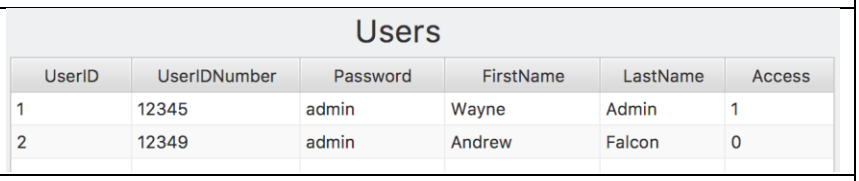
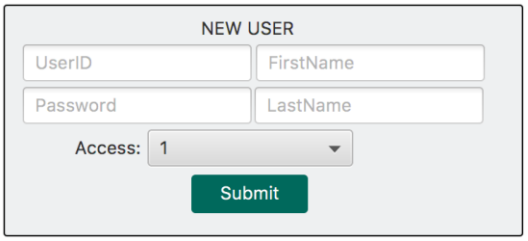
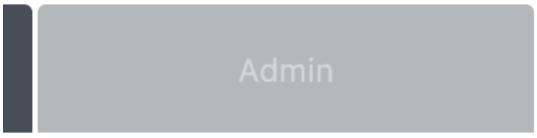
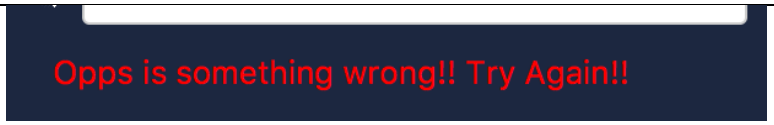
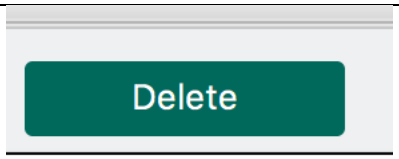
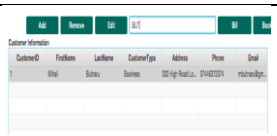
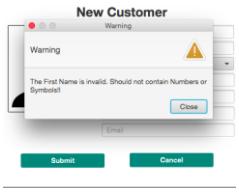
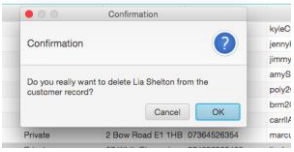
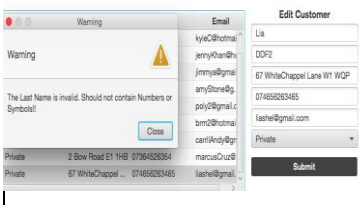
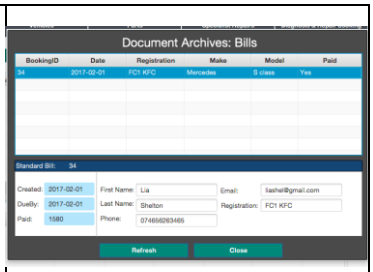
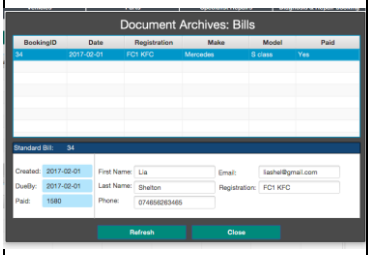
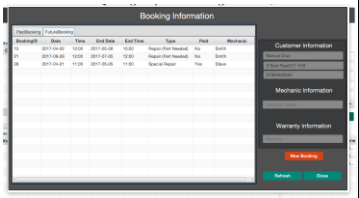
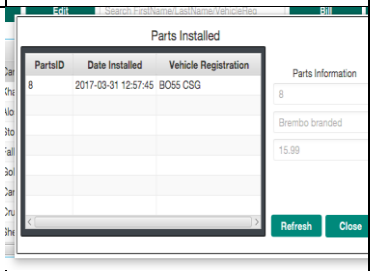
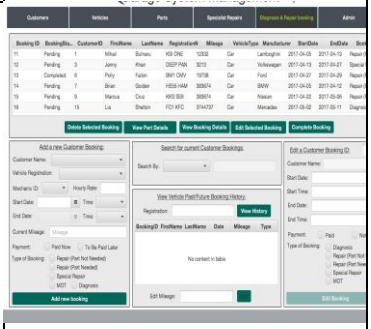
Test Cases for Authentication Module:

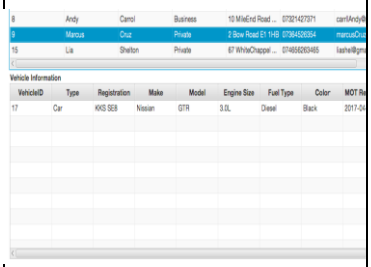
Test Number:	Test Case Description:	Pass/Fail?	Actual Result
1.	Logon as existing system administrator – provide id and password.	Pass	Logon Successful and opens application.
2.	View list of existing users (all users of both types).	Pass	
3.	Change password of existing day-to-day user.	Pass	Password changed in database and new password active from new logon session.
4.	Create a new day-to-day user.	Pass	
5.	Logout existing administrator.	Pass	Application logged out and sent back to log in screen
6.	Login as the new day-to-day user.	Pass	New session activated but admin table disabled. 
7.	Logout as new day-today user.	Pass	Application logged out and sent back to log in screen
8.	Attempt login as new day-to-day user with incorrect authentication.	Pass	
9.	Logon as existing system administrator.	Pass	Logon Successful and opens application.
10.	Delete newly created day-to-day user.	Pass	

