ECS506U Software Engineering

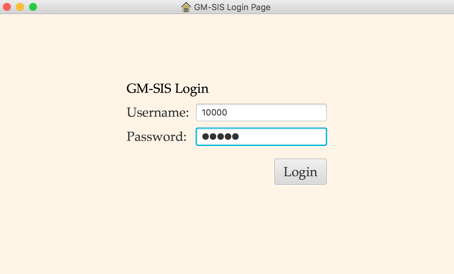
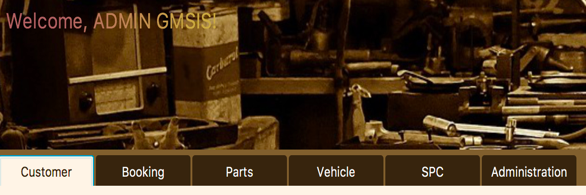
Group Project 2017

**Team 9**

**Test Cases**

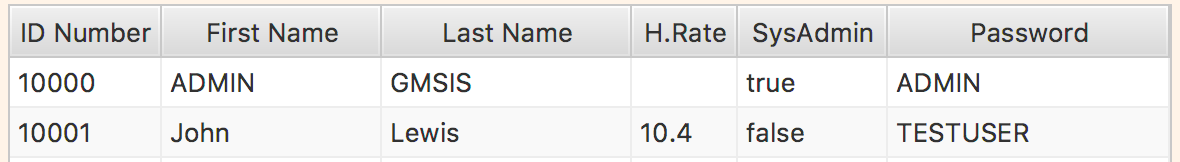
**Authentication**

Admin Details – Username: 10000, Password: ADMIN, First name: ADMIN, Last name: GMSIS

1.  Logon as existing system administrator – provide id and password. **RESULT: PASS**

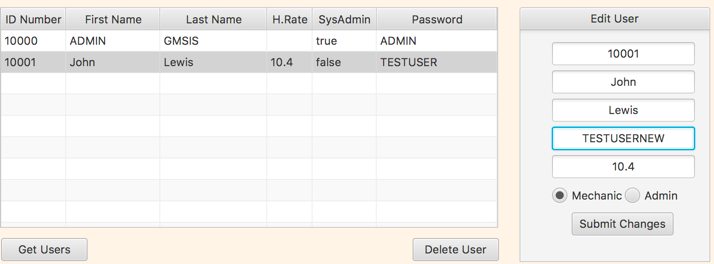
Enter the details (username and password) and press the ‘Login’ button. The system will authenticate and the application will launch. In the top left corner, there is a welcome message indicating the logged user. When an admin is logged in, the ‘Administration’ tab will appear in the main navigation bar.

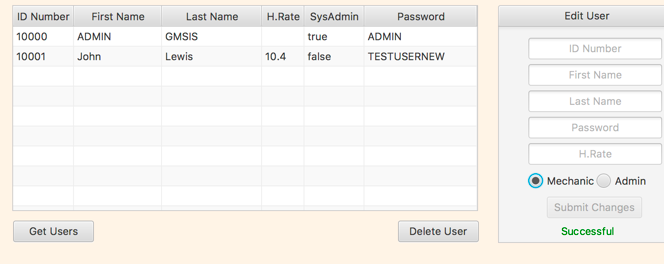
1. View list of existing users (all users of both types). **RESULT: PASS**



Logged in as admin navigate to the ‘Administration’ tab from the main navigation bar. A table with the list of all existing users will be displayed.

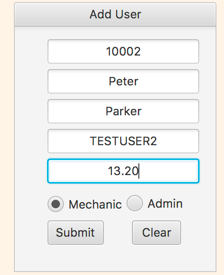
1. Change password of existing day-to-day user. **RESULT: PASS**



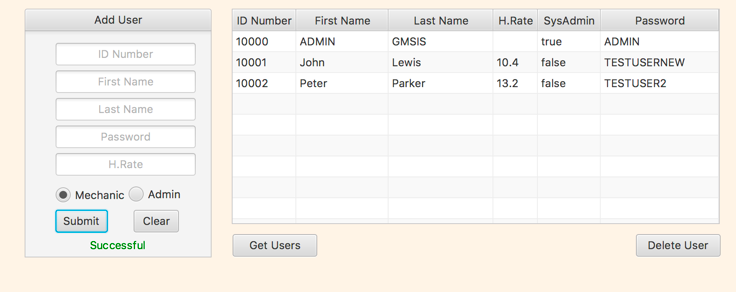


From the list of users double click the desired user. On the ‘Edit User’ pane change the password by typing on the designated text field and press the submit button. The status should display success and the list will be updated showing the new password.

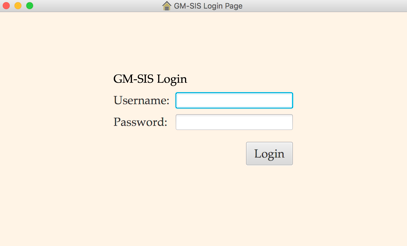
1. Create a new day-to-day user. **RESULT: PASS**



Add the day-to-day user details on the ‘Add User’ pane and press submit. The system will validate the input details and display the status success/failure. We can see that the user has been added to the system and it appears on the list of users table (3rd row).



