# ECS506U Software Engineering Group Project 2017

# Group 1 Harrishan Sureshkumar EC15191 Module Name

# **Test and Contribution Report Template**

Version 2.0

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Prof. Martin Neil

## **Module Design:**

This module stores all vehicle records and allows the user to add, delete and edit vehicles. The interface consists of 3 tables; one which displays all vehicles and vehicle details, one which shows bookings for the chosen vehicle and one which shows the parts used in each vehicle. All these tables can be highlighted by clicking on the row or using the up and down arrows on the keyboard.

The interface is spilt into 4 sections. The top section consists of a back button, search bar, find button, add button, delete button, edit button and the vehicle records table.

- The search bar allows the user to search using registration number (or partial registration number), vehicle type and make of vehicle (or partial vehicle make).
- The back button resets the search bar. The find button searches the table and displays the related records in the vehicle records table.
- The add button opens a new page which displays a form to add a new vehicle.
- The edit button loads the details of the selected vehicle into a new page and allows the user to edit the details of the chosen vehicle.
- The delete button allows the user to delete the chosen vehicle after showing a confirmation message.

The bottom left section displays all customer details for the selected vehicle in the vehicle records table.

The bottom middle section consists of a table which shows the booking details of the selected vehicle and a table which shows the parts used in the selected vehicle. Three buttons allow the user to view past, future and all booking dates in the bookings table. The next booking date is displayed separately above the table.

The bottom right section displays warranty details for the selected vehicle.

### **2.2 UML Description:** (UML diagram is on next page)

The areas highlighted in green boxes are classes and methods that I was responsible for.

When my module is run it starts up with the Vehicle.fxml page which then displays all vehicle records from the database and also displays customer details, past and future bookings dates, parts details and warranty details for the selected vehicle in the vehicles table. The AddVehicle.fxml and EditVehicle.fxml pages can be opened using buttons on the Vehicle.fxml page. The AddVehicle.fxml page accesses the addVehicle() method in the database where as the EditVehicle.fxml page accesses the editVehicle() method from the database to change data. The Vehicle Controller class accesses the bookings class to obtain the total cost of a booking and uses methods in the database to obtain booking dates, it also uses methods in the database to access parts used for each vehicle.

### 2.3 Ambiguities:

Requirement 6/9: "parts used" – Initially I was unsure whether I had to record every part included in every vehicle or whether every part ever installed by the garage for the chosen vehicle. I decided to go with my second interpretation after a discussion with my group it seemed more reasonable.

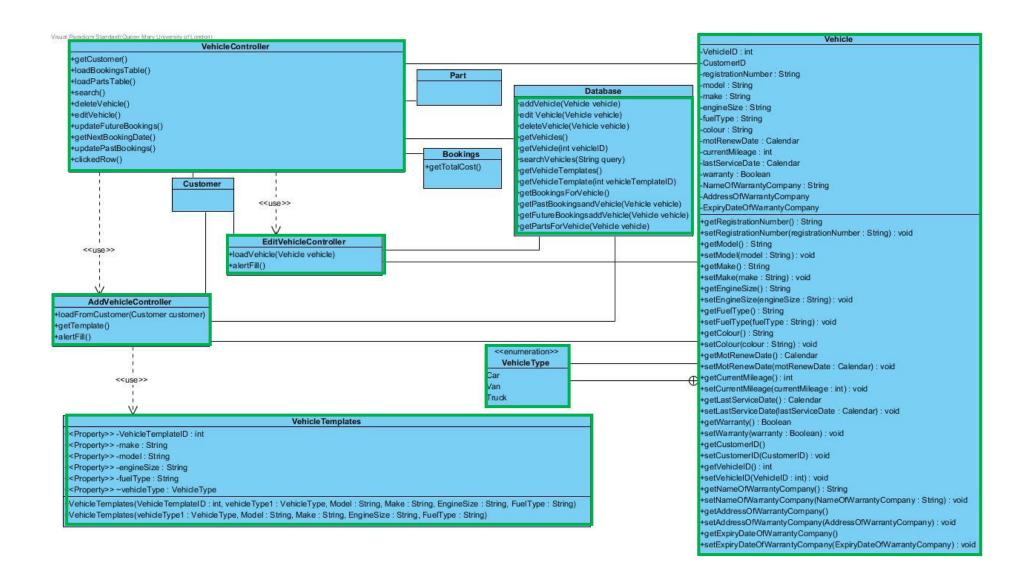
Requirement 8: "The user should be able to query the system to get a list of vehicles with customer details and next booking date. They should be able to add, edit and delete directly from this list" - At first I was unsure whether the user should be able to edit customer details and next booking date from the vehicle records page. However after discussion with my group members in charge of customer and booking we decided to not allow the user to edit customer details and next booking date as the requirement specifies "list" as just the "list of vehicles" to be editable, added or deleted.

### 3.1 Team Performance:

All team members worked together well and managed to help each other in time of need.

Matteo Cassia	<b>E</b> , Helped all group members when any questions when in doubt and made extra effort to get the system finished on time.
Yousf Khan	M
Pahel Gala	M
Yachen Hu	M

### **UML Diagram for Vehicle:**



### 4 Testing:

### **Test Cases and documentation for Authentication**

