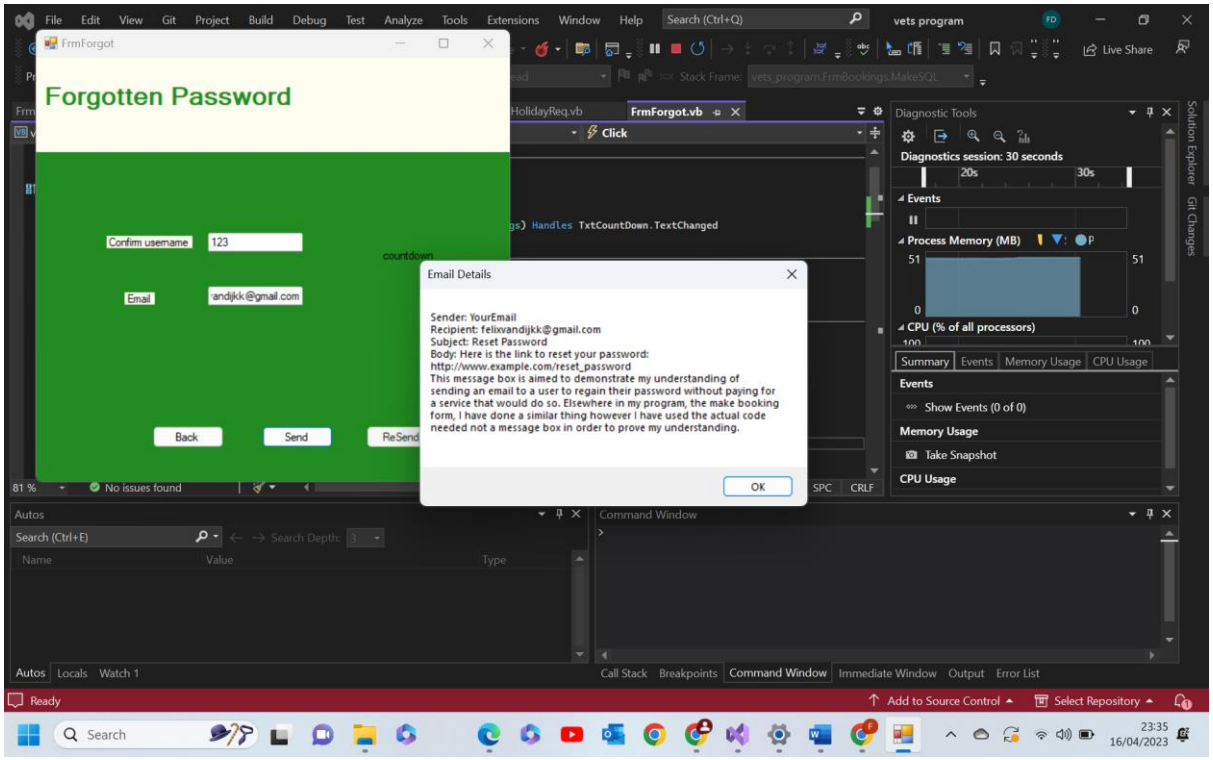




Test 15.3 comments- as we can see a successful presence check has been ran on the data in text box email, the data was not sent due to this failure of validation. Pass