1. Logout existing administrator. **RESULT: PASS**

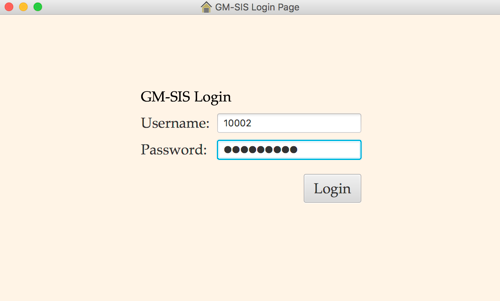


On the top right corner press the ‘Logout’ button. This will logout the current administrator, close the main interface and prompt the login-in page again.

User Details – Username: 10002, Password: TESTUSER2, First name: Peter, Last name: Parker

1. Login as the new day-to-day user. **RESULT: PASS**

Enter the day-to-day user details and press ‘Login’. If the authentication has been successful on the top left you will see the name of the logged user. Since it is not an administrator, the ‘Administration’ tab has been disabled from the main navigation bar.

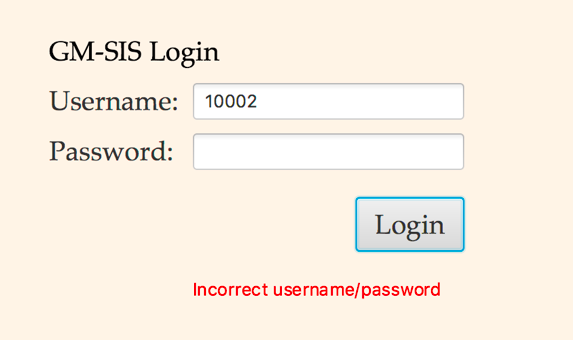


1. Logout as new day-today user. **RESULT: PASS**

On the top right corner of the interface, press the ‘Logout’ button. This will shut down the main interface and prompt the login-in page. (see screenshots of test case 5)

1. Attempt login as new day-to-day user with incorrect authentication. **RESULT: PASS**

Attempting to login as: ‘Peter Parker’, username: 10002, password: TESTUSER2, input password: ‘WRONG’

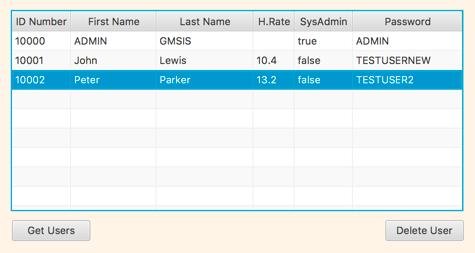
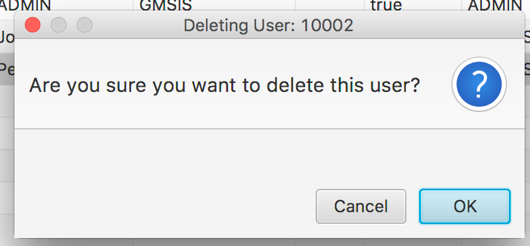
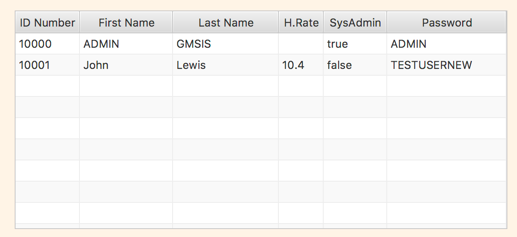


After attempting to login as new day-to-day user with the incorrect credentials, the system has detected that either the username and/or password has been incorrect. This will display the status seen at the screenshot and will prompt the user to re-enter the credentials and reattempt to login.

1. Logon as existing system administrator. **RESULT: PASS**

Enter the admin details: Username: 10000 and Password: ADMIN and press the ‘Login’ button. Once the main interface is loaded on the top left the logged user is displayed, in this case (“Welcome, ADMIN GMSIS!”). (see screenshots of test case 1).

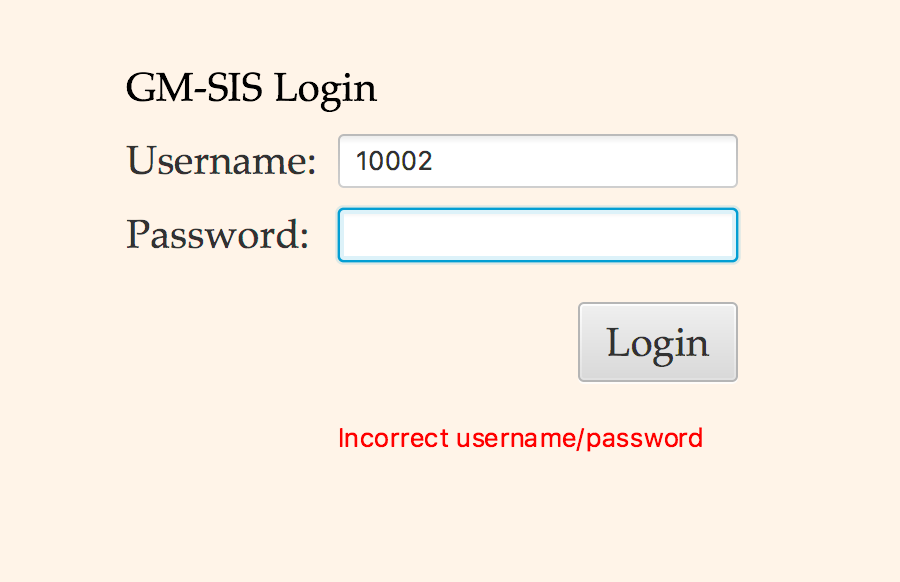
1. Delete newly created day-to-day user. **RESULT: PASS**



From the list of users **double-click** the desired user to delete. Press the ‘Delete User’ button right bottom of the table. Confirm the alert by pressing the ‘OK’ button. We can see that the list has been updated and the user is deleted.