11.	Login as existing day-to-day user.	Pass	Logon Successful and opens application.

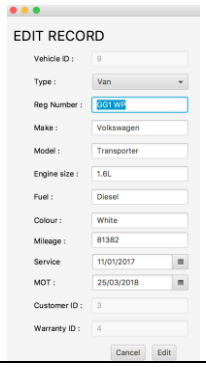
Test Cases for Customer Accounts Module:

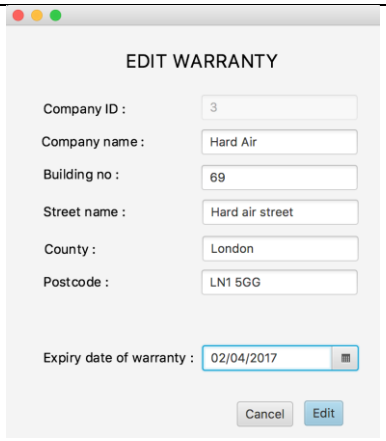
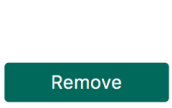
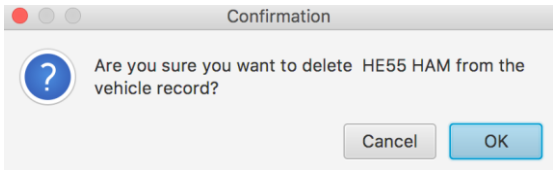
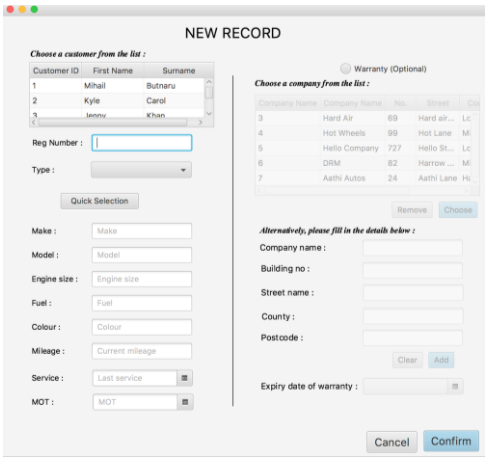
TestNumber	What I am checking	Expected Result	Pass/Fail	Actual Result	Picture
1	Search for a business/private customer using partial name and show contact details and list of vehicles. **(Test Data: BUTN)**	Should display the information based on what the user searched for.	Pass	The tableview displays the right information based on the user's search.	
2	Adding a customer to the system. Text Field Validations. **(Test Data FirstName: BUTN1RU)**	The system should allow the user to enter a customer and for every field there's a validation based on the entered data.	Pass	Clicking on the add button the system allow to enter a customer and the validation is working.	
3	Delete a customer from the system **(Test Data: ANDREW)**	Clicking the delete button the system should ask the user if agrees to delete the selected customer.	Pass	Clicking the button, the customer is deleted from the system and all the records related to the customer are deleted.	
4	Edit a customer **(Test DATA: ANDREW)**	Clicking the edit button the system should allow the user to edit a customer.	Pass	The system allows the user to edit the selected customer.	

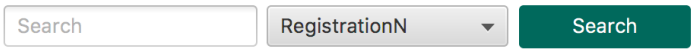
5	For an existing customer show bills for past-completed bookings and show settlement status. **(Test DATA: MIHAIL)**	Selecting a customer and clicking the bill button the expected result should display the past booking with the total cost of the booking.	Fail	Clicking the button the system allows the user to see the past bookings but the bill doesn't show the calculations.	
6	For an existing customer show bills for past-completed bookings and show settlement status. **(Test DATA: MIHAIL)**	Selecting a customer and clicking the bill button, the expected result should display the past booking with the total cost of the booking.	Pass	Clicking the button the system allows the user to see the past bookings and the bill shows the correct calculations.	
7	If the past and future booking it displays based on the selected customer. **(Test DATA: MIHAIL)**	Selecting a customer and clicking the button booking, the past and future booking should be displayed based on the selection.	Pass	When I select the customer and clicking on the button the system displayed the past and future booking on the selected customer.	
8	If the parts installed is working on the selected vehicle. **(Test DATA: BMW)**	Selecting a vehicle and clicking the parts button should display the parts installed on the selected vehicle.	Pass	When I select a vehicle it displays the correct parts installed on that vehicle.	
9	For an existing customer initiate a new booking. **(Test DATA: MIHAIL)**	Selecting a customer and clicking the booking button the user should be able to initiate a new booking.	Pass	When I select a customer and clicking the booking button I can click new booking to initiate a new booking.	

10	For an existing customer initiate access to a vehicle record. **(Test DATA: MIHAIL)**	Selecting a customer the user will have all the records on the vehicle.	**Pass**	When I select a customer, in a table view bellow I can see the vehicle records about that customer.	

