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Veterinary program testing

Testing plan:

Throughout this document I will be testing my project. These tests cover the subroutines and functions on all forms included on my project.

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

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.

Test data plan

| Key: Group.TestNumber |
|-----------------------|
| E.g. Group1.Test1 |
| =1.1 |
| Group7.Test15 |
| =7.15 |

| Test group | Form | Data to be used |
|------------|-------|-------------------------------------------------------------------------|
| 1 | Login | Correct username: 473 Correct password: Sheils (valid) |
| | | Incorrect password: 472 Correct password: Sheils (invalid) |
| | | <u>Correct username: 473</u> 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 |
| | | 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 | <u>Functional tests e.g.,</u> <u>button presses, DGV edits.</u> |
| | | 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 |
| | | <u>Valid, date with booking:</u> 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 |
| | | <u>Invalid: 900-00</u> |
| | | Valid: all data passed validation checks |
| | | • <u>03/03/2005</u> |

| | | • <u>12:00</u> |
|----|-----------------|-------------------------------------------------------------|
| 9 | History | Valid: Curtis Cox |
| | | Invalid: Curtis c0x |
| | | Extreme: void of data |
| 10 | Add customer | Invalid pre-existing: 123 |
| | | <u>Invalid:</u> <u>testATGmailDotCom</u> |
| | | <u>Invalid: 999</u> |
| | | 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 |
| | | <u>Invalid:999</u> |
| | | 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 |
| | | <u>Valid: 123</u> |
| | | <u>Valid</u> 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 | 6633 |
| 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 | Test | 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 | Test | Aim | Expected outcome |
|--------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| number | description | | |
| 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 | |
|----------|---------------------|---------------------|-----------------------------------------------------|
| | | showing other | |
| | | clients with the | |
| | | same last name | |
| | | this cycles | |
| | | forwards through | |
| | | the database | |
| 3 | Previous | When clients with | When pressed the data in the text boxes changes to |
| • | button | the same last | 'previous' data that fits the search criteria |
| | Nutren: | 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 | |
| 4 | Search | When the Text | No user found message box |
| | button | box that is used | |
| | Validation | for entering a | |
| | | search result is | |
| | | filled in with data | |
| | | that does not | |
| | | exist a message | |
| | | box should | |
| | | appear saying | |
| _ | | user not found | |
| 5 | Delete button | when there is | "Are you sure you want to delete" message box |
| | | data in the text | followed by removal of data |
| | | boxes and the | |
| | | the program | |
| | | chould use the | |
| | | connection string | |
| | | to access the | |
| | | database and | |
| | | remove the data | |
| 6 | Delete button | When there is no | "no data selected to remove" message box |
| v | | data in the text | ne auta colocica to follorio incodago box |
| | | boxes the | |
| | | program should | |
| | | recognise this | |
| | | and not removes | |
| | | anything | |
| 7 | Clear button | When button is | Text boxes become void of any data |
| | | pressed all data | |
| | | in all text boxes | |
| | | should become "" | |
| | | regardless of | |
| | | contents | |
| 8 | Back button | When pressed | Main Menu page opens proceeding closure of existing |
| | | should close | customers form |
| | | current form and | |
| | | open the | |

| | | 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 | Within the private | As soon as the form |
| | access data load | sub from load the | loads the |
| | | code for reading | information from |
| | | data from the | the table |
| | | access form and | 'tblBorrasstock' |
| | | inputting that | should be written |
| | | correct information | into the data grid |
| | | into an DataGrid | view |
| | | view is present. | |
| 2 | Data grid stock | The DataGrid view | When a stock level |
| | level edit | should allow for the | cell is selected the |
| | | user to select the | user can change it |
| | | stock level column | |
| | | and edit the data | |
| | | within | |
| 3 | Data Grid view | The program should | Values in Access |
| | Stock level save | overwrite the old | database are |
| | button | data in the stock | updated to new |
| | | level column in the | desired values |
| | | the new inputted | |
| | | the new inputted | |
| 4 | Undated values | When the form is | Now values present |
| 4 | romain | closed and reloaded | when form is |
| | Temam | the program should | reloaded |
| | | now display the | reioadeu |
| | | changes values | |
| 5 | Back button | Current form should | Stock selector form |
| | | be hidden and stock | shown |
| | | selector form | |
| | | should be 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 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 | Information |
| | | name is entered | correlation with that |
| | | into the 'txtsearch' | name read from |
| | | textbox and the | access the written |
| | | search button is | ton text boxes |
| | | 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. | |
| 2 | Search invalid | When a name that | Text box appears |
| | | does not exists in | alerting the user of |
| | | the database is | the fact the name |
| | | searched the | does not exist in the |
| | | program should | database |
| | | attempt to read this | |
| | | name from the | |
| | | database, recognise | |
| | | that is does not | |
| | | exist and output an | |
| | | appropriate | |

| | | 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 | 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 | Test Data Used | Actual Outcome | Verdic | 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 impleme nt a feature in |
| | | | | future that displays a separate error message under these circumst ances as this lack of data would likely be a miss click or just careless |
| 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 processe s such as brute force. One issue however is that the only requirem ent to bypass this safety check is to restart the program, in future versions |
| | | | | versions I could make it so this is not the |

| | | | | case and only the administr ator 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 passwor d button only available after all attempts have been exhauste d. May cause some users to have to enter details incorrectl y more than necessar y however |
| 9 | N/A Functional test | Login page closed and program stopped running | Pass | Could impleme nt an "are you sure you wish to close" feature in future. |

Insert screenshots here later

Test group one screenshots:



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







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







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



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 | Test data used | Actual outcome | verdict | Comments |
|--------|----------------|----------------|---------|----------|
| number | | | | |

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

2.1-





2.2-





2.3-




2.4-





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 P |
|---------------------------------|
|---------------------------------|

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

3.1-



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 | 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 | 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 'lf' 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

File Project Build Window Help vets program n 🖉 📮 🥗 🔚 🕮 📜 🖳 - 🖻 🖪 🗐 🔊 - 🤇 1 Live Shar Process: [24916] vets program.exe FrmExistingCust ners.vb 👍 🗙 FrmMainMenu.vb [Design] ÷ ¢ - Cre FrmExisti 💠 🕞 🔍 ବ୍ 🏭 🖲 vets pr . × vate Sub sea ds.Clear() Con.Open() Dia T Π Customer Search 45 46 47 48 49 50 51 52 53 55 57 58 59 60 61 62 63 64 = New OleDb .Fill(ds, "C ds.Tables(" , •).Row ory (MB) 【 67 ext = ds.Tables ext = ds.Tables = ds.Tables ext = Search COx = ds.Tables("Cus = ds.Tables(= ds.Tables("Cus Previous Tables nts (0 of 0) MsgBox("No record found") Delete Memory Usage End If Take Snapshot CPU Usage sub is found ← Clear 4 দি 🖸 🚳 🧿 🤡 🖉 17:49 12/04/2023 😅 🛲 🖬 의 📜 🔅 Q Search 0 0 ^ 🙆 🔂 🗟 🏷 🍉 w Tools Extensions Test Analyze Window Help DO. vets program Ø - 🗃 🖀 🗳 -IR Live St • **Pi** of Process: [24916] vets program.exe Thread: [5744] Main Thread ners.vb + × FrmMainMenu.vb [Design] FrmExistingCust **∓** Φ **Content of Content of** - 😪 search 🚓 🕞 🔍 ରୁ 🎧 🕫 vets pi ch() ate Sub se ds.Clear() Diac ds (25.233 s sel 44 Con. 10 🙁 01 5 П× = " & "'" & TxtSe ch.Text & "'" Con Fill(ds, ds.Table System The co ry (MB) • P 4 Dre arch).Ronace iext = ds.raples("Cust ode.Text = ds.Tables(" hum.Text = ds.Tables("Cu 1 100 Show Events (1 of 1) Else IsgBox("No record found") nory Usage Take Snapshot CPU Usage Sub les found 81 % | 🔣 🔻 Ln: 44 Ch: 9 SPC CRLF N Search Depth: 3 🔹 🏴 🌆 Value Type Data OleDh OleDhCo M দি 🛲 L 🔉 📜 💲 Q Search