1. Login as existing day-to-day user. **RESULT: PASS**

Log-out from the admin account (see test case 5). The system will prompt the log-in page. Attempting to login with the credentials of the deleted user will show the following error:



Try to login with a different user’s credentials:

Username: 10001, Password: TESTUSERNEW, First Name: John Last Name: Lewis:

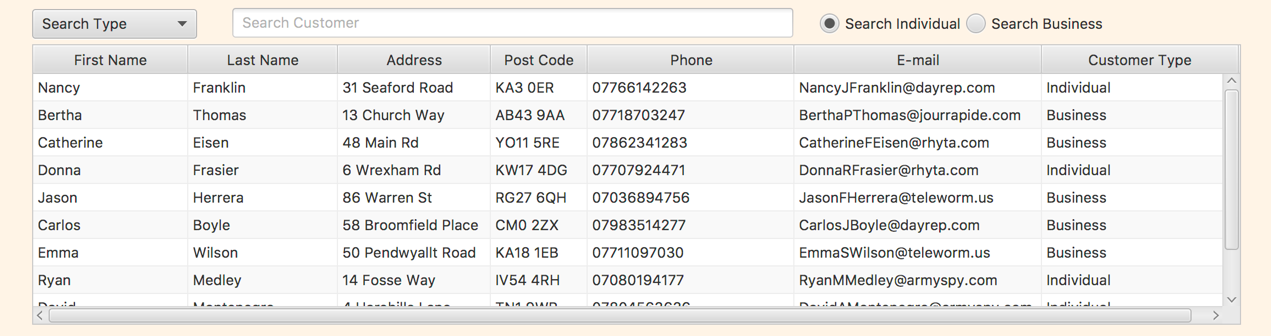
**RESULT:**



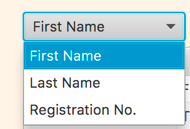
**Customer Account**

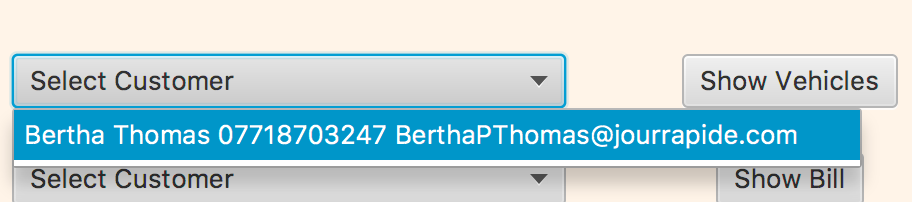
1. View existing business and private customers. **RESULT: PASS**

Once the user has logged in the system, the first tab that will be displayed is the ‘Customer’. Automatically, the table in the tab will be populated with all the existing customers (both individual and business).



1. Search for a business customer, using partial name, and show contact details and list of vehicles. **RESULT: PASS**

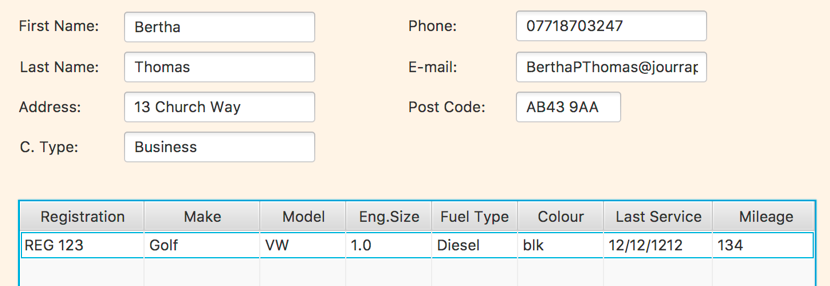


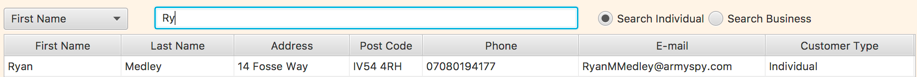
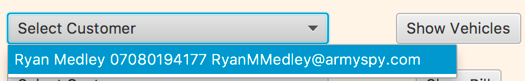
  
  
  
  
  
To display list of vehicles, select from the drop down the customer:

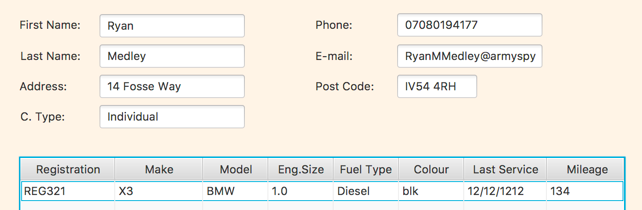
Select the desired search method from the drop-down menu. Then select the business radio-button to search for business customers. Type the partial name in the search bar and press enter.