Test Cases for Vehicle Record Module:

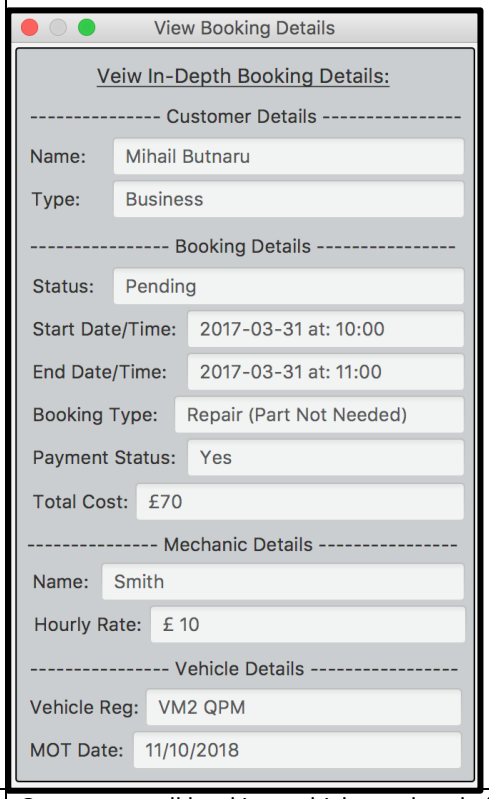
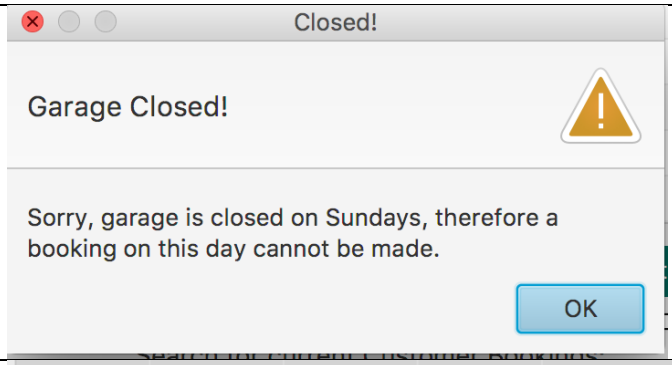
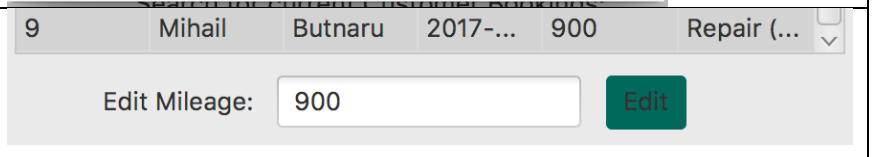
Test No.	Test Case	PASS/FAIL	Result
1.	Search for vehicles by type (car, truck, van)	PASS	The user must select 'VehicleType' from the search category drop down menu and type the vehicle type they like to look and the press the 'search' button. This will filter and display the data in the table.
2.	Select vehicle and show parts used, past and future booking dates, and the total cost per booking (warranty and non-warranty).	PASS	The user can select a record from the vehicle table and choose a tab to view appropriate data about the selected vehicle. I have created 'Customer details', 'Parts', 'Bookings' and 'Warranty' tabs which shows the respective data.
3.	Search for vehicles by manufacturer.	PASS	The user must select 'Make' from the search category drop down menu and type the vehicle make they like to look and the press the 'search' button. This will filter and display the data in the table.
4.	Select vehicle and show details.	PASS	All vehicle details which are stored in the database is shown in the vehicle table inside the vehicle record module.
5.	Edit an existing vehicle record.	PASS	The user must select the record that they like to edit and then click on 'Edit' button to make changes on the selected record. Once they press button a pop-up opens with selected record values pre-filled in it. Then the user can make changes they want to make and click on 'edit' to save the changes and click on 'cancel' to discard changes. 

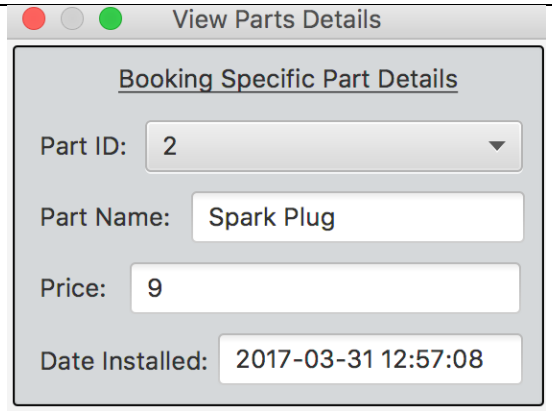
6.	Edit the warranty details of a vehicle under warranty.	PASS	The user must select a record which has a warranty and then press the 'Edit warranty' to edit the warranty company details. Once they press that button a pop-up opens with selected record values pre-filled in it. Then the user can make the changes they want to make and click on 'edit' to save those changes and click on 'cancel' to discard the changes and leave the warranty company details as it is. 
7.	Delete a vehicle record.	PASS	The user can select the record they wish to remove and press the 'Remove' button. Then an alert box pop-up for user confirmation and if the press 'Ok', it will remove the record and if they press 'Cancel', this will leave the record in the table.  
8.	Create a new vehicle record.	PASS	To create a new vehicle record, the user should press the 'Add' button and a pop-up opens. The user must fill in the mandatory fields about the vehicle either manually or they can choose a popular vehicle from the quick selection table. Then can access quick selection by pressing the 'Quick selection' button and once the pop-up opens, user can select their vehicle details from popular vehicles. Once they have selected their vehicle from quick selection and press on 'Ok' it will automatically fill in the vehicle details in the 'Add' pop up. Once the user has finished filling in the form they can press 'Confirm' to create the new record and press 'Cancel' to terminate the process. 