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

4.4-



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





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-

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The above is the result of the user changing their mind

'ok' pressed-

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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 = ""





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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-

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

4.9-

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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- Lav | ISLET SLOCK | |
|-------------------|-------------|---|
| Test Number | Test data | A |

Test group 5 Lowister steek

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

| 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 |
| 5 1- | 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 |



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-





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-

| File | Edit | t View Git Project Build | Debug Test | Analyze Tools | Extensions Winde | ow Help | Search (Ctrl+Q) | | ہو vets | program | FD — | ٥ | × |
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| | 3 4 | Public Shared selected As Ir | | | | | | | | s | | | |
| | 5 | Dim currentrecord As Integer Dim SearchCurrentRecord As 1 | | | | | | | | | | | |
| | | Dim Con As New OleDb.OleDbCo | To edit stod | levels, select the app | noriate cell and edit sto | ock value then pre | ISS SAVA | | | ess Memory (MB) | \ ▼ : ●P | | ange |
| | 8 | Dim da As New OleDb.OleDbDat | | | | | | | _ | | | | |
| 1 | | 0 references | | LavisterStock | Stock name | Stock Level | GenericStockID | SupplierID | | | | | |
| 1 | 1 🛉 | Private Sub FrmExistingCusto | | 0 | | | | | | | | 0 | |
| 1 | 3 | refreshdata() | | 246 | Cat toy | 3 | | | | (% of all processors) | | | |
| 1 | | 6 references | • | 324 | Dog food | 14 | | | | | | 100 | |
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| 1 | 7 | ds.Clear() | | 965 | Cat food | 89 | | | 1 | | | | |
| 1 | 8 | Con.Open() da = New OleDb.OleDbData | | L123 | Dog Bone | 29 | 123 | | | now Events (0 of 0) | | | |
| 2 | 0 | da.Fill(ds, "Customer") | | L129 | Dog Cage | 10 | 129 | | 1 | ry Usage | | | |
| 2 | | NUMDEROTRECORDS = 05.1at | | L366 | Litter | 16 | 366 | | 1 | ike Snapshot | | | |
| 2 | 3 | selected = ds.Tables("Cu | | L784 | Cat Bed | 4 | 784 | | 1 | sage | | | |
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The above screenshot was taken after leaving the form and re opening in an attempt to prove it retains the info

| VetDatabase | e2 : Database- C:\Use | ers\feefr\Download | ds\vets program | Binary Search (2)\ve | ts program Binary | Search\vets prog | ram Binary Search | n\vets program (cu | Access 2007 - 20 | 16 file format) - | Access - | | |
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| Views C | Clipboard ⊠ | | Sort & Filter | | Records | | Find | | Text Forma | itting | 2 | | ^ |
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| TblStaff | | | | | | | | | | | | | |
| TblSupplier | | | | | | | | | | | | | |
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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-

| 🙀 File Edit View Git Project Build | Debug Test / | Analyze Tools | Extensions Winde | ow Help | earch (Ctrl+Q) | | ہ _{vets} | program | FD — | o × |
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| 📧 vets program | | | | | | | | 🔁 🔍 🔍 👔 | | |
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| 89 Mess | To edit stock | levels, select the appr | opnate cell and edit sto | ck value then pres | s save. | | _ | | | 70 8 |
| 91 Dim | | LavisterStock | Stock name | Stock Level | GenericStockID | SupplierID | | | | |
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| 94 cmd. 95 End If | | 246 | Cat toy | 3 | | | | (% of all processors) | | |
| 96 Else | • | 324 | Dog food | 14 | | | - | and fronts Marrie | | 100 |
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| 102 MessageBox. Show(ex.) | | L129 | Dog Cage | 10 | 129 | | | ry Usage | | |
| 104 Finally 105 con.Close() | | L366 | Litter | 16 | 366 | | | ike Snapshot | | |
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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 | When the form | Pass | N/A |
| | table In access | was loaded | | |
| | form. | each piece of | | |
| | | info was loaded | | |
| | Functional test | into the correct | | |
| | | columns and | | |
| | | rows as | | |
| | | expected. | | |
| 2 | Any value from | As expected | Pass | N/A |
| | stock level | when a cell was | | |
| | column | selected the | | |
| | Functional | user was able | | |
| | valid test | to edit the data | | |
| | | integer value | | |
| | | inside this cell. | | |
| 3 | Functional test | As expected | Pass | N/A |
| | using valid | the data was | | |
| | data, changed | edited and a | | |
| | the value of | text box | | |
| | any value in | appeared | | |
| | stock level | confirming this | | |
| | column | | | |
| 4 | Functional test | As expected, | Pass | N/A |
| | Uses valid data | not only was | | |
| | same as test 3 | 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. | | |
| 5 | Functional test | As expected | Pass | N/A |
| - | | the stock | | - |
| | | option form | | |
| | | was selected | | |
| 6 | Invalid | As expected | Pass | N/A |
| - | Negative | the program | | - |
| | integer | recognised the | | |
| | Specifically '-4' | negative value | | |
| | | as invalid and | | |
| | | output an | | |
| | | appropriate | | |
| | | message box | | |
| | | warning the | | |
| | | user of the | | |
| | | issue | | |
| 7 | Invalid data | As expected | Pass | N/A |
| | Non integer | the program | | |
| | Specifically | recognised the | | |
| | '0.4' | non-integer | | |
| | | value as invalid | | |
| | | and output an | | |
| | | appropriate | | |
| | | message box | | |
| | | warning the | | |
| | | user of the | | |
| | | issue | | |
| 8 | Extreme test | As expected | Pass | N/A |
| | data type | the program | | |
| | Extremely large | recognised the | | |
| | intger, | large value as | | |
| | unrealistic | invalid and | | |
| | Specifically | output an | | |
| | '1000' | appropriate | | |
| | | message box | | |
| | | warning the | | |
| | | user of the | | |
| | | issue | | |
| | 1 | | | |

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.

| VetDatabase2 : Database- C\Users\feefr\Downloads\vets program Binary Search (2)\vets program Binary Search\vets program Binary Se | | | | | | | | | | | | |
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| View Paste | X Cut Copy Format Painter | Filter ² ↓ Asc ² ↓ Des ² √ Ren | cending 7 Selections | vanced * Refres | New Save | ∑ Totals ^{bc} Spelling ∰ More ~ | $ \begin{array}{c} \begin{array}{c} G_{c} \\ \end{array} \\ \begin{array}{c} G_{c} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} G_{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} G_{c} \\ \end{array} \\ \begin{array}{c} G_{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} G_{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} G_{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} G_{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} G_{c} \\ \end{array} \\ $ | Calibri (Detail) B I U | 11 ✓ < < ✓ < ✓ ✓ | | ≣ == >¶ ~ ⊒ ~ == ~ | |
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| UPDATES AV | AILABLE Updates fo | or Office are read | y to be installed, b | ut first we need to | close some apps. | Update now | | | | | | × |
| All ⊙ < | Borras Stock | Stock Name | stock level | - GenericStocl - | SupplierID - | BranchID - | StockID - | Click to Add - | | | | × |
| SearchQ | B123 | Dog bone | 14 | 123 | Suppliend + | 1 | SLOCKID + | CIICK LO Add + | | | | |
| Tables ^ | B129 | Dog cage | 4 | 129 | | 2 | | | | | | |
| Customer | B366 | Litter | 28 | 366 | | 3 | | | | | | |
| TblBooking | B784 | Cat bed | 12 | 784 | | | | | | | | |
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| TblBorrasSt | | | | | | | | | | | | |
| TblBranch | | | | | | | | | | | | |
| TblGenericS | | | | | | | | | | | | |
| TblGHStock | | | | | | | | | | | | |
| Tblitems | | | | | | | | | | | | |
| TblLavisterS | | | | | | | | | | | | |
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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 reopened and the third is to prove the value has actually been written into the database. Pass