After press, the ‘Show Vehicles’ button.

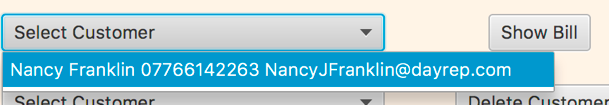
A pop up window will appear displaying all the vehicles that belong to the selected customer:

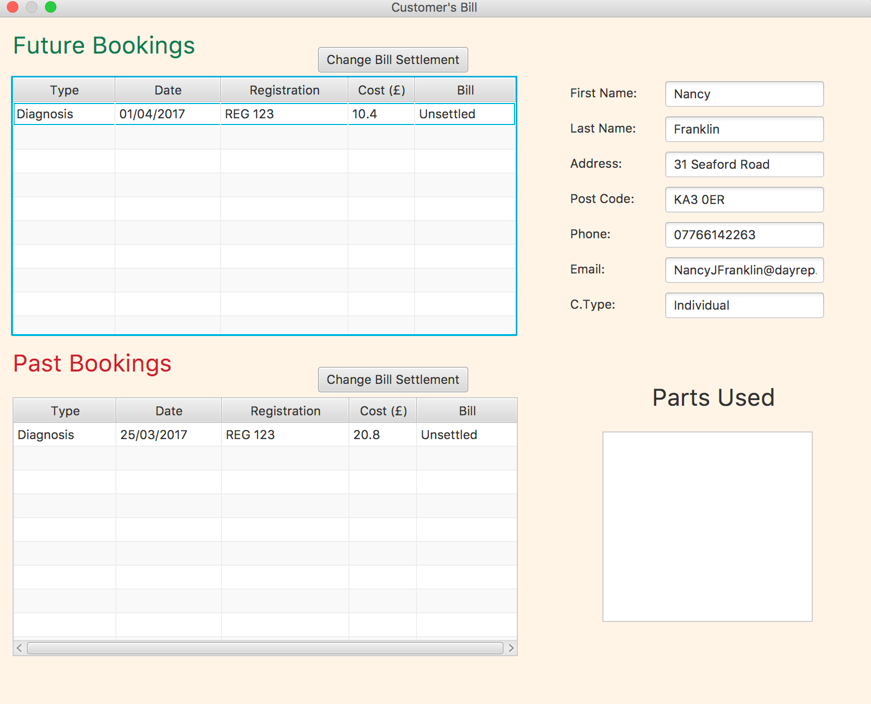
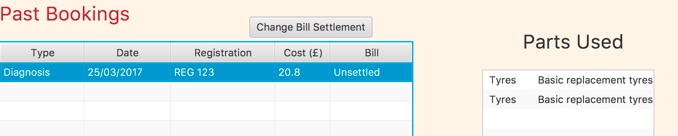


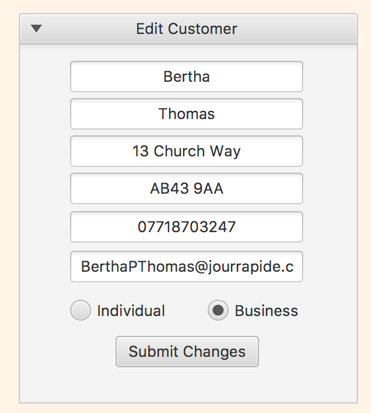
1. Search for a private customer, using partial name, and show contact details and list of vehicles. **RESULT: PASS**



Like in test case 2, select the ‘First Name’ from the drop-down as a search type and the ‘Individual’ from the radio-buttons. Type the partial name and press enter to search the private customer. To display customer’s vehicles from the drop-down list, select the customer and press ‘Show Vehicles’.

1. For an existing customer show bills for past completed bookings and show settlement status. **RESULT: PASS**



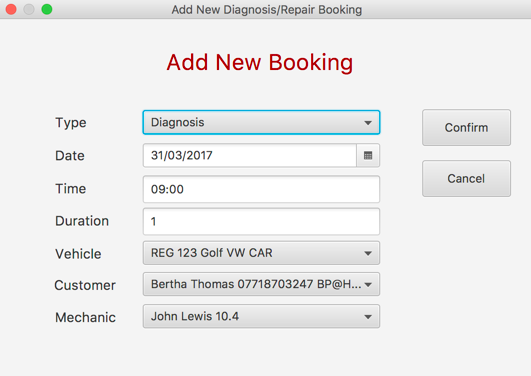
  
  
  
  
  
  
  
  
  
5. Edit a customer record. **RESULT: PASS**

From the drop-down list select the desired customer and click the ‘Show Bill’ button. A pop out window will show up with the ‘Future Bookings’ and ‘Past Bookings’ of the customer as well as his/her contact details. To view the parts that were used in a booking, **double-click** the row on the list. The settlement status of a booking can be seen on the last column of the table.