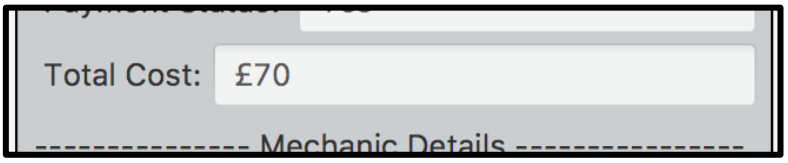
9.	Logout, close application and log back in. Show created record is persistently stored.	PASS	The user can either press the 'logout' button, which will take them back to log in screen or press the 'exit' button which will close the program. Any successful changes the user made while using the program will be saved on the database and be reflected in the program.
10.	Search for vehicles by Registration number plate.	PASS	The user must select 'RegistrationN' from the search category drop down menu and type the vehicle registration plate number they like to look and the press the 'search' button. This will filter and display the data in the table. 

Test Cases for Diagnosis & Repair Module:

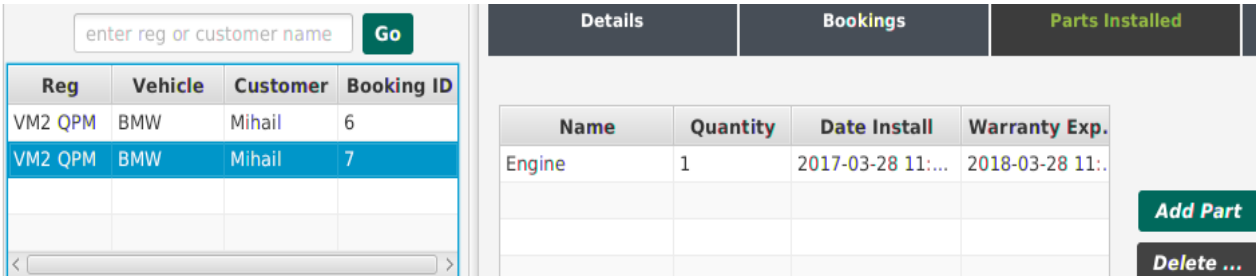
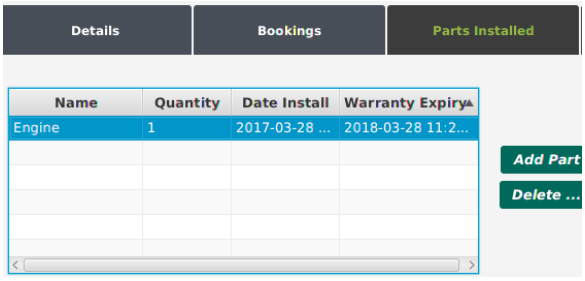
Test Number:	**Test Case Description:**	**Pass/Fail?**	**Actual Result**
1.	View existing "diagnosis and repair" bookings.	Pass	Main TableView displays all bookings from today onwards which are existing and future bookings only.
2.	Search for a booking by partial vehicle registration number	Pass	Only the bookings with the number plate are displayed in the table. When a search quote is input after the "Partial/Full Vehicle Registration" ComboBox option, all the valid rows with the partial registration number to show in the table ***Input: VM2***
3.	Search for a booking by vehicle Manufacturer.	Pass	Only the bookings with the correct manufacturer are displayed in the table. When a search quote is input after the "Vehicle Manufacturer" ComboBox option, all rows with the valid vehicle Manufacturer to show in the table. ***Input: Range***
4.	Search for a booking by customer surname.	Pass	When a surname is entered, only the bookings under that surname appear in the table. When a search quote is input after the "Customer Surname" ComboBox options, all rows with the valid surnames to show in the table. ***Input: Abdelhay***

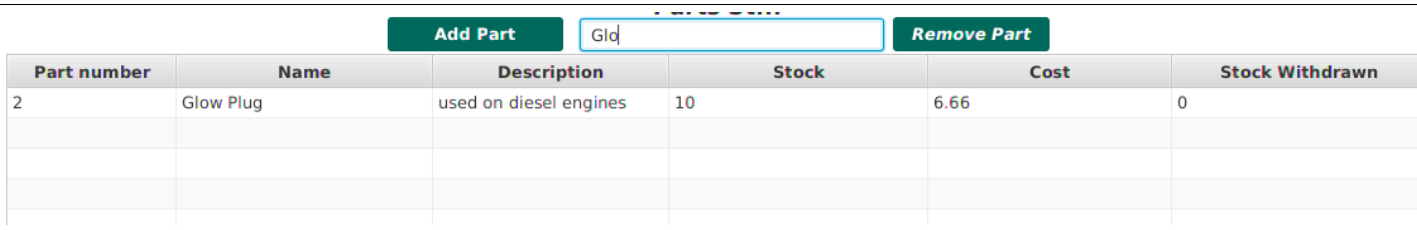
5.	Select a “diagnosis and repair” booking and view details.	Pass	When a part is a selected, and the “View booking details” button is clicked, the following pop-up is produced; 
6.	View list of future bookings.	Pass	On start-up, all bookings which are dated after todays date will show in the main table. This is a list of all future bookings and cannot be in the past.
7.	View list of past bookings.	Pass	The History table shows all bookings past and future based on vehicle registration which is entered in a search box.
8.	Attempt to make a booking outside of working hours or work day.	Pass	
9.	Edit the mileage of a vehicle associated with a past booking.	Pass	
10.	Create a new “diagnosis and repair” booking.	Pass	Once all the relevant data is selected and input, then a “success message” will be output and the data will be added to the database and be refreshed into the main table.

