ECS506U Software Engineering

Group Project 2017

**Group X**

**Student Name**

**QM User Name**

**Module Name**

**Test and Contribution Report Template**

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# Introduction

1. This document is a template – it is up to you to replace the contents with material relevant to your contribution to the group project.
2. The test and contribution report is a confidential report that must be submitted as a coursework item. It should be no more than 10 pages and have no appendices.
3. It must have a front cover clearly identifying yourself and the group letter of the group you belong to. The report is expected to reflect three things:

* Your design: A summary description of the design of your module and how it integrates into the system as a whole.
* Your testing: A test plan along with achieved test results against each requirement for that module.
* Their contribution: A statement of the contribution made by each member of the group to project success

1. This document must be no more than 10 pages and should not contain any appendices.
2. Your submitted document does not need an introduction section so please delete this section and all other extraneous text from your submission.

# Module Design

1. A description of the module you designed and built, including a description
2. Describe this formally and provide design descriptions in UML. You must include key UML diagrams that help explain your contribution (for example a class diagram that highlights the parts that you were responsible for). Marks will be deducted for not using UML and for not highlighting what methods and classes you produced.
3. Describe any requirements ambiguities and state how you chose to interpret them.

# Team Performance

1. Brief description of how you felt the team worked together.
2. A table listing each group member and assessment grades must be included in the individual report. The rows will be all the group members’ names, as listed in the group membership spreadsheet (no alternative spellings and nicknames please!) except your own, and the column will list YOUR confidential assessment of the quality of contribution made by each member on a grade (E, M B and F).
3. If all group members contributed satisfactorily and equally the grading should be a default M for each member. If you feel that the performance of a specific member of the group was below expectations, then grade them as a B and if above then an E. If they failed to make a significant contribution, then grade them F.
4. In all cases where you grade a group member with any other grade than M a detailed justification must be given.
5. In terms of grading we mandate the following interpretation, where expectations are as defined in this document (not your own!):

* E should be taken to mean contribution exceeded expectations
* M meets expectations
* B is below expectations
* F significant lack of contribution.

1. Do not list nor grade yourself in your table.
2. Do not share your grading or collude in your grading with any other members of your group. To do so will incur a penalty.

# Test Plan and Results

1. Test plan organized by module requirements describing the test case that should be exercised to demonstrate the requirement has been met. This should be detailed enough to allow someone else to successfully access the system and test your module.
2. Test results documented against each requirement proving that you ran that test case and confirming the result (pass or fail).
3. The first test case must be of the authentication functionality for the system regardless of which module you were responsible for.
4. Your test plan and results must describe the tests and results for one of the following seven modules:

* Customer account
* Vehicle records
* Diagnostic and Repair bookings
* Parts record
* Specialist Repairs
* Scheduled maintenance bookings

1. In addition to authentication use only one of the test templates below to base your test cases on, for your module.
2. Indicate whether the test is passed or failed when you tested it.
3. Any test data that you require must either be in the system database actually delivered or required to be entered by the tester. Note that existing test data is required and you will be penalised if excessive data entry is required.
4. Show screen shots and specify icons/buttons where appropriate, but do not overdo it – remember the space limitations.
5. Note that records may be timestamped as in the past or future so be mindful to create test data records that fall before March 31st and after May 1st 2017.
6. Note that the assessment will involve running additional test cases so please do not assume that because you have passed the test cases that we will not run additional cases and that your system is error free. Further and more extensive testing is therefore encouraged.