6.5-

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| 91 | | B129 | Dog cage | 4 | 129 | | 2 | | | | | | |
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Test 6.5 comments- as shown above the back button works as expected. Pass

6.6-

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| 96 | | | | | | | | _ | | | |
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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

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| 102 | Catch ex A | | | | | | | | | | | | | | | |
| 103 104 | Finally | | | | | | | | | | | | | | | |
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6.7-
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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

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6.8-

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| 101 102 | | B123 | Dog bone | 1000 | 123 | | 1 | | | | 67 | |
| 103 Đ | | B129 | Dog cage | 4 | 129 | | 2 | | _ | | | |
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| 114 | Catch ex A | | | | | ſ | ОК | | | | | |
| 115 | Finally | | | | | | | | | | | |
| 117 | End Try | | | | | | | | | | | |
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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-

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| 103 | ė. | | B129 | Dog cage | 4 | 129 | | 2 | | | | | |
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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-





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





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







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

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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-

| 🙀 File Edit View Git Project | Build Debug Test Analyze Tools | Extensions Window Help Search (Ctrl | +Q) P vets program | × 🗅 – 📵 |
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| 95 E 1+ K | Bookings Calendar | | (and a | e |
| 97 98 End | US M | #cn 2024 | ⊘ | it Ch ₂ |
| 99 E 17 S | | | | ory (MB) 【▼: ●P |
| 101 102 103 E If s | 09:00 | 08:00 | 12:00 | 45 |
| 104 | 11.15 | 19.20 | 15.20 | 0 |
| 106 107 Dim | 11.19 | 10.50 | 13.30 | processors) |
| 108 cmd. 109 cmd. | 17:15 | 12:00 | 17:00 | nts Memory Usage CPU Usage |
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| 81 % • Ø No issues found | | | | |
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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





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 | As expected an | Pass | N/A |
| | was left empty | appropriate | | |
| | nao ion ompty | message box | | |
| | | appeared | | |
| | | warning the | | |
| | | user of the | | |
| | | issue with | | |
| | | instructions for | | |
| | | its correction | | |
| <u> </u> | Eutroma as have | As expected on | Deee | NI/A |
| 0 | Extreme as box | As expected an | Pass | N/A |
| | was left empty | appropriate | | |
| | | message box | | |
| | | appeared | | |
| | | warning the | | |
| | | user of the | | |
| | | issue with | | |
| | | instructions for | | |
| | | its correction | | |
| 7 | Invalid data | As expected an | Pass | A additional |
| | used | appropriate | | presence check |
| | Specifically | message box | | for these two |
| | 2003-2001;09 | appeared | | may have been |
| | | warning the | | beneficial |
| | | user of the | | |
| | | issue with | | |
| | | instructions for | | |
| | | its correction | | |
| 8 | Invalid data | As expected an | Pass | A additional |
| | used | appropriate | | presence check |
| | Specifically | message box | | for these two |
| | 900-00 | appeared | | may have been |
| | | warning the | | beneficial |
| | | user of the | | |
| | | issue with | | |
| | | instructions for | | |
| | | its correction | | |
| 9 | Functional test | As expected as | Pass | Ν/Δ |
| 5 | i unctional test | the program | 1 433 | |
| | | loade it roade | | |
| | | the pro- | | |
| | | determined | | |
| | | brooduros | | |
| | | from the | | |
| | | | | |
| | | autess detebace and | | |
| | | | | |
| | | writes them to | | |
| | | separate rows | | |
| | | | | |
| 10 | | XOQ | | |
| 10 | Functional test | As expected, if | Pass | N/A |
| | with valid data | all the text | | |
| | Data used is | boxes passed | | |
| | the word 'Test' | their respective | | |
| | in each box | validation | | |
| | where that is | checks, the | | |

| | 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 |



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-

| 🙀 File Edit View Git Project Build D | Jebug Test Analyze To | ols Extensions Wir | dow Help Search (C | | P vets program | | |
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| Process: [30256] vets program.exe 🔹 💽 🖬 | | | | | Bookings.MakeSQL 👻 🛓 | | |
| FrmBookings.vb [Design] FrmBookings.vb 🕫 | | nForgot.vb [Design] | | | | | - म × ≌ |
| 📧 vets program 🔹 | ^ | | 0 | | e, e, | նե | |
| 133 134 | | | | | nostics session: 7: | 42 minutes | Expl |
| 135 E If TxtOwnerID.Text = "" T 136 MsgBox("ID must be en | | | | | 7:30min | 7:40min | orer |
| 137 Return 138 End If | Make a booking | a | | | ents | | |
| 139 140 E If TxtEmail.Text = "" The | | 5 | | | | | Chan |
| 141 MsgBox("Email must be | BookingID 36 | 0 | New ID | | cess Memory (MB |) \ \ : •P | ges |
| 142 End If | Owner name Te | st Inac | cse of use of clear button | | | | |
| 144 145 E If TxtDate.Text = "" OrEl: | Animal name Te | st | | | | | |
| 146 MsgBox("Please enter a 147 Return | Owner ID 12 | 3 | | | U (% of all process | lors) | |
| 148 End If | Email Ter | st | | | | | 100 🔻 |
| 150 151 E If TxtTime.Text = "" OrEL: | Booking dates 03 | /03/2025 DD. | /MM/YYY | | mary Events M | emory Usage CPU Usa | ige |
| 152 MsgBox("Please enter a | Booking time 12 | :00 24 | Hour format 00:00 | | its | | |
| 154 End If | Procedure type Su | irgery V | Price estimate £1000 | | Show Events (0 of | 0) | |
| 155 | Additional info Te | st | | | nory Usage | | |
| 157 If txtadditionalInfo.Size | | | | | lake Snapshot | | |
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| Crawb | 0 | BookingI | O - Customer | ID - OwnerName - | AnimalName | BookingDate - | Bookin | ngTime 🕶 Pre | ocedureTy • | AdditionalIn | PriceEst | ✓ GenericStock | StaffID | + Proce | durel[🔺 |
| Search | \mathcal{P} | ± 1 | 420 | Curtis Cox | Patch | 01/01/2024 | 10:00 | nu | il. | null | 0 | | | | |
| Tables | ^ | ± 731 | 123 | Felix Van Dijk | Zebra | 01/01/2024 | 14:00 | nu | ill. | null | null | | | | |
| Custom | er | ± 3 | 566 | Test | null | 01/01/2024 | 09:00 | nu | II. | null | 0 | | | | |
| TblBook | ting | ± 432 | 390 | Luke Bunting | Carrot | 01/01/2024 | 12:00 | nu | 11 | null | 0 | | | | |
| tblBook | ingT | ± 786 | 123 | felix van dijk | zebra | 03/03/2023 | 14:00 | ch | eck up | Test | £50 | | | | |
| ThiBorra | asSt | ± 087 | 420 | Curtis Cox | Patch | 03/03/2024 | 17:00 | nu | il i | null | null | | | | |
| | | ± 245 | 123 | Felix | Zebra | 03/03/2024 | 12:00 | Ch | eck Up | null | £30 | | | | |
| 1blBran | ch | ± 028 | 123 | null | null | 03/03/2024 | 17:15 | nu | 11 | null | null | | | | |
| TblGene | ericS | ± 015 | 123 | Felix Van Dijk | Zebra | 03/03/2024 | 10:00 | He | art Transpl | a Handsome | £20,000 | | | | |
| TblGHSt | tock | ± 749 | 123 | Felix Van Dijk | Zebra | 03/03/2024 | 18:00 | Ch | eck Up | N/A | £30 | | | | |
| Thiltern | | ± 047 | 943 | Sam Rice-Jones | Spud | 03/03/2024 | 13:00 | He | art Transpl | a Grumpy Fath | er £20,000 | | | | |
| | | ± 920 | 123 | null | null | 03/03/2024 | 15:30 | nu | ill. | null | null | | | | |
| TblLavis | iterS_ | ± 089 | 123 | null | null | 03/03/2024 | 18:30 | nu | ill. | null | null | | | | |
| TblLogir | n | ± 201 | 123 | null | null | 03/03/2024 | 11:15 | nu | il. | null | null | | | | |
| TblProc | edur | ± 292 | 123 | null | null | 03/03/2024 | 12:00 | nu | II | null | null | | | | |
| ThiRota | | ± 355 | 123 | felix vd | Null | 03/03/2024 | 08:00 | nu | il. | null | null | | | | |
| | | ± 464 | 123 | Felix van dijk | zebra | 03/03/2024 | 09:00 | Ch | eck up | null | null | | | | |
| 1biStaff | | ± 633 | 123 | Felix Van Dijk | Zebra | 03/03/2024 | 19:00 | Eu | thanasia | This is a test | £1500 | | | | |
| TblSupp | lier | ± 360 | 123 | Test | Test | 03/03/2025 | 12:00 | Su | rgery | Test | £1000 | | | | |
| tblTrans | acti | ± 822 | 123 | Felix Van Dijk | Zebra | 12/03/2024 | 12:00 | Su | rgery | N/A | £1000 | | | | |
| tblVetl o | ocati | ± 742 | 123 | Test | Test | 16/04/2023 | 19:00 | Su | rgery | Test | £1000 | | | | |
| 0.70000 | /000 | * | | | | | | | | | | | | | |
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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-