11.	Logout, close application and log back in. Show created record is persistently stored.	Pass	All data that is added to the database is persistently stored and should be available to view on log on.
12.	View part details for a repair that is complete.	Pass	
13.	Attempt to create a booking with a start date that is before the end date	Pass	If a start date is selected, then all dates before that date must be disabled and any dates 2 weeks from that start date must be disabled too.
14.	Attempt to create a booking on the same day where the end time is before the start time	Pass	If the start date and the end date are on the same day, then the booking must last at-least 1 hour, and an end time cannot be on or before the start time. If these rules are violated, an error message will display.
15.	Create a booking with a repair that is longer than 2 years.	Pass	The start date date-picker will cap selection to a maximum of 1 year from today's date.
16.	Attempt to create a booking with invalid entries/missing data.	Pass	If any data is missing or anything is left unselected, an error will be displayed and the creation of the booking will be halted until entries are successful.
17.	Delete a booking.	Pass	If a booking a selected, and the "Delete" button is selected then the booking will be deleted from the database and reflected in the table.
18.	Complete a booking.	Pass	If a pending booking is selected and the "complete booking" button is selected then the status of the booking will change from "pending" to "completed"

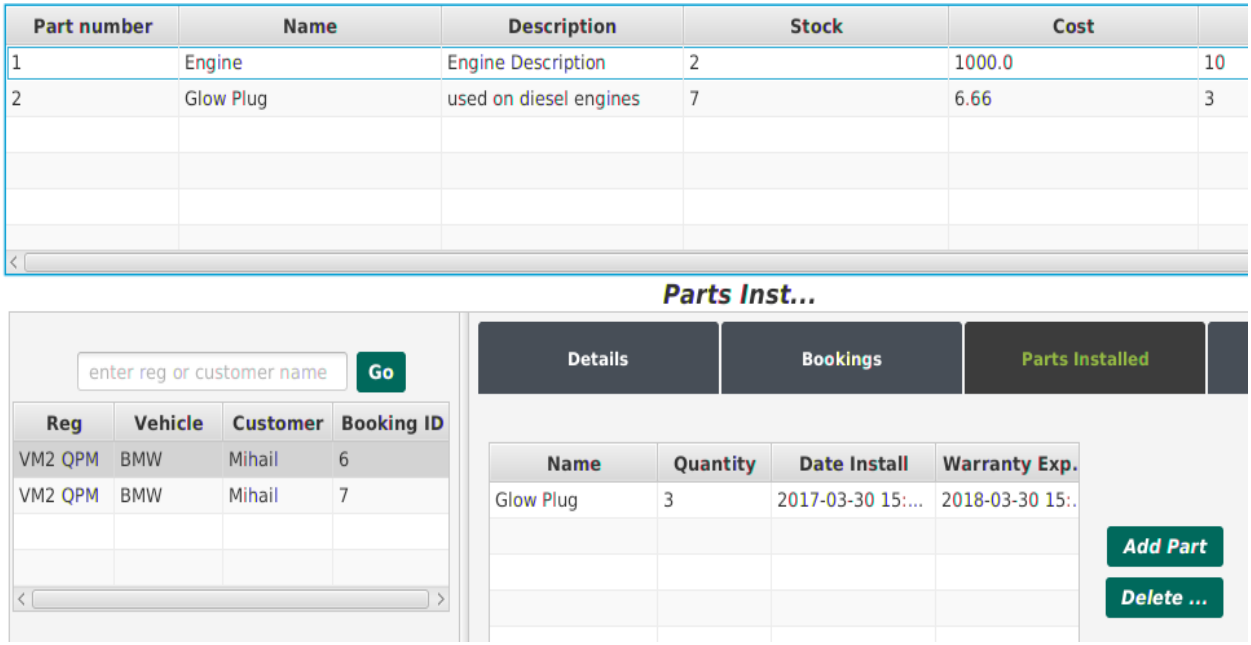
19.	Edit a booking with valid data.	Pass	When a booking is selected and the edit button is selected, then all the booking details are displayed in the relevant formats, and then when edited correctly, the information will be updated to the database and reflected in the table.
20.	Attempt to edit a booking with invalid data or missing data.	Pass	When a booking is selected and the edit button is selected, then all the booking details are displayed in the relevant formats. If invalid data is entered or missing data is, the edit process will not proceed and an error message will be displayed.
21.	Create a booking, and generate a cost for that booking.	Pass	

Test Cases for Parts Module:

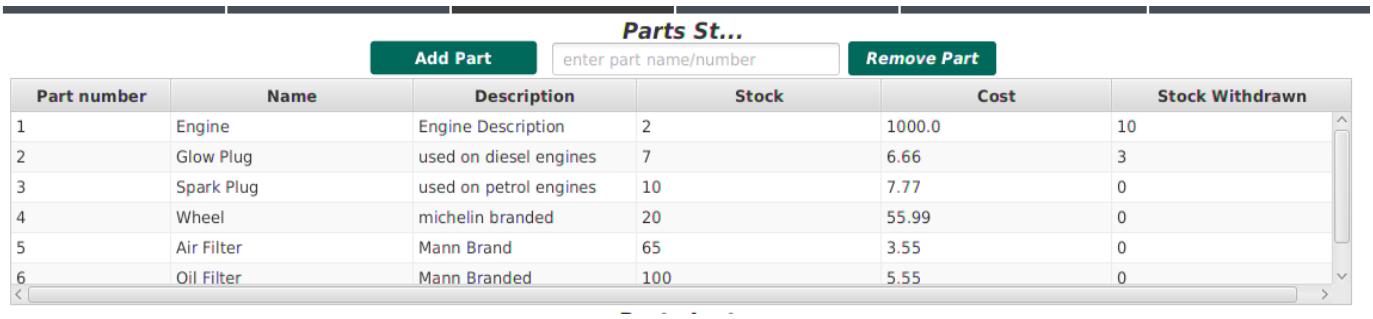
Test#	Description	Expected Outcome	Pass/Fail
1	View list of parts used on selected vehicle under an existing “diagnosis and repair” booking.	Display vehicles in the search by reg table and when clicked it should display parts installed.	Pass
			
2	Select a part used and list details.	Part installed name,quantity,date installed and warranty expiry should display in “Parts Installed” tab in the table when a vehicle is selected.	Pass
			
3	Search for a part to add to a vehicle by name.	When starting to type a part name in the search box, results should start to be shown as it is auto search, no button click required.	Pass



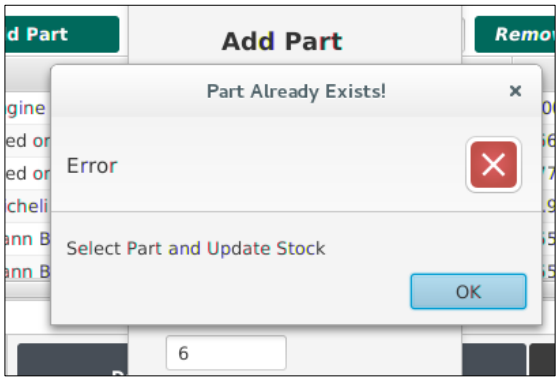
4	Add a part to a repair of the selected vehicle. Show that stock level reduced.	After adding a part to selected car stock should automatically decrease in parts stock table depending on the quantity entered for selected install part. User can select part ID from a Combobox that shows part ID if it exists in PartsStock table and stock of part remaining is greater than 0.	Pass

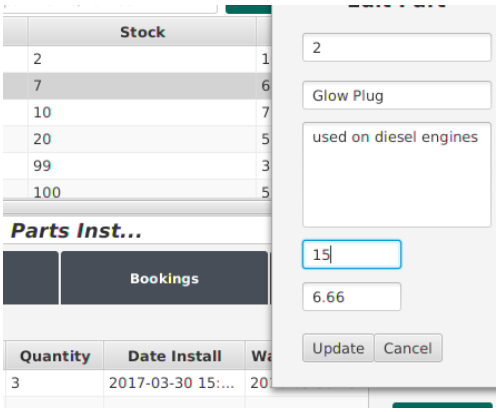


5	View current stock list.	Parts stock table should populate data	Pass

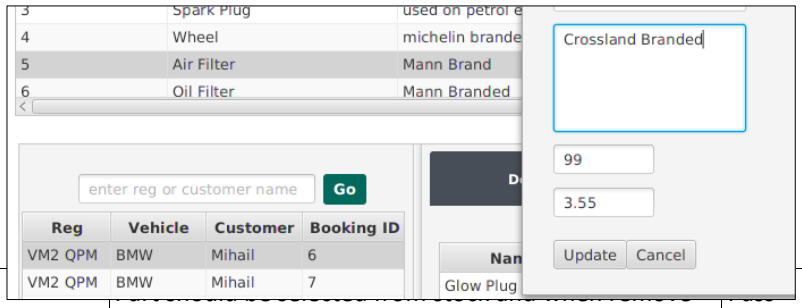


6	Add new stock item. Show stock of part increased.	When adding a part that already exists user should be notified of this and then simply just update the stock.	Pass

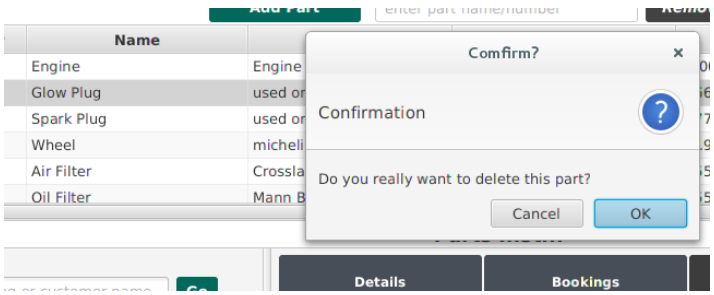


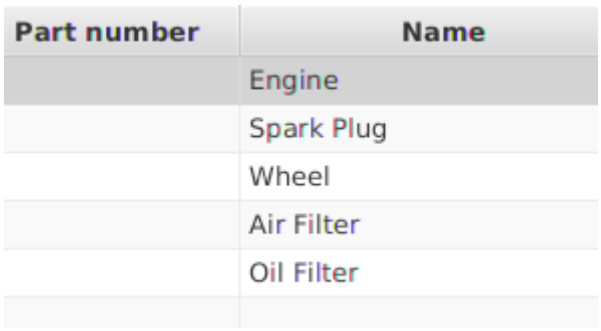


7	Edit the record for a stock item.	When a part is clicked an edit pop-up should be shown, user can then enter details and update.	Pass