From the list of customers, **double-click** the desired customer to edit. The system will load all the details of the customer on the ‘Edit Customer’ pane. There you can change any information regarding the customer and update it by pressing ‘Submit Changes’.

The result below shows the e-mail address being changed from: [BerthPThomas@hourrapide.com](mailto:BerthPThomas@hourrapide.com) to [BP@HOTMAIL.COM](mailto:BP@HOTMAIL.COM)

6. For an existing customer initiate a new booking (don’t make the booking just initiate the process). **RESULT: PASS**

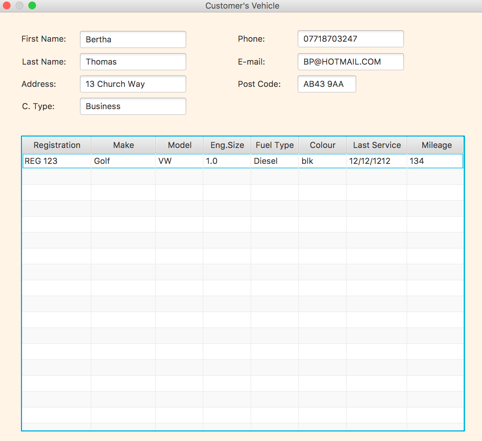
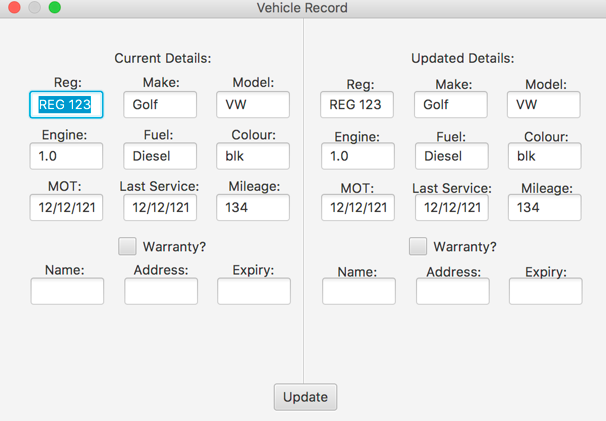




From the drop-down select the desired customer. Press the ‘Initiate Booking’ button and a pop up window will appear. This window has been taken from the Diagnosis and Repair bookings module that adds a new booking record. In this case, it just initiates the window filled in with all the client details and vehicles. The user has the capability to add a booking then and there.

7. For an existing customer initiate access to a vehicle record. **RESULT: PASS**

From the drop-down menu select the desired customer and click the ‘Show Vehicles’ button (see test cases 2,3). The window seen in Figure 1 will pop up with the list of the client’s vehicles. **Double-click** a row to initiate a vehicle record. This will pop up the window seen in Figure 2, which allows the user to edit the selected vehicle record. The pop window is retrieved from the Vehicles module.

  
Figure 1. Figure 2.

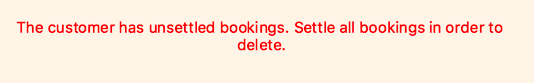
8. Delete a customer record. **RESULT: PASS**

Figure 1

Figure 3

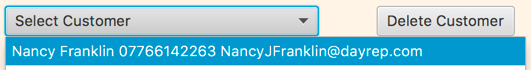
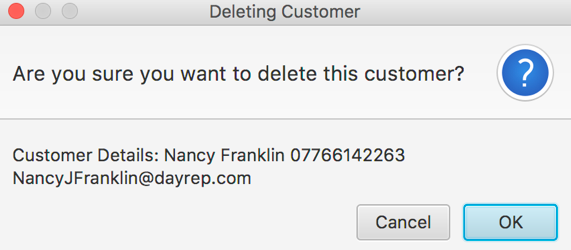
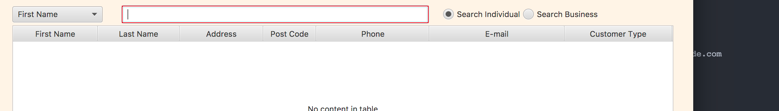
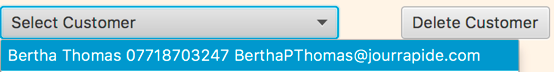
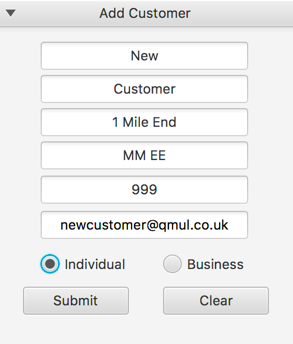


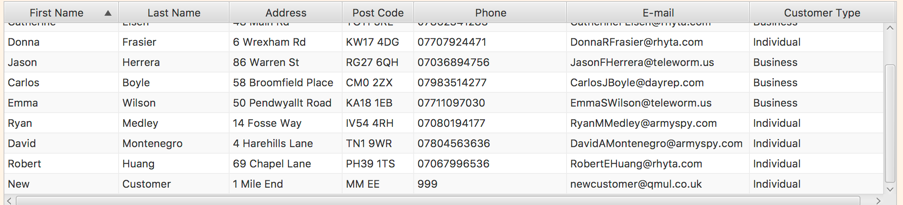
Figure 2

From the drop-down menu select the desired customer to delete. The system will pop up an alert box which will require the user’s confirmation to delete the customer records. When pressing ‘OK’, the system will check the client’s booking records for any unsettled bills. On the above example, we see the scenario of a user that has unsettled bills in the system which will lead to failure of deletion (Figure 3.).

