**TEST PLAN**

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|  | Purpose | Test Data | Expected Result |
| 1 | Test Update button,  Update the existing record | Input value to existing record->Click Update Button-> check the database & the form to see that the changes have happened and are reflecting on both.  Vehicle Reg No-BV557UTR  Make-Skoda  Engine Size-1.2  Date Registered-12/01/2009  Rental Per day-£78.00  Available-Yes | Updated changes should be reflected in the form and in the database. |
| 2 | Test Add button | Input new record details  ->Click the Add button  ->Check database if new record has been added  Vehicle Reg No-BF667UTY  Make-Kia  Engine Size-1.2l  Date Registered-12/06/2009  Rental Per day-£88.00  Available-Yes | Check if new record is added to the database and also shows on the form. |
| 3 | Test Delete button | Select the record to be deleted from the form.  ->Click Delete Button  ->Check the database and the form if the record is deleted | The record must be deleted from the database and also from the form. |
| 4 | Test Search button | Click Search Button  Check that a second form opens and the current form hides. | It should open the second form and display all the records on the database. |
| 5 | Test Cancel button | Click Cancel Button  Check that any changes made to the current record is not updated.  Vehicle Reg No-BV557UTR  Make-Mercedes  Engine Size-1.2  Date Registered-12/01/2009  Rental Per day-£78.00  Available-Yes | It should cancel all the changes made to the current record.  Make value should remain “Skoda” |
| 6 | Test Exit Button | Click Exit Button  Check that it allows to exit the application | It allows to exit the application. |
| 7 | Test Run button | Select the required fields->Click Run  The data that matches the criteria should be displayed.  Field: Available  Operator : =  Value : Yes | It displays all the records that match the selected criteria. |
| 8 | Test Close button | Click Close Button  Check if the frmSearch hides. | It should hide the current form frmSearch and return to the form frmCars. |
| 9 | Test Run button | No/Some fields selected  ->Click Run  Check that it gives an error  Fieild: Make  Operator :  Value : | Search will Run only if data exists in all three query criteria controls i.e Field, Operator and Value. |
| 10 | Test Engine Size input | Check if Engine size is updated with “L” at the end of the updated record in the database.  Vehicle Reg No-BV557UTR  Make-Skoda  Engine Size-1.2l  Date Registered-12/01/2009  Rental Per day-£78.00  Available-Yes | The engine size should be saved as 1.2L in the database |
| 11 | Test for Make field | Check if only “=” operator is displayed for Make field.  Field:Make  Operator: =  Value:Yes | Make field when selected should only give “=” operator option |
| 12 | Test Value field | Click Run button  Check if it will return the search if value is entered as YES/Yes/yes  Select Field->Available  Operator-> =  Value-> yes | Should return all the records matching the said criteria. |
| 13 | Test Add Button | Input an existing vehicle number with its details  Click Add button  Should return an error  Vehicle Reg No-BV557UTR  Make-Skoda  Engine Size-1.2l  Date Registered-12/01/2009  Rental Per day-£78.00  Available-Yes | An error should pop up as you cannot add a record with existing registration number. |

**TEST LOG**

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| --- | --- | --- | --- |
| Test | Date | Actual Output | Comments/Discrepancies |
| 1 | 04.04.2022 | Details of selected record was updated in the form and the database. | No discrepancies |
| 2 | 04.04.2022 | A new record was created and added to the form and the database | No discrepancies |
| 3 | 04.04.2022 | The selected record is deleted from the form and the database. | No discrepancies |
| 4 | 04.04.2022 | A second form frmSearch opens up displaying all the records in the database and hides the current from frmCars | No discrepancies |
| 5 | 04.04.2022 | All changes made to the current record is cancelled. | No discrepancies |
| 6 | 04.04.2022 | Exit button closes the application | No discrepancies |
| 7 | 04.04.2022 | Displays all the cars that are available for hire. | No discrepancies |
| 8 | 04.04.2022 | It hides the frmSearch form and shows the frmCars again. | No discrepancies |
| 9 | 04.04.2022 | An error message pops up “Select the fields” | No discrepancies |
| 10 | 04.04.2022 | Engine size is saved with “L” at the end in the database | No discrepancies |
| 11 | 04.04.2022 | Only “=” option is available when field Make is selected | No discrepancies |
| 12 | 04.04.2022 | Displays all the cars that are available for hire. | No discrepancies |
| 13 | 04.04.2022 | An error message “Registration Number already exists in the table. Or error during adding” pops up. | No discrepancies |

EVIDENCE OF TEST

1. Testing Update Button

Graphical user interface

Description automatically generated

1. Testing Add Button

Graphical user interface, application

Description automatically generated

1. Testing Delete button

Graphical user interface, application

Description automatically generated

1. Testing Search button

Table

Description automatically generated

1. Testing Cancel Button

Graphical user interface

Description automatically generated

1. Testing Exit button

Graphical user interface

Description automatically generated

1. Testing Run Button

Table

Description automatically generated

Technical document

* The relationship connection between the form was created/ generated by the use Visual Studio and MS SQL database.

<HIRE>

con = “Data Source=LIBERTIES90\SQLEXPRESS;Initial Catalog=HIRE;Integrated Security=True"/>

</HIRE>

* The purpose of creating the connection string is to connect to the database. User can manage records of the car hire company: see existing data, update and delete existing data, add new data, search among existing records (according to specified parameters).