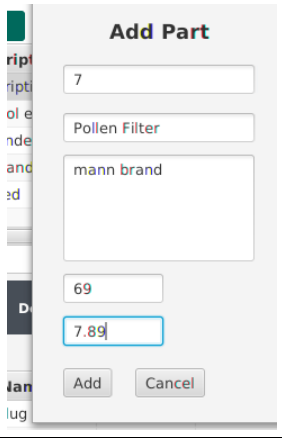


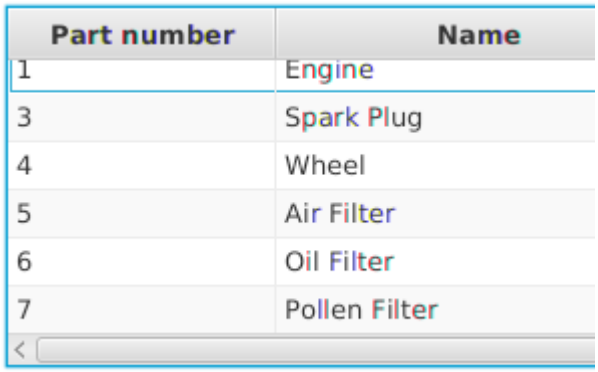
8	Delete a stock item	is selected a confirmation should be shown then part should be removed.	



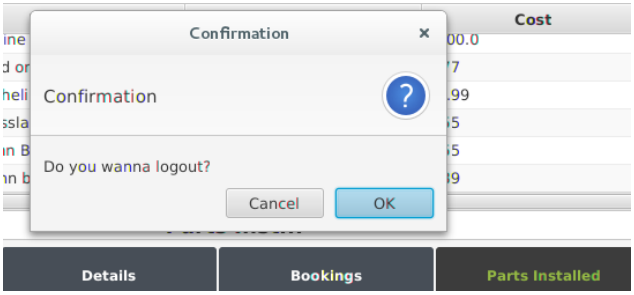


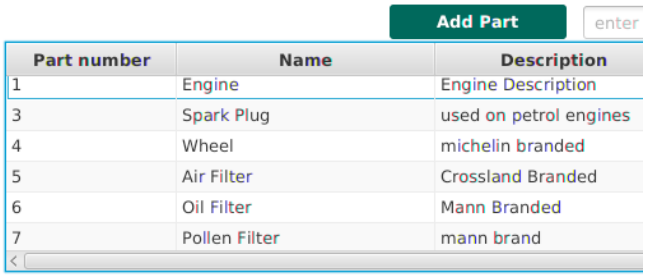
9	Create a new part in the stock list and add items.	After clicking “Add Part” button and entering relevant details, the new part should display in parts stock table.	Pass



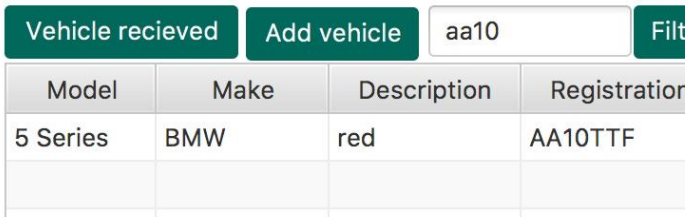
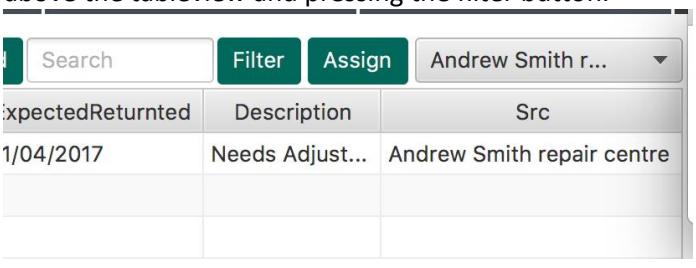