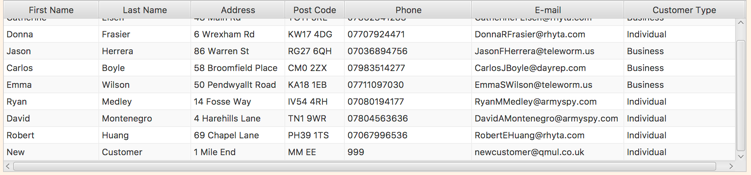
Below we can see a successful deletion of a customer. We observe that the customer record has been taken off from the customer’s list table.



9. Create a new customer account. **RESULT: PASS**

10. Logout, close application and log back in. Show created record is persistently stored. **RESULT: PASS**

On the ‘Add Customer’ pane input all the client details and press ‘Submit’. The system will validate the inserted data and display the outcome of the process (success/failure). On the right, we can see the client has been added to the system and the list has been updated.



To logout press the ‘Logout’ button top left. Logging in as a day-to-day user we can see on the customer tab that all the records are persistently stored and are present on the list of customer’s tables.

**Vehicle**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test No.** | **Purpose of Test** | **Test Data** | **Expected outcome** | **Actual outcome** | **Pass/Fail** |
| 1. | Search for vehicles by type car | No data input | Tableview of all vehicles will only show vehicles which are of type car | Tableview filtered list of vehicles to only show cars | Pass |
| 2. | Search for vehicles by type van | No data input | Tableview of all vehicles will only show vehicles which are of type van | Tableview filtered list of vehicles to only show vans | Pass |
| 3. | Search for vehicles by type truck | No data input | Tableview of all vehicles will only show vehicles which are of type truck | Tableview filtered list of vehicles to only show trucks | Pass |
| 4. | Select vehicle show parts used, past and future booking dates and the total cost per booking | Double click a vehicle record in the table and click vehicle details | Should open new FXML containing past and future booking dates for that vehicle and when you double click on booking parts used should appear | FXML opened as expected and correctly displayed all bookings in the system, when double clicking on a booking the correct parts used appear | Pass |
| 5. | Search for vehicles by manufacturer | “BMW” | Tableview will display only Vehicles were the manufacturer is BMW | Tableview of vehicles correctly displayed only BMW’s | Pass |
| 6. | Select vehicle and show Details | No data input | On double click of a vehicle record in the table, details should be displayed above the table in text fields. | Vehicle details successfully displayed above table | Pass |
| 7. | Edit an existing vehicle record | Changed colour to “red”,  Mileage to “100,000” | Upon updating vehicle record pop up window will display and prompt user to refresh the table after closing pop up, record should be updated | Vehicle record successfully updated | Pass |
| 8. | Edit the warranty details of a vehicle under warranty | Changed warranty name to “testcompany”,  Address to “testaddress”  And expiry to  “01/01/2019” | Upon clicking update button, pop up should appear prompting user to close update window and refresh the table, vehicle warranty info should be updated | Warranty information updated successfully | Pass |
| 9. | Delete a vehicle record | Delete vehicle record in the table of vehicles | Upon clicking delete a pop up should appear asking the user to confirm they want to delete this record before deleting it | Pop up appeared and vehicle record deleted | Pass |
| 10. | Create a new vehicle record | Create a new car record with registration “Testcar” | Upon clicking add car record should instantly appear in the table of vehicles | Car successfully added to the system and displaying in table | Pass |
| 11. | Logout, close application and log back in. New record should still be there | No test data | Newly added record should still be there | Car record with registration “Testcar” still there | Pass |

**Diagnosis and Repair booking**

1. View existing “diagnosis and repair” bookings.

Precondition: User has logged on, using either an admin or regular account, and there are bookings already stored by the system.

Test Data: The bookings that are present in the database.

Action: Click on the Bookings tab near the top of the screen.

Expected outcome: All bookings currently stored in the system will appear when the table is loaded.

Actual outcome: All bookings currently stored in the system appeared when the table is loaded.

Pass/Fail: PASS

1. Search for a booking by partial vehicle registration number

Precondition: A booking for the vehicle with the registration ‘Testcar’ exists in the database.

Test Data: ‘Test’

Action: Select ‘Vehicle Registration No.’ in the search options dropdown menu, type ‘Test’ in the search field and then click the search button.

Expected outcome: All bookings that involved ‘Testcar’ should appear in the table.

Actual outcome: All bookings involving ‘Testcar’ appeared in the table.

Pass/Fail: PASS

1. Search for booking by vehicle model.

Precondition: Bookings for cars made by a certain manufacturer should be stored in the database.

Test Data: ‘Polo’

Action: Select ‘Vehicle Model’ in the search options dropdown menu, type ‘Polo’ in the search field and then click the search button.

Expected outcome: All bookings for Polo model cars should appear in the table.

Actual outcome: All bookings appear, with a NullPointerException occurring.