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 verdic | t comments |
|-----------------------|-----------------------|------------|
|-----------------------|-----------------------|------------|

| 1 | Valid date used | As expected | Pass | N/A |
|---|---------------------------------------|------------------|-------|------------------|
| | Specifically | any past | | |
| | Curtis Cox | bookings tound | | |
| | | under that | | |
| | | displayed in the | | |
| | | below text | | |
| | | boxes starting | | |
| | | with the | | |
| | | earliest or | | |
| | | highest in the | | |
| 2 | Invalid data | table | Pass | Ν/Λ |
| 2 | used | message box | 1 455 | |
| | 'Curtis c0x' | appears | | |
| | | warning the | | |
| | | user of the fact | | |
| | | that name | | |
| | | cannot be | | |
| | | found in the | | |
| • | | database | - | |
| 3 | Extreme data | As expected a | Pass | N/A |
| | usea | message box | | |
| | | warning the | | |
| | | user of the fact | | |
| | | that name. or | | |
| | | the lack | | |
| | | thereof, cannot | | |
| | | be found in the | | |
| | | database | | |
| 4 | Functional test | As expected | Pass | Could have |
| | Valid data | the next record | | included an |
| | | under that | | "end of records" |
| | | the table is | | function similar |
| | | displayed in | | to that the |
| | | place of the old | | previous button |
| | | data in the text | | has |
| | | boxes | | |
| 5 | Functional test | As expected | Pass | N/A |
| | Valid data | the previous | | |
| | | record under | | |
| | | that name | | |
| | | stored in the | | |
| | | displayed in | | |
| | | nlace of the old | | |
| | | data in the text | | |
| | | boxes | | |
| 6 | Functional test | As expected | Pass | N/A |
| | Valid data | when the end | | |
| | | of the results | | |
| | | for that name is | | |
| | | reached a | | |
| | | message box | | |
| 7 | Eurotional tast | All toxt boxes | Pacc | N/A |
| 1 | Functional test | hecame empty | rd55 | IN/A |
| 1 | i i i i i i i i i i i i i i i i i i i | | | 1 |
| 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-



| VetDataba | ase2 : Database- C:\Users' | \feefr\Downloads\\ | vets program Binar | y Search (2)\vets | s program Binary Se | arch\vets prog | am Binary Search\ve | ts program (cu (Ac | cess 2007 - 20 | 16 file format) - Acce | ss - | - • | × |
|----------------|----------------------------|--------------------|-----------------------------------------------------|-----------------------------|---------------------------------|----------------------------------|-----------------------------------|------------------------------------|-------------------|-------------------------------|----------------------|---------------------|----------|
| File Hom | e Create Extern | nal Data Data | base Tools H | elp Table F | ields Table | | ne what you want to | o do | | | | | |
| View Paste | Cut Copy | Filter 2 Remove | ng 🛛 Selection ding 🙀 Advance Sort 🏹 Toggle F | ed ~ Refresh liter All ~ | Rew ∑ Save ⇒ X Delete → | Totals Spelling Fit More ~ | | Calibri (Detail) B I <u>U</u> A | - 11 - ∠ - & - | □ = = = ∞ | >¶ ↓ Ⅲ ↓ | | |
| Views | Clipboard 🗳 | Sort | & Filter | | Records | | Find | | Text Forma | tting | 12 | | ^ |
| 1 9 . C | - ⊛ → ⇒ | | | | | | | | | | | | |
| All ⊙ < | TblBooking × | | | | | | | | | | | | × |
| Search (| BookingID | CustomerID • | OwnerName - | AnimalName | BookingDate | BookingTime | ProcedureTy - | AdditionalIn • | PriceEst | GenericStocl | StaffID | + Procedur | relE 🔺 |
| seurch_ | · 301 | 420 | Curtis Cox | patch | 01/01/2024 | 11:00 | Birth | skives school o | £75 | | | | |
| Tables | ± 109 | 345 | Willaim Chantr | octopus | 01/01/2024 | 15:00 | Soul Transplan | master coder | £1,000,000 | | | | |
| Customer | ± 993 | 390 | Luke Bunting | Carrot | 01/01/2024 | 18:00 | Soul Transplan | fake dad LOL | £1,000,000 | | | | |
| TblBooking | * 1 | 420 | Curtis Cox | Patch | 01/01/2024 | 10:00 | null | null | 0 | | | | |
| tblBookingT | ± 731 | 123 | Felix Van Dijk | Zebra | 01/01/2024 | 14:00 | null | null | null | | | | |
| Thillowranger | ± 3 | 566 | Test | null | 01/01/2024 | 09:00 | null | null | 0 | | | | |
| TOBOTTASSC | ± 432 | 390 | Luke Bunting | Carrot | 01/01/2024 | 12:00 | null | null | 0 | | | | |
| TblBranch | ± 786 | 123 | felix van dijk | zebra | 03/03/2023 | 14:00 | check up | Test | £50 | | | | |
| TblGenericS. | ± 087 | 420 | Curtis Cox | Patch | 03/03/2024 | 17:00 | null | null | null | | | | |
| TblGHStock | ± 245 | 123 | Felix | Zebra | 03/03/2024 | 12:00 | Check Up | null | £30 | | | | |
| Thiltener | ± 028 | 123 | null | null | 03/03/2024 | 17:15 | null | null | null | | | | |
| Toiltems | ± 015 | 123 | Felix Van Dijk | Zebra | 03/03/2024 | 10:00 | Heart Transpla | Handsome | £20,000 | | | | - |
| TblLavisterS. | ± 749 | 123 | Felix Van Dijk | Zebra | 03/03/2024 | 18:00 | Check Up | N/A | £30 | | | | |
| TblLogin | ± 047 | 943 | Sam Rice-Jones | Spud | 03/03/2024 | 13:00 | Heart Transpla | Grumpy Father | £20,000 | | | | |
| TblProcedur. | ± 920 | 123 | null | null | 03/03/2024 | 15:30 | null | null | null | | | | |
| Thilberto | ± 089 | 123 | null | null | 03/03/2024 | 18:30 | null | null | null | | | | |
| TUROta | ± 201 | 123 | null | null | 03/03/2024 | 11:15 | null | null | null | | | | |
| TblStaff | ± 292 | 123 | null | null | 03/03/2024 | 12:00 | null | null | null | | | | |
| TblSupplier | ± 355 | 123 | felix vd | Null | 03/03/2024 | 08:00 | null | null | null | | | | |
| tblTransacti | + 464 | 123 | Felix van dijk | zebra | 03/03/2024 | 09:00 | Check up | null | null | | | | |
| th/lati acati | ± 633 | 123 | Felix Van Diik | Zebra | 03/03/2024 | 19:00 | Euthanasia | This is a test | £1500 | | | | |
| upivercocau. | ± 360 | 123 | Test | Test | 03/03/2025 | 12:00 | Surgery | Test | £1000 | | | | |
| | ± 822 | 123 | Felix Van Diik | Zebra | 12/03/2024 | 12:00 | Surgery | N/A | £1000 | | | | |
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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



