

# Tunku Abdul Rahman University College

## AACS2204

### Object-Oriented Programming Techniques

#### Assignment

2021/2022

Programme : DCS2  
Tutorial Group : Group 6  
Date Submitted to Tutor : 17/9/2021

#### Team Members:

No	Student Name	Student ID
1.	Wong Kah Ming	20WMD02357
2.	Melvin Wong Wai Hung	20WMD03747
3.	Vickham Foo	20WMD03488

No.	Team Member	Task(s) Allocated
1.	Wong Kah Ming	<ul style="list-style-type: none"> <li>- Write code for the vehicle class, reservation class</li> <li>- Giving assist in technical error</li> <li>- Giving assist during final program combination</li> </ul>
2.	Melvin Wong Wai Hung	<ul style="list-style-type: none"> <li>- Write code for the payment class, report class</li> <li>- Giving assist in the system design</li> <li>- Giving assist in documentation to ensure it fulfill the requirement</li> </ul>
3.	Vickham Foo	<ul style="list-style-type: none"> <li>- Write code for the user class</li> <li>- Combine the final program</li> <li>- Perform test run to ensure the program is errorless</li> </ul>

### **Coursework Declaration**

We confirm that we have read and shall comply with all the terms and conditions of TAR University College's plagiarism policy.

We declare that this assignment is free from all forms of plagiarism and for all intents and purposes is our own properly derived work.

Signature :	<i>Wong</i>	<i>Melvin</i>	<i>vickham</i>
Name :	Wong Kah Ming	Melvin Wong Wai Hung	Vickham Foo
Date :	17/9/2021	17/9/2021	17/9/2021

## Peer Evaluation Form

Name : Wong Kah Ming

The following is a list of statements to be answered by each of your group members. Think carefully about assigning rating values for each of the statements. Rate each group member, in terms of the contributions made towards the overall group project.

Write the name in the space provided. Then, allocate points among your group members in such a fashion as to express your beliefs about each person's contributions to the overall group project.

Scale:

**5-Strongly Agree      4-Agree      3-Neutral      2-Disagree      1/0-Strongly Disagree**

No	Criteria	Group Members	
	Name:	Melvin Wong Wai Hung	Vickham Foo
1	Was dependable in attending team meetings.	5	5
2	Willingly accepted assigned tasks.	5	5
3	Contributed positively to group discussions.	5	5
4	Completed work on time or made alternative arrangements.	5	5
5	Helped team member to finish their tasks on time.	5	5
6	Did work accurately and completely.	5	5
7	Produced high quality works.	5	5
8	Contributed a fair share to weekly works.	5	5
9	Worked well with other group members.	5	5
10	Overall was a valuable member of the team	5	5
<b>Total:</b>		50	50

Signature : *Wong*

Name : Wong Kah Ming

Date : 17/9/2021

## Peer Evaluation Form

Name : Melvin Wong Wai Hung

The following is a list of statements to be answered by each of your group members. Think carefully about assigning rating values for each of the statements. Rate each group member, in terms of the contributions made towards the overall group project.

Write the name in the space provided. Then, allocate points among your group members in such a fashion as to express your beliefs about each person's contributions to the overall group project.

Scale:

**5-Strongly Agree      4-Agree      3-Neutral      2-Disagree      1/0-Strongly Disagree**

No	Criteria	Group Members	
	Name:	Wong Kah Ming	Vickham Foo
1	Was dependable in attending team meetings.	5	5
2	Willingly accepted assigned tasks.	5	5
3	Contributed positively to group discussions.	5	5
4	Completed work on time or made alternative arrangements.	5	5
5	Helped team member to finish their tasks on time.	5	5
6	Did work accurately and completely.	5	5
7	Produced high quality works.	5	5
8	Contributed a fair share to weekly works.	5	5
9	Worked well with other group members.	5	5
10	Overall was a valuable member of the team	5	5
<b>Total:</b>		50	50

Signature : *Melvin*

Name : Melvin Wong Wai Hung

Date : 17/9/2021

## Peer Evaluation Form

Name : Vickham Foo

The following is a list of statements to be answered by each of your group members. Think carefully about assigning rating values for each of the statements. Rate each group member, in terms of the contributions made towards the overall group project.

Write the name in the space provided. Then, allocate points among your group members in such a fashion as to express your beliefs about each person's contributions to the overall group project.