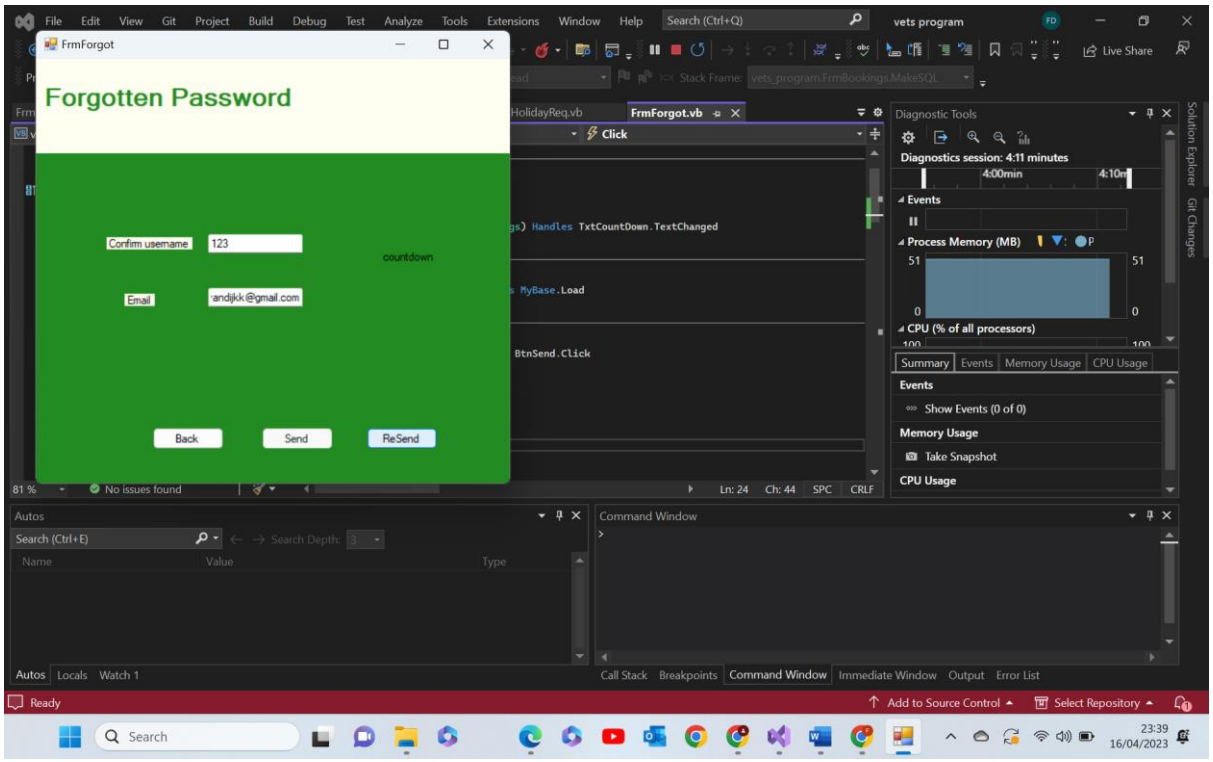
15.4-

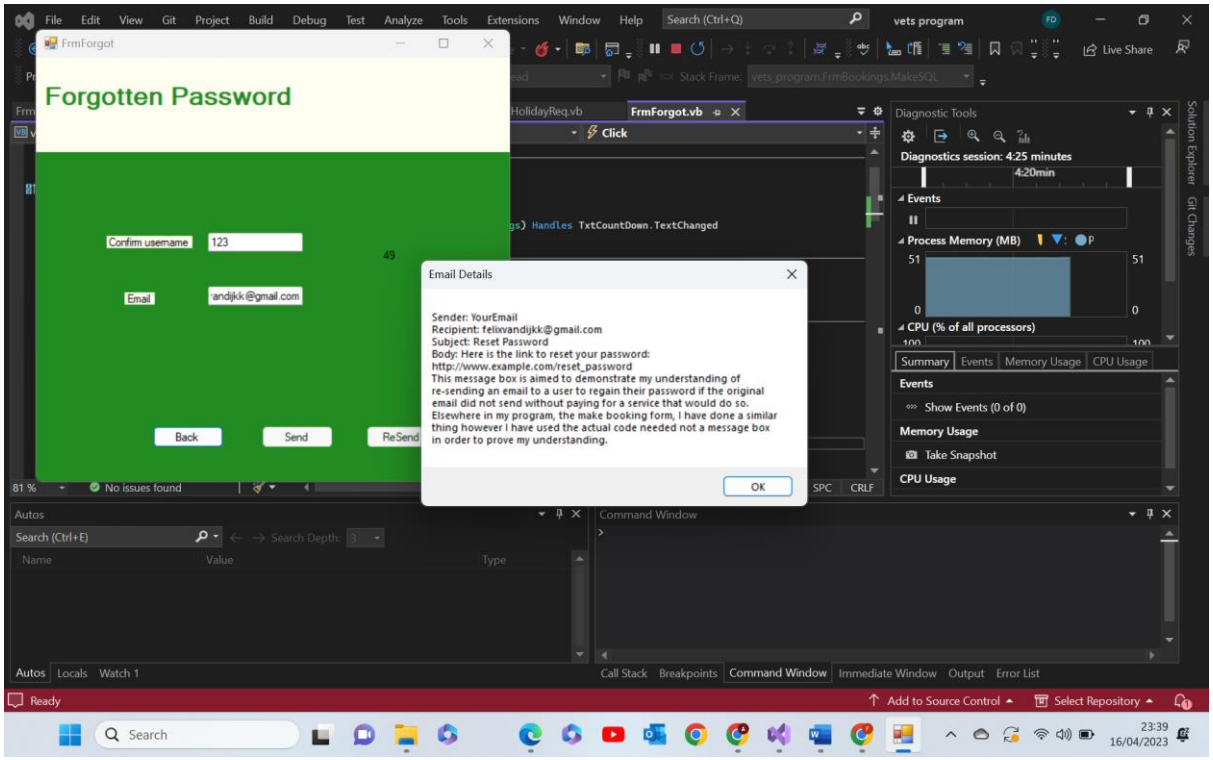




Test 15.4 comments- as we can see above when a valid username/ID and email address is used the programs shows how an email would look If I had paid for the SMTP to be able to send emails. This shows the header the recipient the sender and all the info in the email as it would appear, that being the link to regain ones password. This is accompanied by a message explaining what's happening. Pass