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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

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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-



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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-

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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

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9.7-

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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

| image File Edit View Git Project Build Debug Test Image: Image Image: Image Image: Im | Analyze Tools Extensions W Continue - 🎸 - | Vindow Help Search (Ctrl+Q) ■ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ | 👂 vets program | 🤨 – ロ × 风気気 <u>。</u> ich Live Share 🔊 |
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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.





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 number | Test data | Actual | verdict | comments |
|-------------|----------------------|-----------------|---------|--------------|
| | | outcome | | |
| 1 | Functional | All text boxes | Pass | N/A |
| | Clear pressed | became void | | |
| | | of any data | | |
| 2 | Valid data | If all presence | Pass | N/A |
| | Functional | checks were | | |
| | Save pressed | passed and | | |
| | | the data is | | |
| | | deemed valid | | |
| | | the program | | |
| | | read the info | | |
| | | in the text | | |
| | | boxes and | | |
| | | wrote it into | | |
| | | the | | |
| | | appropriate | | |
| | | table | | |
| 3 | Functional | Current form | Pass | N/A |
| | Back button pressed | closed and | | |
| | | main menu | | |
| - | | form appeared | | |
| 4 | Functional | If any text | Pass | N/A |
| | Extreme data in all | boxes were | | |
| | text boxes | left blank the | | |
| | | program | | |
| | | would output | | |
| | | a message | | |
| | | box with a | | |
| | | warning and | | |
| | | not save the | | |
| - | Freedland | | Deee | |
| 5 | | If a new | Pass | |
| | Invalid pre existing | customer | | function |
| | 123 specifically | somenow nad | | where before |
| | | the same id as | | generating a |
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| 6 | Invalid data | If the email | Pass | N/A |
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| | | a messaye | | |
| | | annear and | | |
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Test group 10- Add customer form:

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

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-







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-



| VetDatabase2 : Database- C:\Users\feefr\Downloads\vets program Binary Search (2)\vets program Binary Search\vets program Binary Search\vets program (cu (Access 2007 - 2016 file format) - Access - 0 × | | | | | | | | | | | | |
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| Search O | CustomerID | · FirstName | surname | • Email • | Animal | • Address • | Postcode | | Click to Add + | | | |
| seurch | · 003 | Teegan | Jones | Tjones@hotma | Blossom | 17 by the chur | CHH HHH | 07927383906 | | | | |
| Tables | ± 033 | Rhys | Rogers | RhysJ@googler p | arrot | 8 hendy road | CH6 JK9 | 08637930183 | | | | |
| Customer | ± 058 | Dylan | Cox | dcox@gmail.co | lephant | 64 Zoo Lane | 6464ZL | 01723456789 | | | | |
| TblBooking | + 123 | Felix | Van Dijk | felixvd@gmail. Z | ebra | 64 Zoo Lane | ZL64 | 1234565432 | | | | |
| tblBookingT | + 234 | Matthew | Williams | Mwilliams@grr k | loala | Koala Lane | KL12 | 01723456788 | | | | |
| ThiPorrarCt | ± 345 | William | Chantrey | Will.i.am@gma | Aouse | Quiet Lane | SSH87 | 01723456780 | | | | |
| TOBOTIASSC | ± 390 | Luke | Bunting | Bunt@gothmai d | arrot | 39 oogle rd | CH9 OLD | 07915263780 | | | | |
| TblBranch | ± 420 | Curtis | Cox | RustyReeBot@p | atch | The Av | ch7 av1 | 07446916076 | | | | |
| TblGenericS | ± 566 | Luke | Unsworth | lukesrocketleas (| heetah | Rocket Lane | RL12 L98 | 01723456999 | | | | |
| TblGHStock | ± 628 | Ruben | van Dijk | RvanDijjk@gmaZ | odie | 19 alexandra r | c Ch7 1hj | 07563084369 | | | | |
| Thiltener | ± 666 | Andrew | Greenow | AndyG@Gmail.S | unshine Jr | alun school | ch7 1hl | 0796473282 | | | | |
| Tomens | ± 868 | Test | Test | Test@gmail.colT | est | Test | Test | Test | | | | |
| TblLavisterS_ | + 924 | Will Chant | Legend | will@legend.co.co | octopus | 29 coding hill | CH2 J90 | 07956171809 | | | | |
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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

| File Edit | View Git Project Build Debug | Test Analyze Tools | Extensions Windo | w Help Search | | Q | vets program | | |
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| 10 | Dim currentrecord As Integer = 0 | | | | | î. | Diagnostics session: 2:47 | minutes | sol the second s |
| 12 | Dim Ds As New DataSet | | | | | | 2.4011 | E. | <u> </u> |
| 13 14 | Dim Da As New OleDb.OleDbDataAdapter | | | | | | ✓ Events | | |
| 15 🖻 | 0 references Private Sub FrmAddCustomer_Load(sender | As Object, e As Event/ | Args) Handles MyBase. | _oad | | | II A Des sous Marson (MAR) | 1 🔽: 🛋 n | han |
| 16 | Con.ConnectionString = "Provider= | licrosoft.ACE.OleDb.12.0 |); Data Source =" & A | oplication.Startup | Path & "\VetDatabase: | 2.accdb" | 64 | | 64 ^e |
| 18 | | | | | | | | | |
| 19 20 | Dim rand As New Random() Dim bookingId As Integer = rand.Ne | ext(100, 1000) | | | | - U. | | | |
| 21 | | | | | | - U. | ✓ CPU (% of all processor | s) | |
| 23 | <pre>TxtID.Text = bookingId.ToString()</pre> | | | | | | 100 | | 100 |
| 25 🖉 | TxtID.ReadOnly = False | | | | | | Summary Events Mer | nory Usage CPU | Usage |
| 26 27 | End Sub | | | | | | Events | | |
| 28 🗉 | 0 references Private Sub TxtmainMenu_Click(sender / | s Object, e As EventArg | gs) Handles TxtmainMe | u.Click | | | Show Events (0 of 0) | | |
| 29 30 | Me.Hide() FromMainMenu.Show() | | | | | | Memory Usage | | |
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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-

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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







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-



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Rea

Q Search



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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 |