Pass/Fail: FAIL

1. Search for a booking by customer surname.

Precondition: Bookings made for a certain customer must exist in the database.

Test Data: ‘Fran’

Action: Select ‘Customer Surname’ in the search options dropdown menu, type ‘Fran’ in the search field and then click the search button.

Expected outcome: Bookings associated with Customer ID 1, Nancy Franklin, should appear.

Actual outcome: Bookings with the correct ID appeared in the table.

Pass/Fail: PASS

1. View list of all past bookings.

Precondition: Bookings taking place on past dates must be stored in the database.

Test Data:

Action: Click the ‘Past Bookings’ button and then choose all.

Expected outcome: Bookings from before the current date should be displayed in the table.

Actual outcome: No bookings are shown.

Pass/Fail: FAIL

1. View list of future bookings.

Precondition: Bookings taking place on past dates must be stored in the database.

Test Data:

Action: Click the ‘Future Bookings’ button and then choose all.

Expected outcome: Bookings from after the current date should be displayed in the table.

Actual outcome: All bookings are shown.

Pass/Fail: FAIL

1. Attempt to make a booking outside of working hours or work day.

Precondition: To be on the booking screen.

Test Data: Time - “18:00”

Action: Click the ‘Add Booking’ button on the booking tab, then fill out the form as normal, but adding an incorrect time to the Time field.

Expected outcome: The booking should not be allowed to be made.

Actual outcome: The booking is added to the database and displayed in the table.

Pass/Fail: FAIL

1. Create a new “diagnosis and repair” booking.

Precondition: Be on the Bookings tab.

Test Data: “Diagnosis”, “09/08/2017”, “10:00”, “1”, “Testcar”, “Nancy”, “RALPH”.

Action: Click the ‘Add Booking’ button at the bottom of the screen, and fill out the test data into the appropriate fields.

Expected outcome: The booking should be added to the table.

Actual outcome: The booking was added to the table.

Pass/Fail: PASS

1. Edit a “diagnosis and repair” booking.

Precondition: A booking must be stored in the bookings table.

Test Data: The above booking, “Diagnosis” on “09/08/2017”, and “Repair”.

Action: Click on the recently created booking and then on ‘Edit Booking’. On the pop up, change “Diagnosis” to “Repair”.

Expected outcome: The table should be updated to reflect the change.

Actual outcome: The table was updated, with the type now being “Repair”.

Pass/Fail: PASS

1. Delete a “diagnosis and repair booking”.

Precondition: A booking must exist in the table.

Test Data: The booking, “Repair” on “09/08/2017”.

Action: Click on the recently created booking and then on ‘Delete Booking’. On the pop up, click ‘Yes’ to confirm.

Expected outcome: The booking should be removed from the table.

Actual outcome: The booking was deleted.

Pass/Fail: PASS

1. Logout, close application and log back in. Show created record is persistently stored.

Precondition: Data must be stored in the bookings table.

Test Data: The given 20 bookings stored in the database.

Action: Click the top right ‘Logout’ button, and then exit the system. Log back in as before, and navigate back to the bookings tab.

Expected outcome: All the bookings should still be visible in the bookings table.

Actual outcome: All the bookings appeared in the table.

Pass/Fail: PASS

**Parts**

Test Cases

1. View list of parts used on selected vehicle under an existing “diagnosis and repair” booking.

Precondition: User is logged in to system.

Action Sequence:

1. Click Parts Tab
2. Click View Repairs button
3. Select a repair from the table
4. Click view used parts for repair button

Post Condition: All the parts associated with that specific booking (installed under the booking) are shown in a table view.

Result: Success

2. Select a part used and list details.

Precondition: User is logged in to system

Action Sequence:

1. Click Parts Tab
2. Click Used Parts Button
3. Select a part from the table view
4. Press view Customer Details Button to view customer details
5. Press view Vehicle Details Button to view customer details

Post Condition: The appropriate information is displayed in a pop up window.

3. Search for a part to add to a vehicle by name.

Precondition: User is logged in to system.

Action Sequence:

1. Click Parts Tab
2. Click View Repairs button
3. Enter part name in search bar above stock parts table
4. Press Search button next to search bar

Post Condition: All the parts with a name containing the text entered in the search bar will be displayed

4. Add a part to a repair of the selected vehicle. Show that stock level reduced.

Precondition: User is logged in to system

Action Sequence:

1. Click Parts Tab
2. Click View Repairs button
3. Select a repair from the repairs table
4. Select a part from the stock parts table
5. Enter an installation date with the Installation Date DatePicker
6. Click Add Part to Repair button

Post Condition: A popup confirming a part was added will appear and the quantity of the added part in the stock table will be decreased by one.

5. View current stock list.

Precondition: User is logged in to system.

Action Sequence:

1. Click Parts Tab

Post Condition: The current stock parts will be displayed in a table

6. Add new stock item. Show stock of part increased.

Precondition: User is logged in to system.

Action Sequence:

1. Click Parts Tab
2. Select a part from the stock parts table
3. Enter the quantity to add in the Quantity text field below the table
4. Select a date from the quantity date picker below the table
5. Press Add Parts to Stock button beneath table

Post Condition: The stock of the selected part will be increased by the specified amount. A delivery will be recorded specifying the part added, the quantity and the date added.