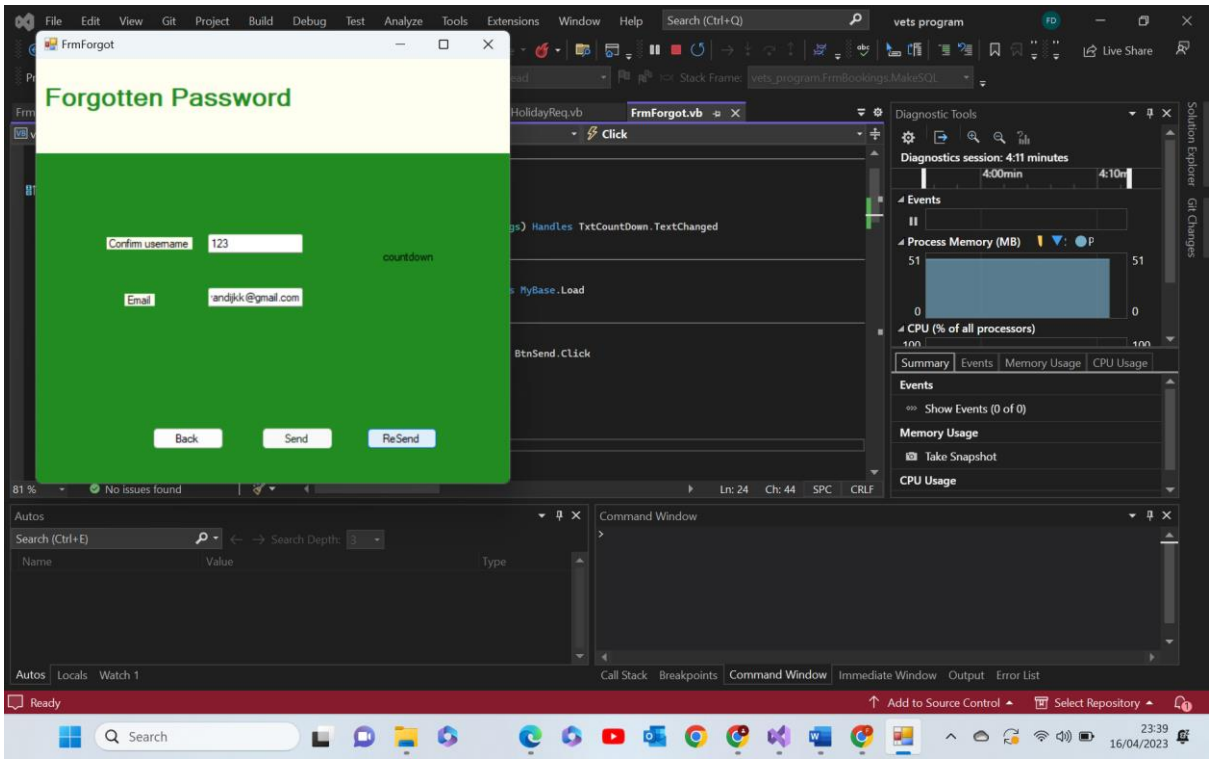
15.5-

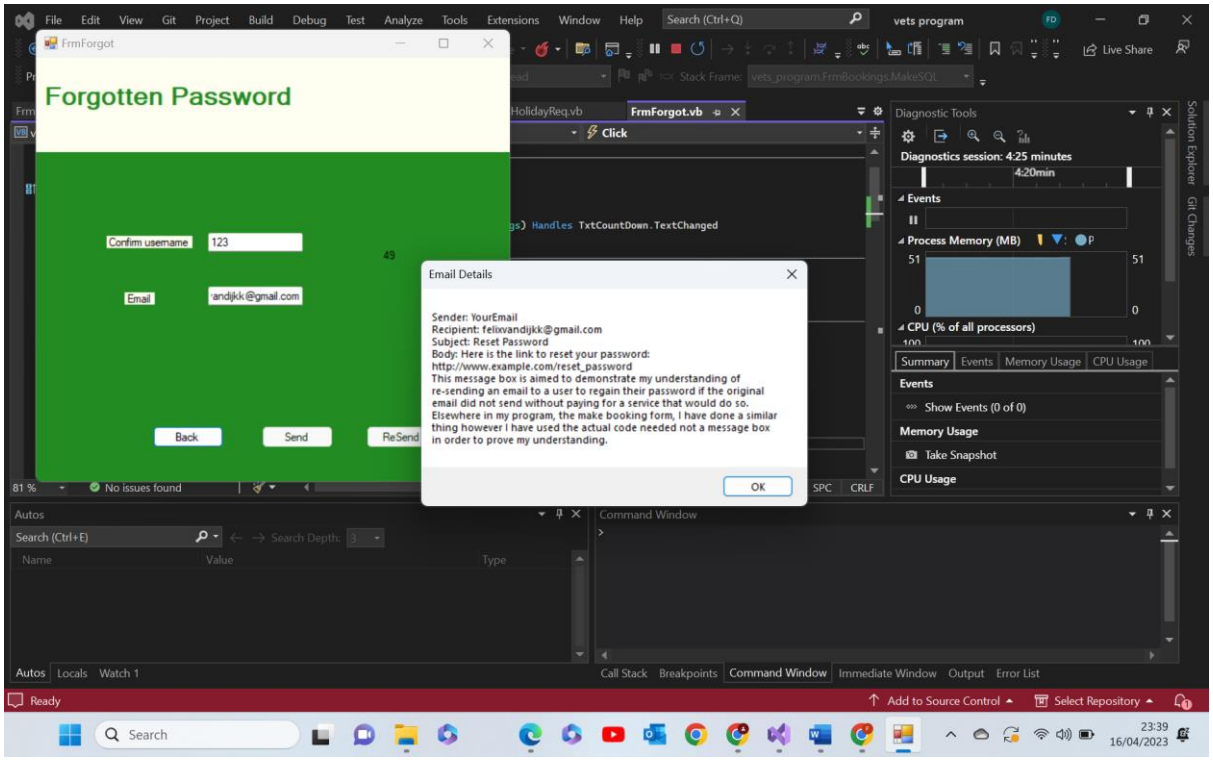


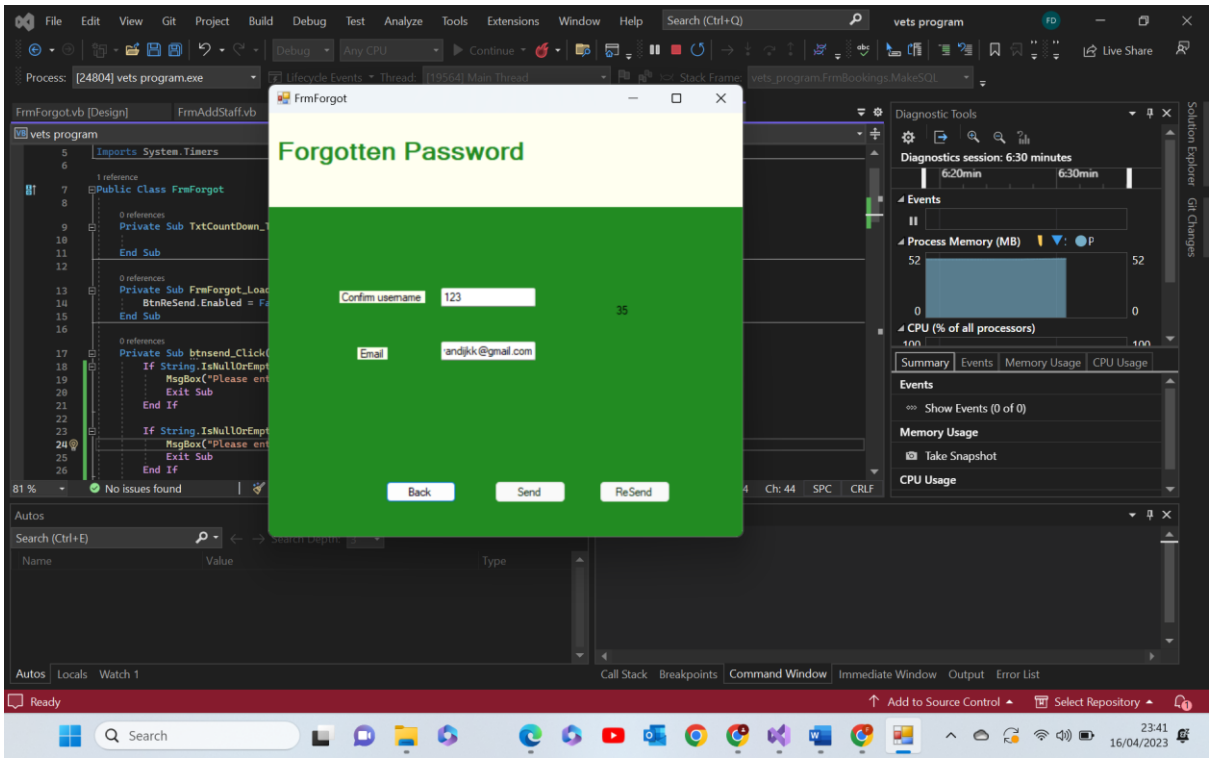


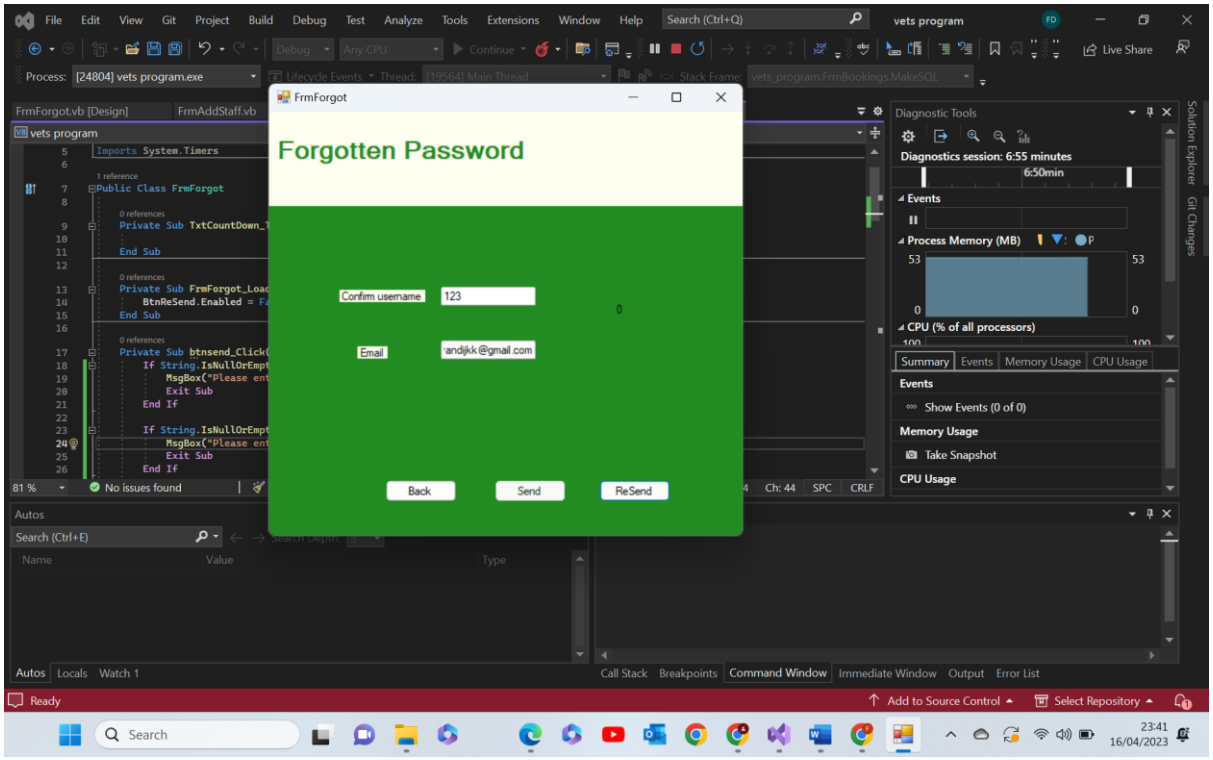
Test 15.5 comments- as we can see above when a valid username/ID and email address is used the programs shows how an re sent email would look If I had paid for the SMTP to be able to send emails. This shows the header the recipient the sender and all the info in the follow up email as it would appear, that being the link to regain ones password. This, again, is accompanied by a message explaining what's happening. Pass