## Test Cases - Authentication (A)

1. Logon as existing system administrator – provide id and password.
2. View list of existing users (all users of both types).
3. Change password of existing day-to-day user.
4. Create a new day-to-day user.
5. Logout existing administrator.
6. Login as the new day-to-day user.
7. Logout as new day-today user.
8. Attempt login as new day-to-day user with incorrect authentication.
9. Logon as existing system administrator.
10. Delete newly created day-to-day user.
11. Login as existing day-to-day user

## Test Cases - Customer account (A)

1. View existing business and private customers.
2. Search for a business customer, using partial name, and show contact details and list of vehicles.
3. Search for a private customer, using partial name, and show contact details and list of vehicles.
4. For an existing customer show bills for past completed bookings and show settlement status.
5. Edit a customer record.
6. For an existing customer initiate a new booking (don’t make the booking just initiate the process).
7. For an existing customer initiate access to a vehicle record.
8. Delete a customer record.
9. Create a new customer account.
10. Logout, close application and log back in. Show created record is persistently stored.

Note: At least 10 customer accounts must be created and integrated with data from other modules.

## Test Cases - Vehicle record (A)

1. Search for vehicles by type (car, truck, van).
2. Select vehicle and show parts used, past and future booking dates, and the total cost per booking (warranty and non-warranty).
3. Search for vehicles by manufacturer.
4. Select vehicle and show details.
5. Edit an existing vehicle record.
6. Edit the warranty details of a vehicle under warranty.
7. Delete a vehicle record.
8. Create a new vehicle record.
9. Logout, close application and log back in. Show created record is persistently stored.

Note: At least 15 vehicle records must be created and integrated with data from other modules.

## Test Cases - Diagnosis and Repair booking (A)

1. View existing “diagnosis and repair” bookings.
2. Search for a booking by partial vehicle registration number
3. Search for a booking by vehicle template.
4. Search for a booking by customer surname.
5. Select a “diagnosis and repair” booking and view details.
6. View list of future bookings.
7. Select a future “diagnosis and repair” booking and view details.
8. Attempt to make a booking outside of working hours or work day.
9. Edit the mileage of a vehicle associated with a past booking.
10. Create a new “diagnosis and repair” booking.
11. Logout, close application and log back in. Show created record is persistently stored.

Note: At least 10 past bookings and 10 future bookings must be created and integrated with data from other modules.

## Test Cases - Parts (A)

1. View list of parts used on selected vehicle under an existing “diagnosis and repair” booking.
2. Select a part used and list details.
3. Search for a part to add to a vehicle by name.
4. Add a part to a repair of the selected vehicle. Show that stock level reduced.
5. View current stock list.
6. Add new stock item. Show stock of part increased.
7. Edit the record for a stock item.
8. Delete a stock item.
9. Create a new part in the stock list and add items.
10. Logout, close application and log back in. Show created record is persistently stored.

Note: At least 20 stock items must be created and integrated with data from other modules. Records of at least 5 new stock deliveries and 10 stock withdrawals to repair vehicles must be shown. This data must be integrated with data from other modules.

## Test Cases - Specialist Repairs (B)

1. View existing Specialist Repair Centres (SPCs).
2. Search for a vehicle at a selected SPC by partial registration number.
3. View list of parts at selected SPC.
4. Select part from this list and view details.
5. Add a part to be sent to a SPC and record details.
6. View list of returned items from SPC.
7. Select item done from SPC and show SPC costs on customer bill.
8. View list of outstanding items at all SPCs.
9. Delete a part sent to an SPC.
10. Edit details for existing SPC.
11. Logout, close application and log back in. Show edited record is persistently stored and accurate.

Note: At least 10 past specialist repair bookings and 10 future specialist repair bookings must be created and integrated with data from other modules.

## Test Cases Scheduled Maintenance bookings (C)

1. View existing “scheduled maintenance” bookings.
2. Search for a booking by partial vehicle registration number
3. Search for a booking by vehicle template.
4. Search for a booking by customer surname.
5. Select a completed “scheduled maintenance” booking and view details.
6. View list of future bookings.
7. Select a future “scheduled maintenance” booking and view details.
8. Attempt to make a booking outside of working hours or work day.
9. Edit the mileage of a vehicle associated with a past booking.
10. Create a new booking for a Service.
11. Create a new booking for an MoT.
12. Logout, close application and log back in. Show created record is persistently stored.

Note: At least 10 past bookings and 10 future bookings must be created and integrated with data from other modules.