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-



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| 100 🗄 | Private Sub FrmHolidayReq_Load(sender As Obje | c | | | e e |
| 101 | TxtName.Text = "" | Sec. | | ✓ Events | |
| 102 | TxtEDate.Text = "" | Search | | | |
| 103 | TxtBranchID.Text = "" | | | | a |
| 104 | IxtReason.lext = "" | | | Process Memory (MB) | ja |
| 105 | TytSDate.Text = "" | | | 66 | 66 5 |
| 107 | End Sub | | | | |
| 108 | | | | | |
| | | Staff ID 473 | | 0 | |
| 109 | Private Sub BtnClear_Click(sender As Object, | e | | | , v |
| 110 | TytEDate Text = "" | Name Sandra Shells | | CPU (% of all processors | , , |
| 112 | TxtBranchID.Text = "" | | Previous | 100 | 100 |
| 113 | TxtReason.Text = "" | | | Summary Events Mem | ory Usage CPU Usage |
| 114 | <pre>txtRole.Text = ""</pre> | Role Head vet/owner | | - Events | A |
| 115 | TxtSDate.Text = "" | | | | |
| 116 | TxtEmail.Text = "" | Contact Number 50000700 | Next | Show Events (0 of 0) | |
| 117 | End Sub | | | Memory Usage | |
| | | Address 19 shell mad | | Take Snapshot | |
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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 | As expected | Pass | N/A |
| | Form loaded | when the form | | |
| | | was loaded a | | |
| | | random three | | |
| | | integer number | | |
| | | was written into | | |
| | | the correct text | | |
| | | box | _ | |
| 2 | Functional test | As expected | Pass | N/A |
| | Form load | when the form | | |
| | | loads the staff | | |
| | | ID text box is | | |
| | | set to read only | | |
| 3 | Invalid data | As expected if | Pass | Possible non- |
| | Specifically | a phone | | European |
| | '999' | number is | | customers who |
| | | entered that | | are only over |
| | | does not | | for a month or |
| | | adhere to the | | so may be left |
| | | format of a | | out. Unlikely |
| | | European | | however |
| | | number, the | | |
| | | format check in | | |
| | | the code will | | |
|---|-----------------|------------------|------|-----|
| | | not allow this | | |
| | | to be displayed | | |
| | | and output a | | |
| | | message box | | |
| 4 | Functional test | As expected | Pass | N/A |
| | Form loaded | the info from | | |
| | Info in access | the roles table | | |
| | database used | was read and | | |
| | | written into the | | |
| | | combo box on | | |
| | | form load | | |
| 5 | Functional test | As expected | Pass | N/A |
| | Form loaded | the info from | | |
| | Info in access | branch ID | | |
| | database used | appeared in the | | |
| | | combo box | | |
| 6 | Functional | Program read | Pass | N/A |
| | Save button | all data in the | | |
| | pressed | text boxes and | | |
| | Valid test data | given that it | | |
| | | was valid, | | |
| | | wrote the data | | |
| | | to a new line in | | |
| | | the correct | | |
| | | table in the | | |
| | | database | | |
| 7 | Functional test | If any text | Pass | N/A |
| | Extreme data | boxes were left | | |
| | | blank the | | |
| | | program | | |
| | | outputted a | | |
| | | message box | | |
| | | saying which | | |
| | | and did not | | |
| | | allow the data | | |
| | | to be saved | _ | |
| 8 | Functional | All text boxes | Pass | N/A |
| | Clear button | were made | | |
| | | empty | | |
| 9 | Functional | Current form | Pass | N/A |
| | Back button | closed and | | |
| | | staff option | | |
| | | form opened | | |

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-



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| 75 76 77 78 79 80 81 82 83 83 83 83 83 84 85 85 87 | End If If String.ISMullOrEmpty(TxtAnimal.Text) Then MsgBox("Please enter animal name") <u>Kut Sub</u> End If If String.ISMullOrEmpty(TxtFirstHame.Text) Th MsgBox("Please enter first name") End If If String.ISMullOrEmpty(TxtFirstHame.Text) The End If | Add Staff Safi D 208 |] | | Diagnostics session: 2:52 n | ninutes 2:50min ↓ ♥: ●P | Explorer Git Changes |
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| L, a neady | | | | | Add to Source Control A | B Select Repository | 19:23 |
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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-

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

13.6-



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| Customer | ± 4564 | rtyrty | rtyrtyr | rtyfg | rhfg | eeryrt | Owner/Vet | B1 | | | | | |
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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











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-

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

13.9-

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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 | In the event a | Pass | N/A |
| | 'Sandra Sheils' | 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 | Davas | |
| 2 | Invalid data | In the event an | Pass | N/A |
| | 's4anora | Invalid name | | |
| | SHEIIS | was entered a | | |
| | | message box | | |
| | | appeareu | | |
| | | record found' | | |
| 3 | Extreme data | In the event an | Pass | Maybe a |
| | Text box empty | invalid name | 1 433 | distinguishing |
| | i on oon chipty | or empty in this | | text box would |
| | | case, was | | be preferable |
| | | entered a | | 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-

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| 83 MsgBox("Please enter first name") 84 Exit Sub | | | 73 | 73 " |
| 85 End I f 86 | Staff ID 669 | - H. | | |
| 87 E If String.IsNullOrEmpty(TxtSurname.Text) 88 MsgBox("Please enter Surname") | | | 0 ⊿ CPU (% of all processors) | 0 |
| 89 90 End If | Name Millie Humble Pre- | vious | | 100 👻 |
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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.

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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

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| 100 El : If Not TxtEmail.Text.Contains("8") Or 81% ▼ Ø No issues found Ø ▼ ◀ | Postcode ch1 8eg | C CRLF | CPU Usage 🗸 🗸 |
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| Autos Locals Watch 1 | Call Stack Breakpoints Comr | mand Window Immediate | Window Output Error List |
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| Process: [23876] vets program.exe • 🕞 Lifecycle Events * T | 🚆 frmstaffsearch — 🗆 🗙 | | | |
| FrmAddCustomer.vb 🕫 🗙 FrmHistory.vb FrmHistory.vb [Des | | 🗢 🏟 Diag | | ▲ ☆ × 등 |
| 📧 vets program 🔹 🏀 TxtSave | Staff Search | • ÷ ☆ | | tion |
| 75 End If 76 | | Ê Dia | ignostics session: 23:22 minutes | Explo |
| 77 E If String.IsNullOrEmpty(TxtAnimal.Text) Th | | . II. | 23:10min 23:20min | orer |
| 79 Exit Sub | Search Search | ■ [▲] E | vents | |
| 80 End 14 81 | | | I | han |
| 82 E If String.IsNullOrEmpty(TxtFirstName.Text) 83 MsgBox("Please enter first name") | | 7 | 4 | 74 |
| 84 85 End If | | | | |
| 86 87 If String, IsNullOrEmpty(TxtSurname, Text) T | Staff ID 473 | | 0 | |
| 88 MsgBox("Please enter Surname") | | ⊿ c | PU (% of all processors) | |
| 90 End If | Name Sandra Sheils vets program X Previous | 10 | | 100 |
| 91 92 Dim regex As New Regex("^(\+444\s?\d{10} (\ | Role Head yet/ow No record found | Su | mmary Events Memory Usage CPU | Usage |
| 93 E If Not regex.IsMatch(TxtPhoneNum.Text) The 94 MsgBox("Please enter a valid European | Next | Eve | ents | |
| 95 Exit Sub 96 End If | Contact Number 56886 | | Show Events (0 of 0) | |
| 97 | | Me | emory Usage | |
| 99 E If Not String.IsNullCEmpty(TxtEmail.Text) | Address 19 shell road | | Take Snapshot | |
| 81 % • Ø No issues found | Postcode ch18eq | CRLF | U Usage | |
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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-