15.6-



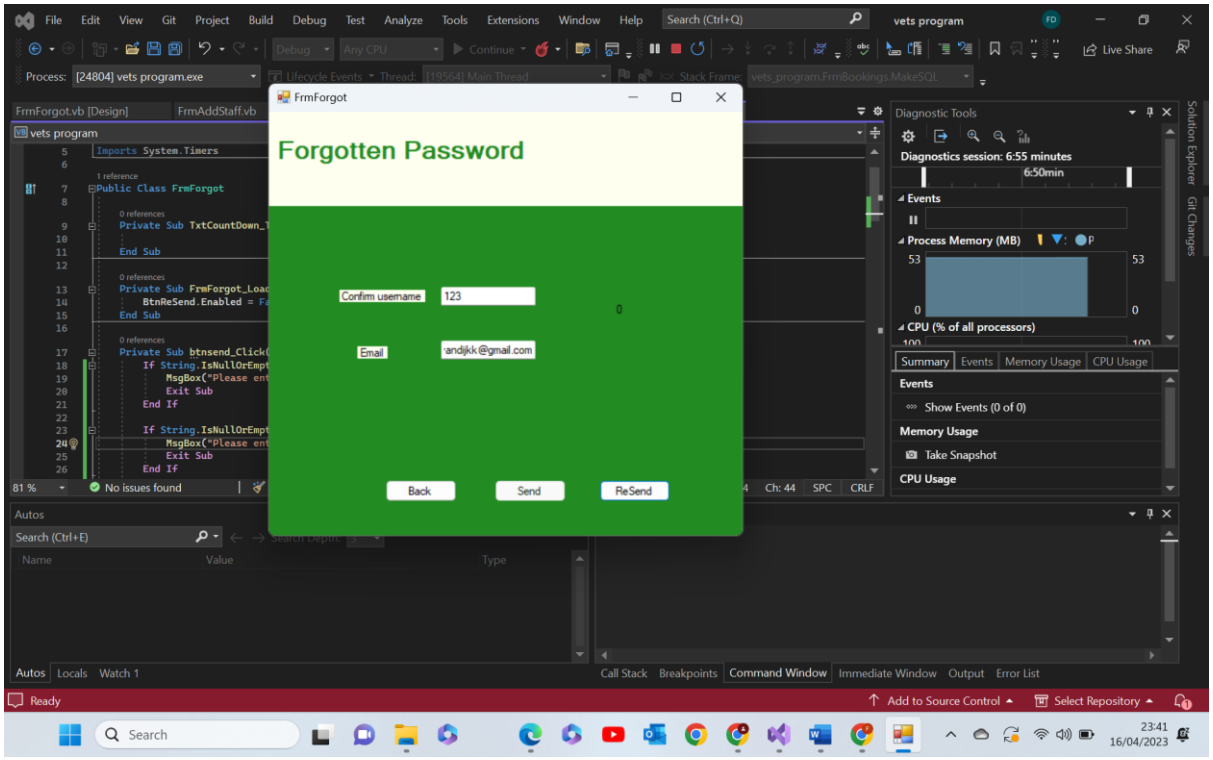

FrmForgot
Forgotten Password
Confirm username
123
Email
andijkk@gmail.com
Back
Send
ReSend
Email Details
Sender: YourEmail
Recipient: felixvandijkk@gmail.com
Subject: Reset Password
Body: Here is the link to reset your password:
http://www.example.com/reset_password
This message box is aimed to demonstrate my understanding of re-sending an email to a user to regain their password if the original email did not send without paying for a service that would do so. Elsewhere in my program, the make booking form, I have done a similar thing however I have used the actual code needed not a message box in order to prove my understanding.
OK
Diagnostic Tools
Diagnostics session: 4:25 minutes
Events
Process Memory (MB)
CPU (% of all processors)
Summary
Events
Memory Usage
CPU Usage
Show Events (0 of 0)
Take Snapshot
Autos
Command Window
Ready
Add to Source Control
Select Repository

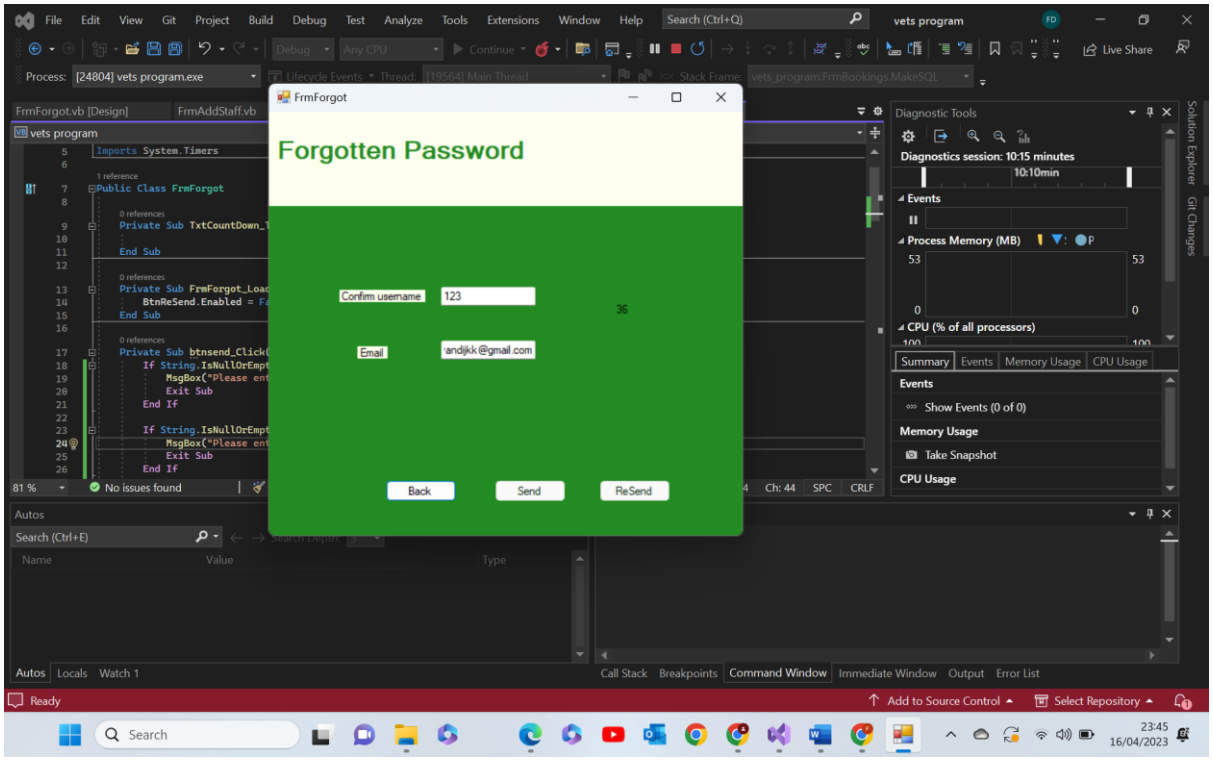

FrmForgot
Forgotten Password
Confirm username
123
Email
andijkk@gmail.com
Back
Send
ReSend
Diagnostic Tools
Diagnostics session: 6:30 minutes
Events
Process Memory (MB)
CPU (% of all processors)
Summary
Events
Memory Usage
CPU Usage
Show Events (0 of 0)
Take Snapshot
Autos
Command Window
Ready
Add to Source Control
Select Repository