Scale:

**5-Strongly Agree      4-Agree      3-Neutral      2-Disagree      1/0-Strongly Disagree**

No	Criteria	Group Members	
	Name:	Wong Kah Ming	Melvin Wong Wai Hung
1	Was dependable in attending team meetings.	5	5
2	Willingly accepted assigned tasks.	5	5
3	Contributed positively to group discussions.	5	5
4	Completed work on time or made alternative arrangements.	5	5
5	Helped team member to finish their tasks on time.	5	5
6	Did work accurately and completely.	5	5
7	Produced high quality works.	5	5
8	Contributed a fair share to weekly works.	5	5
9	Worked well with other group members.	5	5
10	Overall was a valuable member of the team	5	5
<b>Total:</b>		50	50

Signature : *vickham*

Name : Vickham Foo

Date : 17/9/2021

# Table of Contents

1.0 Introduction	6
2.0 UML Class Diagram	7
3.0 Output	8
Login Screen	8
Renter Login	9
Login Successful	10
After Login	11
Rent Vehicle	12
View Reservation Status	19
My Account	21
Register	24
Staff Login	27
Add Vehicle	28
View Vehicle	30
Update Vehicle	32
Delete Vehicle	34
View Profile (Staff)	35
Report	36
Logout	38
Shut Down	40

## 1.0 Introduction

Vehicles are a common form of transportation nowadays in our life. Without vehicles, it would be difficult for people to travel from one place to another. Thus, our team has decided to implement a front-end vehicle reservation system to provide people a platform to rent different types of vehicles for a variety of uses.

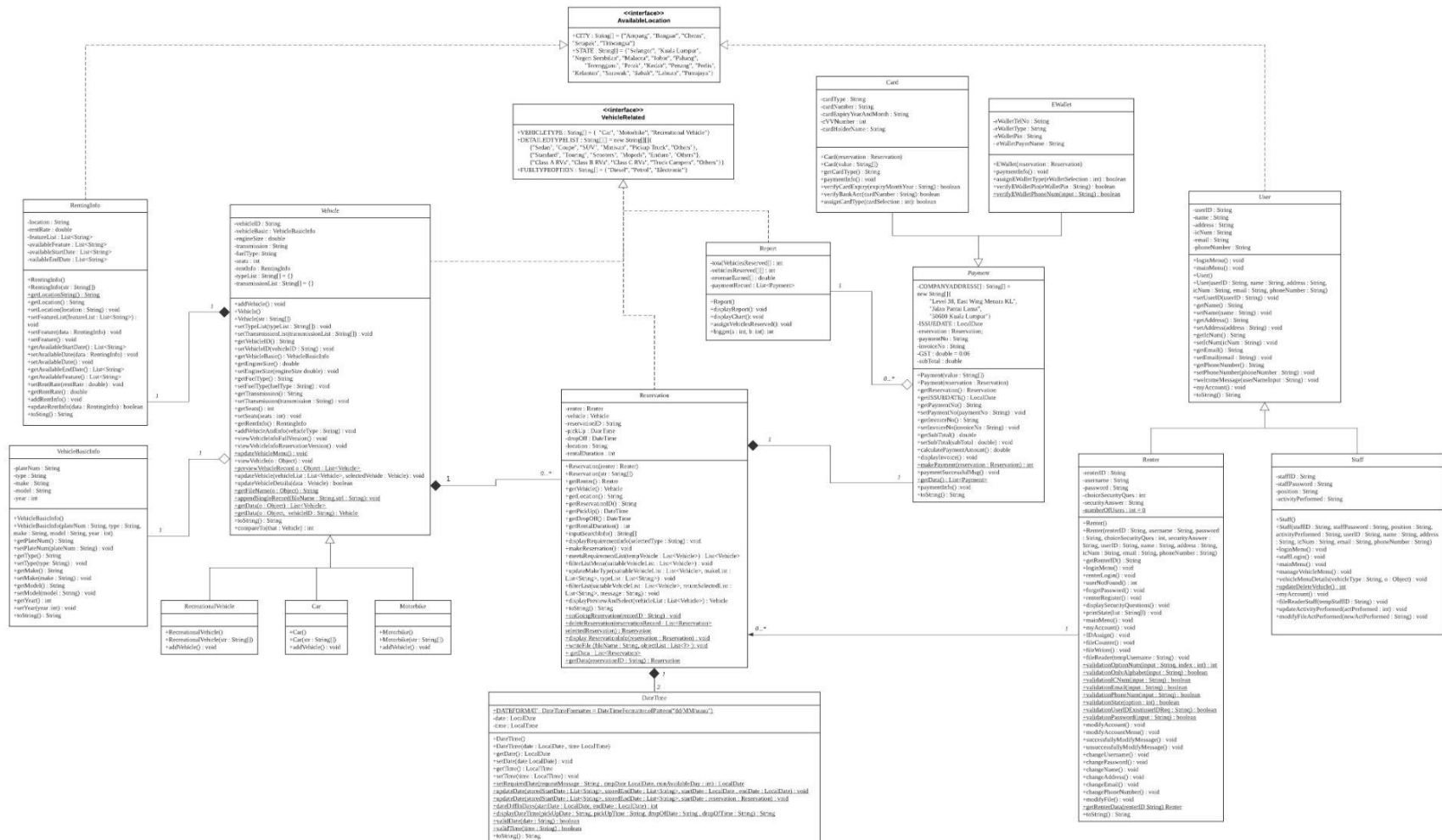
In our system, users are able to reserve vehicles that suit their needs, whether it's cars, motorbikes or recreational vehicles, we are there to provide the vehicles they need. Overall, there are a few main classes derived to solve the problems faced from an object-oriented perspective.