| 🕅 File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Search (Ctrl+Q) | 👂 vets program 😰 — 🗗 🗙 |
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| 🖓 Process: [23876] vets program.exe 🔹 🐨 🗊 Ulegyde Events * T 🚔 frmstaffsearch — 🗆 🗙 | imAddCustomer.MakeSQI 👻 💂 |
| FrmAddCustomer.vb + × FrmHistory.vb FrmHistory.vb [Des | 〒 ✿ Diagnostic Tools |
| TxtSave Staff Search | • ÷ ☆ ⊕ @, @, ≧ ▲ this |
| 75 End If | Diagnostics session: 26:05 minutes |
| 77 E If String.IsNullOrEmpty(TxtAnimal.Text) Th | 25:50min 26:00min |
| 79 Exit Sub | ⊿ Events |
| 80 End 17 81 | |
| 82 If String.IsMultOrEmpty(itt)irstName.lext) 83 MsgBox("Please enter first name") | 74 74 74 |
| 84 85 End If | |
| 86 87 E If String.IsNullOrEmpty(TxtSurname.Text) T Staff ID 353 | 0 0 |
| 88 MsgBox("Please enter Surname") 89 Exit Sub | → ✓ CPU (% of all processors) |
| 99 End If Previous | 100 100 Summary Events Memory Usage CPULUsage |
| 92 Dim regex As New Regex (**(\+44\s?\d{10})(\ 92 Dim tegex Is New Regex (**(\+44\s?\d{10})(\ 93 Dim tegex Is New Regex (**(\+44\s?\d{10})(\ 94 Dim tegex Is New Regex (**(\+44))(*)(A Dim tegex)(**(\+44))(*)(A Dim tegex)(**(\+44))(*)(A Dim tegex)(**(\+44))(*)(**((A Dim tegex)(**((A Dim tegex)(** | Events |
| 93 H Not reget internet (iternet a valid European | Show Events (0 of 0) |
| 96 End If | Memory Usage |
| 97 98 'Validation for Email field Address dodg | 🖾 Take Snapshot |
| 99 ⊟ If Not String.IsNullOrEmpty(TxtEmail.Text) 198 ⊟ If Not TxtEmail.Text.Contains("0") Or | CPU Usage |
| 81 % • O No issues found Of • O O O O O O O O O O O O O O O O O | c crlf |
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| Name Value Branch ID 81 | |
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| Autos Locals Watch 1 Call Stack Breakpoints Command Window | V Immediate Window Output Error List |
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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-



| File Edit View Git Project Build Debug Test | Analyze Tools Extensions Window Help Search (Ctrl+Q) | 🔎 vets program 📧 — 🗗 🗙 |
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| 🍈 🕒 🔹 😁 🔛 🗐 🦻 🗘 🖓 🗸 🖓 🗸 🖓 🗸 🖓 🗸 🖉 🔹 Any Cl | U ▶ Continue - 🍊 - 📷 🕽 _ 🤅 🖬 🛑 (5 → 🐇 🚓 ↑ 🖉 | - 😻 🔚 🏥 📜 📜 🖓 🖓 🚆 🖻 Live Share 🔊 |
| Process: [23876] vets program.exe 🔹 🗊 Lifecycle Events 🔹 | 📲 frmstaffsearch — 🗆 🗙 | mAddCustomer.MakeSQI 👻 💂 |
| Free Add Contamonate in M. Free Ulicton (1) Free Ulicton (1) | | |
| Wets program | Staff Search | |
| 75 End If | | Diagnostics session: 28:01 minutes |
| 76 77 E If String.IsNullOrEmpty(TxtAnimal.Text) | Th | 27:50min 28:0 |
| 78 MsgBox("Please enter animal name") 79 Exit Sub | Search Search | ⊿ Events କ୍ର |
| 80 End If 81 | | |
| 82 If String.IsNullOrEmpty(TxtFirstName.Tex 83 MsgBox("Please enter first name") | -) | 74 Process Memory (MB) V: P 74 |
| 84 85 End If | | |
| 86 87 E If String.IsNullOrEmpty(TxtSurname.Text) | T Staff ID 4564 | 0 |
| 88 MsgBox("Please enter Surname") 89 Exit Sub | Name duty | ← ∠ CPU (% of all processors) |
| 90 End If 91 | Previous | Summary Events Memory Usage CPU Usage |
| 92 Dim regex As New Regex("^(\+44\s?\d{10} 93 E If Not regex.IsMatch(TxtPhoneNum.Text) T | Role Owner/Vet | Events |
| 94 MsgBox("Please enter a valid Europea 95 Exit Sub | Contact Number +/- | ∞ Show Events (0 of 0) |
| 96 End If 97 | | Memory Usage |
| 98 ' Validation for Email field 99 II If Not String, IsNullOrEmpty(TxtEmail.Tex | Address #fg | Take Snapshot |
| 100 El If Not TxtEmail.Text.Contains(*0*) 0 81% ▼ ◎ No issues found ♂▼ ◀ | Postoodo ant | CPU Usage |
| Autos | | • 4 × |
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| Name Value | 200 | |
| | Branch ID B1 | |
| | | |
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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-

| 対 File Edit View Git Project Build Debug Test | Analyze Tools Extensions Window Help Search (Ctr | (l+Q) | vets program 😰 — | o × |
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| 🏽 🕒 🔹 😁 🛛 😁 😁 🔛 🗐 🛛 🎔 🗸 🖓 🗸 🖓 🗸 🖉 🔹 🗛 Any Cl | U E Continue - 🌈 - 📑 🔚 _ 🖁 🔲 💻 (5 | → ½ @ î <u>æ</u> ੂ∛ ⊕ ! | 🖢 🌆 📜 📜 🔲 🖓 🚆 🕜 Live | Share 🔊 |
| Process: [23876] vets program.exe | 🖳 frmstaffsearch — | · 🗆 🗙 rmAddCusti | omer.MakeSQI 👻 💂 | |
| FrmAddCustomer.vb 4 X FrmHistory.vb FrmHistory.vb [D] | staff Search | ∓ ¢ | Diagnostic Tools | Solutio |
| 75 End If 76 | | Ċ. | Diagnostics session: 28:53 minutes | n Explor |
| 77 E 1 String IsmullOrtmpty()ttAnimal.lext) 78 MsgBox("Please enter animal name") 79 Exit Sub 80 End If | Search Search | | ✓ Events | er Git Char |
| 82 If String.IsNullOrEmpty(TxtFirstName.Tex 83 MsgBox("Please enter first name") 84 Exit Sub 85 End If | | | A Process Memory (MB) | 74 ^{iges} |
| 86 87 E If String. IsNullOrEmpty(TxtSurname.Text) McsBar("Diasa artas Supara") | T Staff ID 58589 | | | |
| 89 90 End If | Name Bob Jones | Previous | △ CPU (% of all processors) | 100 👻 |
| 91 92 93 Dim regex As New Regex("^(\+44\s?\d{18} 93 Dif Not regex.IsMatch(TxtPhoneNum.Text) T | Role Head Vet | | Summary Events Memory Usage CPU U | sage |
| 94 95 96 End If 96 End If | Contact Number 01234567898 | Next | Show Events (0 of 0) | |
| 97 98 ' Validation for Email field | Address 64 Zoo Lane | | Memory Usage | |
| 99 bi i t Not String.isNuLlurempty(ixtemail.iew 188 bi i I f Not TytEmail.Text.Contains(*0*) 0 81% • Ø No issues found Ø ◆ | Postcode 64ZL 64L | C CRLF | CPU Usage | |
| | | | | - ₽ × |
| Search (Ctrl+E) ${\cal P} \ {\ \ } \ {\ \ } \ {\ \ } \ {\ \ }$ Search Depth: 3 | DOB 01/01/1990 | | | <u> </u> |
| | Branch ID B1 | | | |
| | Back Clear | | | |
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| Process: [23720] vets program.exe 🔹 🗊 Lifecycle Events 🔹 | 🖳 frmstaffsearch | — 🗆 🗙 _{IM} A | AddCustomer.MakeSQI 👻 🖕 | |
| functoffeaarch.ub. a. X. franctaffeaarch.ub [Darign] | c. | | = A Discussific Table | |
| wets program | Staff Search | | | t t Autio |
| 136 SQLconnection.Con.Close() | | | Diagnostics session: 11 second | ds PEXP |
| 137 138 currentrecord = 0 | | | 1 | 0s |
| 139 140 refreshdata() | Search Search | | ✓ Events | |
| 141 End Sub | | | | Chan |
| 0 references 143 E Private Sub Button4_Click(sender As Object, | | | ✓ Process Memory (MB) | •: ●P 67 |
| 144 Me.Close() 145 FrmStaffOpt.Show() | | | | , i i i i i i i i i i i i i i i i i i i |
| 146 End Sub | Staff ID | | — • "ſ | 0 |
| 0 references 148 Private Sub Button5_Click(sender As Object, | Namo | | ■ ∠ CPU (% of all processors) | |
| 149 TxtSearch.Text = "" 159 Txtaddress.Text = "" | Name | Previous | 100 Summany Events Memory | |
| 151 TxtBranchID.Text = "" | Role | | Events | |
| 153 TxtName.Text = "" | | Next | Show Events (0 of 0) | |
| 155 TxtPostcode.Text = "" | Contact Number | | Memory Usage | |
| 157 TxtStaffID.Text = "" | Address | | Take Snapshot | |
| 159 End Sub | | | CPU Usage | |
| | Postcode | | | - 1 × |
| Search (Ctrl+F) | DOD | | | A 1 4 |
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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-