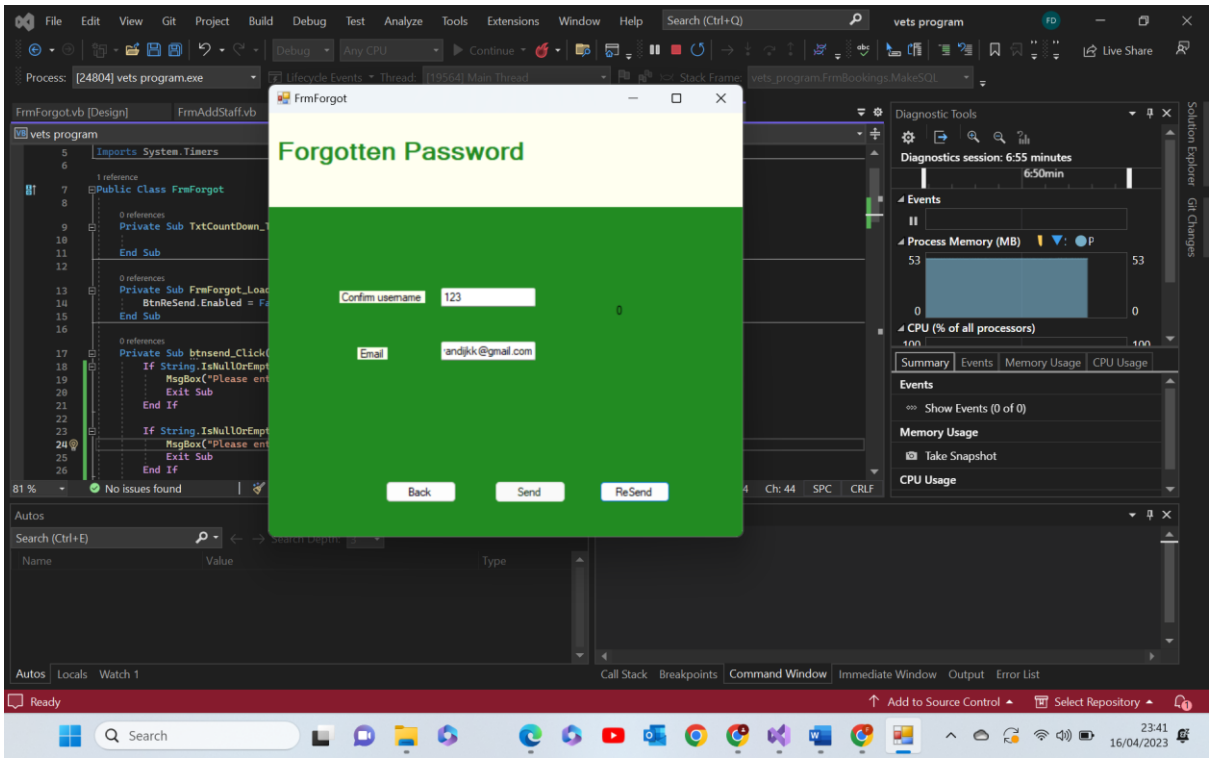


Test 15.6 comments- as we can see above I have shown the process of the timer. Once the re send button is pressed the small pop up form appears showing the mock email, and in the back appears a timer, in the first screenshot it reads 49 and in the second once I have clicked of the mock email message box it shows 39. In the last screenshot we can see it showing 0. This is to prove it has counted down and prove that it is the re send button that initiates it. Pass