The first main class is Vehicle class. This class is mainly used to implement methods related to vehicles, such as determining the vehicle information such as the car makes and models etc. This class is further linked to the Rental class to store the vehicles' rental information.

Aside from that, a User class is also implemented in our system. This class is the parent class for Renter and Staff class, because both of these classes share the same characteristics, thus it's implemented by using inheritance concept from object-oriented approach.

Then, there's a Reservation class that's in charge of letting renters reserve a vehicle they prefer, which leads to the Payment class. This class is mainly to carry out methods to calculate the payment amount and let the renters pay.

## 2.0 UML Class Diagram





### 3.0 Output

#### Login Screen

```
Vehicle Rental - My KL
=====

+-----+
|          1.Renter          |
+-----+
|          2.Staff           |
+-----+
|          3.Exit            |
+-----+

Your Selection |>
```

The following will be the login screen that has been displayed when the user enters the vehicle rental system. This system can be used by normal users, which use the system for vehicle reservation purposes, and the staff, which use the system to manage the data such as vehicle information, or view the report regarding the number of vehicles reserved monthly.

## Renter Login

```

                                Renter
=====

+-----+
|               1. Login               |
+-----+
|               2. Register             |
+-----+
|               0. Return               |
+-----+
```

Your Selection |> 1

After they select the 'Renter' option, they will then be redirected to this screen, where they are able to choose whether to login to their existing account or register a new account in the system.

Login Successful

## Login

=====

Username : vickham02

Password : vickham123.

Welcome back Vickham Foo!

Press any key to continue :

In this login screen, renters are required to key in their username and corresponding password as registered since the system will validate both of the fields. This is to check whether the username and password match with the registered ones. After successfully login, a welcome message will be displayed along with their name.

After Login

```

Main Menu
=====
+-----+
|      1. Rent Vehicle      |
+-----+
|      2. Reservation Status |
+-----+
|      3. My Account        |
+-----+
|      0. Log Out           |
+-----+

Your Selection |>
```

After successful login, the renters are able to perform certain actions by inputting a corresponding number, such as renting a vehicle, or view their reservation status, or even view their account. Additionally, they can also log out of the system if they wish to quit the system.

## Rent Vehicle

```
Available Vehicle Type :
+-----+
| 01) Car           | 02) Motorbike       | 03) Recreational Vehicle |
+-----+

Please select the vehicle type you want to reserve : 1

Please enter your desired pickup date (DD/MM/YYYY): 12/11/2021

Please enter your desired pickup time (HH:MM): 11:00

Please enter your desired dropoff date (DD/MM/YYYY): 21/11/2021

Please enter your desired dropoff time (HH:MM): 21:00

Please enter your desired pickup and dropoff city in Kuala Lumpur:

Available City:
+-----+
| 01) Ampang        | 02) Bangsar         | 03) Cheras           |
+-----+
| 04) Setapak       | 05) Titiwangsa      |                       |
+-----+

Please select required city : 3
```

If the renters wish to rent a vehicle, they have to select the vehicle type that they prefer, and thus enter the relevant reservation information as shown in the screenshot, such as the pickup date and pickup time, etc. A list of available cities is also shown to ease the renters during the reservation process in terms of user-friendliness.

### Reservation Information

Vehicle Type	: Car	
PickUp Date	: 2021-11-12	
PickUp Time	: 11:00	
DropOff Date	: 2021-11-21	
DropOff Time	: 21:00	
location	: Bangsar	

Please confirm the above information are correct. (Y/N):

After entering all of the required information, a table will be shown to let them confirm whether the information entered is correct.