| | | | | 0 | | | _ |
|-----------------|--------------------------------------------------|--------------------------------------|----------------------------|--------------|------------------------------------|--------------------|----------|
| File Edit | t View Git Project Build Debug Test | Analyze Tools Extensions Window Help | Search (Ctrl+Q) | مر | vets program | - 0 | |
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| Process: [237 | 20] vets program.exe 🔹 😨 Lifecycle Events 🔹 | 🖳 frmstaffsearch | - 0 × , | | | | |
| frmstaffsearch. | vb → × frmstaffsearch.vb [Design] FrmAddC | | | ÷ 👳 | Diagnostic Tools | - ų > | < Soli |
| 📧 vets program | - 😪 BtnClear | Staff Search | | - ÷ | 🔅 🕞 🔍 🔍 🔒 | | ▲ tion |
| 136 | SQLconnection.Con.Close() | | | | Diagnostics session: 1:06 minut | es | Expl |
| 137 138 | currentrecord = 0 | | | . 8 | 1:00mi | n | |
| 139 140 | refreshdata() | Search Search | | | ✓ Events | | |
| 141 | End Sub | Jealuh | | | | | Cha |
| 142 | 0 references | | | | A Process Memory (MB) | ': ●P | nges |
| 143 E 144 | Me.Close() | | | | 68 | 68 | |
| 145 146 | FrmStaffOpt.Show() End Sub | Staff ID 472 | | - 12 | | | |
| 147 | | | | | 0 | 0 | |
| 148 🗗 | Private Sub Button5_Click(sender As Object, e | Name Sandra Sheils | | - 13 | ▲ CPU (% of all processors) 100 | 100 | |
| 149 150 | TxtSearch.Text = "" Txtaddress.Text = "" | | Previous | 11 | Summary Events Memory U | sage CPU Usage | |
| 151 152 | TxtBranchID.Text = "" TxtDOB.Text = "" | Role Head vet/owner | | | Events | <u> </u> | A |
| 153 | TxtName.Text = "" | | Next | - 11 | Show Events (0 of 0) | | |
| 154 155 | TxtPostcode.Text = "" | Contact Number 56886786 | | - 1 1 | Memony Heare | | |
| 156 157 | TxtRole.Text = "" TxtStaffID.Text = "" | Address 10 datast | | | The Course at | | |
| 158 | End Cub | Address Is shell road | | | | | |
| 81 % 👻 🥑 | No issues found 💞 🔹 📢 | Postcode ch18eq | c | | CPU Usage | | |
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| Name | | 200 | | | | | |
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| | Q Search | 📮 🗘 🖸 🗘 🖬 | 🛯 😳 😍 🖬 📢 | 4 | 📒 🔺 🙆 🥃 👳 🕻 | (19.52) | Ê |



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 fo | rm: |
|------|-------|-----|-----------|-------------|-----|
|------|-------|-----|-----------|-------------|-----|

| 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 | Pass | N/A |
| | | the program | | |
| | | recognised | | |
| | | the lack of | | |
| | | data, output a | | |
| | | message box | | |
| | | and didn't | | |
| | | send the | | |
| | | email | | |
| 4 | Valid data used | As expected | Pass | N/A |
| | Username: 123 | the program | | |
| | | attempted to | | |
| | Felixvandijkk@gmail.com | send an email | | |
| | | and of course | | |
| | | falled as I | | |
| | | have not paid | | |
| | | for an smtp. | | |
| | | Instead a | | |
| | | message box | | |
| | | appeared | | |
| | | showing what | | |
| | | | | |
| | | | | |
| | | along with an | | |
| | | aiony with an | | |
| | | explanation of | | |
| | | work | | |
| 5 | Valid data used | As expected | Pass | N/A |
| 5 | Username [,] 123 | the program | 1 033 | |
| | | and program | | |
| | Fmail | attempted to | | |
| | Email: Felixvandiikk@gmail.com | attempted to send a follow | | |
| | Email: Felixvandijkk@gmail.com | attempted to send a follow up email and | | |
| | Email: Felixvandijkk@gmail.com | attempted to send a follow up email and of course | | |
| | Email: Felixvandijkk@gmail.com | attempted to send a follow up email and of course failed as I | | |
| | Email: Felixvandijkk@gmail.com | attempted to send a follow up email and of course failed as I have not paid | | |
| | Email: Felixvandijkk@gmail.com | attempted to send a follow up email and of course failed as I have not paid for an smtp. | | |
| | Email: Felixvandijkk@gmail.com | attempted to send a follow up email and of course failed as I have not paid for an smtp. Instead a | | |
| | Email: Felixvandijkk@gmail.com | attempted to send a follow up email and of course failed as I have not paid for an smtp. Instead a message box | | |
| | Email: Felixvandijkk@gmail.com | attempted to send a follow up email and of course failed as I have not paid for an smtp. Instead a message box appeared | | |
| | Email: Felixvandijkk@gmail.com | 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 | | |
| | Email: Felixvandijkk@gmail.com | 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 | | |
| | Email: Felixvandijkk@gmail.com | 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 | | |
| | Email: Felixvandijkk@gmail.com | 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 | | |
| | Email: Felixvandijkk@gmail.com | 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 | | |
| | Email: Felixvandijkk@gmail.com | 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 | | |
| | Email: Felixvandijkk@gmail.com | 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 | | |
| | Email: Felixvandijkk@gmail.com | 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 | | |
| 6 | Email: Felixvandijkk@gmail.com | 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 As expected | Pass | N/A |
| 6 | Email: Felixvandijkk@gmail.com | 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 | Email: Felixvandijkk@gmail.com | 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 As expected when valid data was | Pass | N/A |
| 6 | Email: Felixvandijkk@gmail.com | 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 As expected when valid data was entered and | Pass | N/A |
| 6 | Email: Felixvandijkk@gmail.com Functional test Re send pressed Valid data entered Username: 123 Email: | 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 As expected when valid data was entered and the re send | Pass | N/A |
| 6 | Email: Felixvandijkk@gmail.com Functional test Re send pressed Valid data entered Username: 123 Email: Felixvandijkk@gmail.com | 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 As expected when valid data was entered and the re send button was | Pass | N/A |
| 6 | Email: Felixvandijkk@gmail.com Functional test Re send pressed Valid data entered Username: 123 Email: Felixvandijkk@gmail.com | 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 As expected when valid data was entered and the re send button was pressed a | Pass | N/A |
| 6 | Email: Felixvandijkk@gmail.com Functional test Re send pressed Valid data entered Username: 123 Email: Felixvandijkk@gmail.com | 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 As expected when valid data was entered and the re send button was pressed a timer | Pass | N/A |

| | | counting down from 60 which indicates when you can attempt to send the email again | | |
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| 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 snamming | Pass | N/A |
| 8 | Functional test Back Button pressed | Current form closed and main menu login form opened. | Pass | N/A |

15.1-

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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

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15.2-

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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-

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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- | |
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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

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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

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15.6-





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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

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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.