15.7-

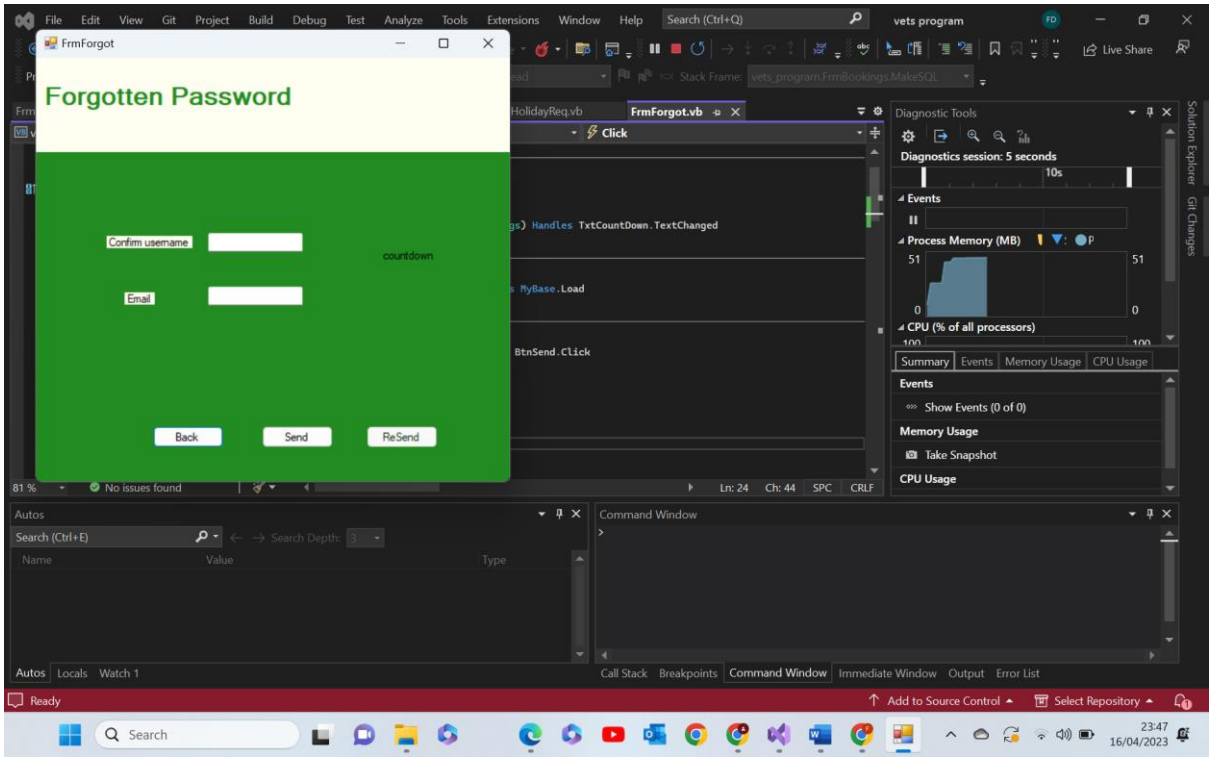


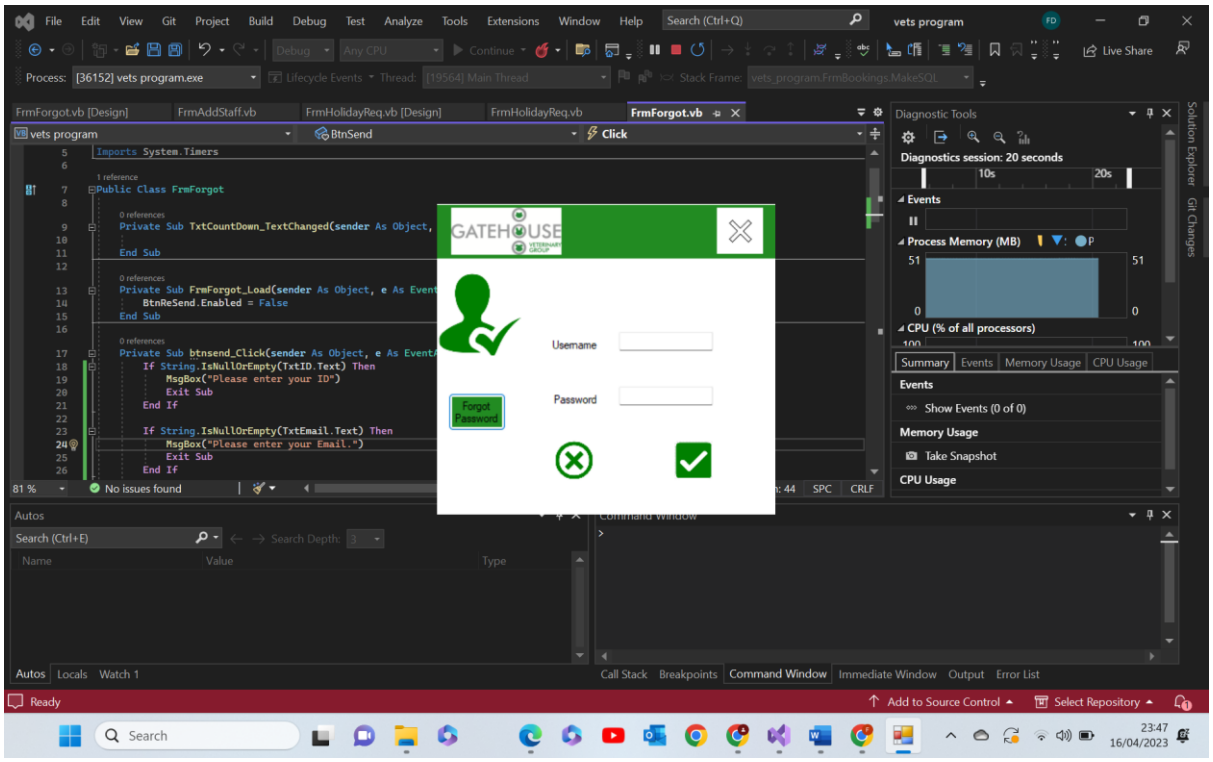




Test 15.7 comments- the initial screenshot shows that once the send button has been pressed it becomes read only for the rest of the running of the program. The second screenshot shows that whilst the timer is counting down both buttons are read only, the third screenshot, whilst it is similar to the first, is aimed to show that once the timer runs out the re send button becomes available again. Pass

15.8-





Test 15.8 comments- as we can see above when the back button is pressed the forgot password form Is hidden and the login form is shown. Pass

Suggestions to refine my system:

One refinement I could make to my system would be displaying altering message boxes when invalid and extreme data is searched for. Rather than one message box saying "no records found" regardless of whether the data is invalid extreme, null in this case, I could have message box saying " no data inputted" for when the user leaves the search box empty.

In a similar vein, another possible refinement I could make is that when the user attempts to delete a record when no record is present in the text boxes an error message should be displayed, something along the lines of "no data selected." As of now it acts as normal and attempts to delete despite the null data.

Another edit I could make to further refine my system would be the addition of an edit button on the programmatically generated booking information form. This would allow the staff member to quickly remove or change any information to do with the booking improving the efficiency and overall usefulness of the function.

Another edit of I could make to further refine my system would be that the program checks if the ID it has generated already exists as the form loads, if the ID already exists then the program would generate a new one and so on until it finds a unique one. As of now the program has a feature that checks if that ID exists before letting the user save however I believe this new refinement could be more efficient and time saving.