7. Edit the record for a stock item.

Precondition: User is logged in to system.

Action Sequence:

1. Click Parts Tab
2. Select a part from the stock table
3. Click Edit Part Button
4. Change any values in the text field in the pop up
5. Click Edit Part

Post Condition: The part selected is now updated in the database with any changes entered by the user. The updated part will show in the table view.

8. Delete a stock item.

Precondition: User is logged in to system.

Action Sequence:

1. Click Parts Tab
2. Select a part from the stock table
3. Click the Delete button

Post Condition: The part will be deleted from the database and will not show up in the table view. Any deliveries or used parts referring to this part will be deleted.

9. Create a new part in the stock list and add items.

Precondition: User is logged in to system.

Action Sequence:

1. Click Parts Tab
2. Fill in valid information in the text fields to the right of the stock table
3. Click Add Part button

Post Condition: A new part will be added to the database and will appear in the table view.

10. Logout, close application and log back in. Show created record is persistently stored.

Precondition: User is logged in to system.

Action Sequence:

1. Click Parts Tab
2. Create a record (new stock part, add a part to a delivery)
3. Click log out button in top right corner
4. Close application
5. Open application
6. Log in
7. Click Parts Tab
8. View previously created record

Post Condition: Any data changed before closing the application will be appear in table views after opening application again.

**Test Cases (Specialist Repairs)**

1. View existing Specialist Repair Centres
2. Add an SPC
3. Edit details for existing SPC
4. Delete an existing SPC
5. View list of parts at selected SPC
6. Add a part to be sent to a SPC and record details
7. Add a vehicle to be sent to a SPC and record details
8. View list of outstanding items from SPC
9. View list of returned items from SPC
10. Delete a part sent to an SPC
11. Delete a vehicle sent to an SPC
12. Logout, close application and log back in. Show edited record is persistently stored and accurate
13. Edit details for an existing Vehicle Repair
14. Edit details for an existing Part Repair

**Case 1**

To view existing SPC’s, first ensure there are Repair Centres in the system. To test this, a user needs to log in (can be either admin or regular user). Then click on the “SPC” tab and a list of repair centres should show automatically on the table if they exist on the system. This displays the ID and Name of the repair centre. **[PASS]**

**Case 2**

To add an SPC a user must be logged in as an administrator and click on the “Administration” tab where they can then enter details for a new SPC and click submit (bottom left form). If the SPC name already exists however, it will not be added. **[PASS]**

**Case 3**

To edit details of an existing SPC, a user must be logged in as an administrator and click on the “Administration” tab. Here they can double click on an existing SPC as shown in the bottom table, this loads all details into the text fields to the right where they can then make changes as they wish and press the “Submit Changes” button. Changes will immediately be reflected in the table. **[PASS]**

**Case 4**

To delete an existing SPC the steps are the same as edit with differences after you double click on the existing SPC you wish to delete, from here you can press the “Delete SPC” button which will give you a confirmation message before deleting the SPC. **[PASS]**

**Case 5**

To view parts at an SPC, a user must login (can be Admin or regular user) then click on the SPC tab then select an SPC from the table listing them. The “View Parts” button will then become clickable and once clicked will show all parts at that SPC (if any) in the main table to the right. For this test parts needs to be sent to the specified SPC for results to be found, otherwise a “No Parts Found” message will be displayed. **[PASS]**

**Case 6**

To Send a part to an SPC, a user must log in (either admin or regular user), and click on the SPC tab and choose the send part radio button. Here you can select input the details for the part you wish to send and press submit, a green success message will confirm the part was sent. For this test you will need to have parts already in the system as well as a repair centre, vehicle and therefore a customer. **[PASS]**

**Case 7**

To send a Vehicle to an SPC, the steps are identical to **Case 6**, however “Send Vehicle” must be selected and requires you to enter vehicle and SPC details, choose dates and press submit. **[PASS]**

**Case 8 / 9**

To view outstanding items from SPC, a user must login, then click on the SPC tab and the outstanding items from all SPC’s should be shown on the bottom left table. To see returned items simply click the “returned items” button below the table. **[PASS]**

**Case 10**

To delete a part send to an SPC, go to the SPC tab (as regular user or admin) and search for the part by SPC, click on the record and press the delete button, a confirmation dialog will pop up ensuring it isn’t a mistake, press OK and the record will be deleted. **[PASS]**

**Case 11**

This is similar to **Case 10**, to delete a vehicle, search for vehicle either by name or registration and click on the record you wish to delete then press the delete button (self-explanatory).  **[PASS]**

**Case 12**

This test is quite self-explanatory. Perform any aforementioned operation on the system regarding adding / editing / deleting. Then close the application and re-launch. Changes made should still be visible. **[PASS]**

**Case 13**

This is similar to **Case 11**, however instead of pressing delete, press the edit button which will then load the data into the text fields to the left (which will be un-disabled). Then make changes and press submit, the changes made should be reflected in the table and a success message shown. **[PASS]**

**Case 14**

This is similar to **Case 13**, to edit a part follow the same procedures after searching for a part by SPC and clicking on the record. Press edit and submit changes once done, changes will be reflected in the table. **[PASS]**