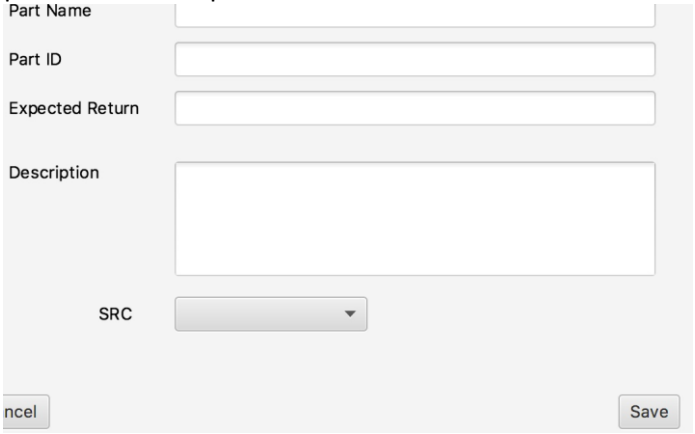
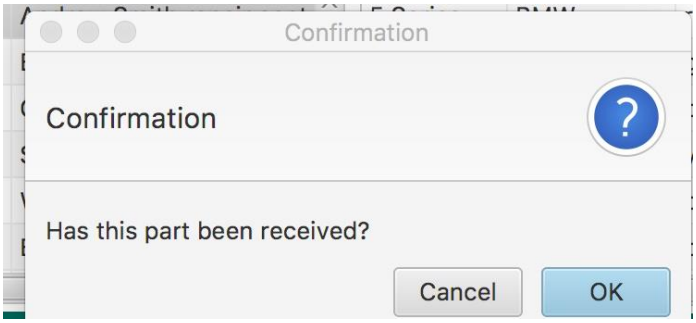
10	Logout,close application and log back in. Show created record is persistently stored.	Logout button should go back to log in screen when clicked and when user logs back in any previously entered/changed data should still be there.	Pass

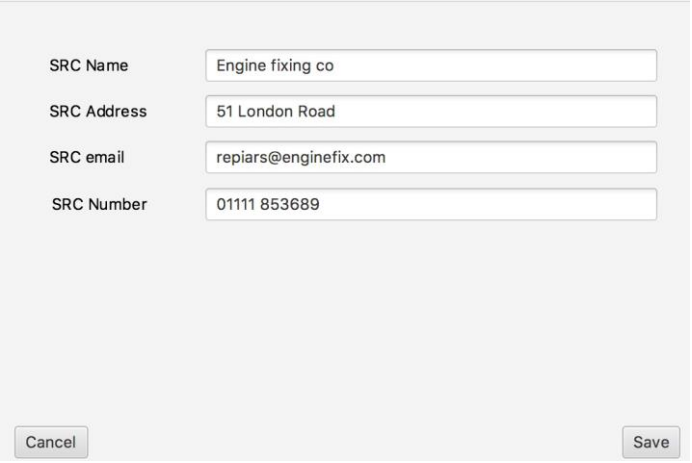
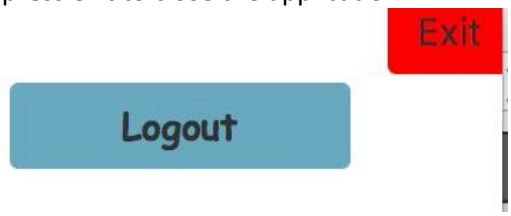
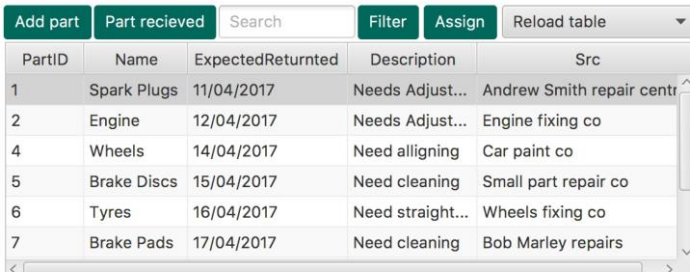




Test Cases for Special Repair Module:

Test Number:	Test Case Description:	Pass /Fail ?	Actual Result
1.	View existing Specialist Repair Centres (SPCs).	Pass	Tableview displays the SPC information stored in database
2.	Search for a vehicle at a selected SPC by partial registration number.	Pass	Outstanding vehicles has a tableview and a textfield to search. Can be search using partial reg: 
3.	View list of parts at selected SPC.	Pass	Parts can be filtered by src just selected the SRC in the combobox above the tableview and pressing the filter button. 

4.	Select part from this list and view details.	Pass	Part details are other columns in the tableview. 1 Spark Plugs 11/04/2017 Needs Adjust... Andrew Smith repair centr 2 Engine 12/04/2017 Needs Adjust... Engine fixing co 3 Steering ... 13/04/2017 Needs recalib... Wheels fixing co 4 Wheels 14/04/2017 Need aligning Car paint co 5 Brake Discs 15/04/2017 Need cleaning Small part repair co 6 Tyres 16/04/2017 Need straight... Wheels fixing co
5.	Add a part to be sent to a SPC and record details.	Pass	Add part button opens a new window, that asks for details of the part. Saves the inputs to the database.  Part Name Part ID Expected Return Description SRC ncel Save
6.	View list of returned items from SPC.	Pass	There are received parts and vehicle tables, once a part/vehicle has been received its details are saved in the database and displayed on the tableview.
7.	Delete a part sent to an SPC	Pass	To delete a part, the part must be received. User must select part and click the part received button. A confirm prompt appear to confirm the deletion.  Confirmation Confirmation Has this part been received? Cancel OK

8.	Edit details for an existing SPC	Pass	User selects the src to edit and presses the edit SRC button. New window opens with data prompts and existing details of the src. 
9.	Logout, close application and log back in. Show edited record is persistently stored and accurate	Pass	All data is saved in the database, any changes they made in the system i=will remain. The user can either press logout to go to the login screen or press exit to close the application. 
10	View list outstanding parts at all srcs	Pass	There is a parts tableview that as standard shows all outstanding parts. This tableview can be filtered down to specific SPCs.