There are total 4 suitable vehicle been founded.

Do you want to filter the list? (Y/N) : u

Invalid input, please enter again

Do you want to filter the list? (Y/N) : y

Please select the action that you would like to perform

1. Filter the result to specified brand(s)
2. Filter the result to specified type(s)
3. Display record according price's accending order
4. Display record according price's decending order
0. Return

Please enter your selection :

Then, the renters can choose whether to filter the results found according to their preferences, a simple validation is done, in which the system will check whether they have entered either 'Y/N'.

```

Please select the action that you would like to perform
1. Filter the result to specified brand(s)
2. Filter the result to specified type(s)
3. Display record according price's accending order
4. Display record according price's decending order
0. Return
Please enter your selection : 1

The following brand/make(s) has/have been founded
+-----+
| 01) Toyota          | 02) Proton          | 03) Mazda          |
+-----+
| 04) Honda           |                     |                     |
+-----+

You may select more than 1 brand/make(s). Please separate your selection with comma. IE: 1,2

Your selection |> 1,2

The searched record has been updated
There are total 3 suitable vehicle remaining.

```

This screenshot shows that the system is able to filter the results according to the vehicle brands, the renters can choose to further classify the vehicle brands as they wish to narrow down the choices.



The following vehicle(s) meet your needs.

No.	Make	Model	Type	Rent Rate / Day (RM)
1.	Toyota	Hilux	Pickup Truck	150.00
2.	Proton	Persona	Sedan	198.00
3.	Proton	X50	SUV	250.00

Please select required vehicle to view more information : 3

Vehicle ID	: CA35	Rent Rate	: RM 250.00
Vehicle Make	: Proton	Feature	: Touch 'n Go, Child Seat
Vehicle Type	: SUV	Engine Size	: 1.30
Vehicle Model	: X50	Transmission	: Hybrid
Year Purchase	: 2021	Fuel Type	: Petrol
Seats	: 6		

Do you want to rent this vehicle? (Y/N) :

This screen shows the final result of vehicles that suit the renters' needs. They can then choose one of the vehicles to view more details of that particular vehicle. They can also choose to rent that vehicle by pressing 'Y'.

How would you like to pay your bill?

1. Card
2. E-Wallet

Please enter the payment method that you like: 2

Please enter the information below:-

Which E-Wallet platform are you using?

1. Touch 'n Go
2. GrabPay
3. Boost

Please enter your selection: 1

Please enter E-Wallet account's owner name: Vickham Foo

Please enter E-Wallet account's owner phone number: 016-2031029

Please enter the E-Wallet verification PIN to complete your transaction: 546213

Then, the renters are required to pay the reservation fee by selecting the payment method that they want, whether it's by card or e-wallet. In this case, the renter picked the e-wallet method, thus the system will prompt them to enter the relevant e-wallet information, such as the account owner's name and the verification PIN.

# INVOICE

Level 38, East Wing Menara KL  
Jalan Pantai Lama  
50600 Kuala Lumpur

## Bill To:

Vickham Foo  
Selangor, Balakong  
0123456789  
vickham@gmail.com

Invoice No. : Invoice #12  
Invoice Date : 17/09/2021  
Payment No. : P0012

No.	Description	Total: RM
1.	Reservation ID: RS06	2250.00
	Location: Cheras	
	Start Date: 2021-11-12 11:00 End Date: 2021-11-21 21:00	
	Rental Duration: 9 Day(s)	
	Vehicle Plate Number: WMY 7864	
	Rent Rate per Day: RM250.0	
		Subtotal: RM2250.00
		Tax : RM 135.00
		Total : RM2385.00

Thanks for reserving a vehicle with us!

After successfully paying the bill, an invoice will be generated and displayed to show the reservation information along with the renter's name and the amounts paid.

## View Reservation Status

```

Main Menu
=====
+-----+
| 1. Rent Vehicle |
+-----+
| 2. Reservation Status |
+-----+
| 3. My Account |
+-----+
| 0. Log Out |
+-----+

Your Selection |> 2

+-----+-----+-----+-----+-----+
| No. | Reservation ID | Location | Reserved Vehicle ID | Reservation Duration |
+-----+-----+-----+-----+-----+
| 1. | RS01 | Ampang | CA40 | 11/11/2021, 11:11 - 21/11/2021, 11:11 |
+-----+-----+-----+-----+-----+
| 2. | RS06 | Cheras | CA35 | 12/11/2021, 11:00 - 21/11/2021, 21:00 |
+-----+-----+-----+-----+-----+

0. Return

Please select required vehicle to view more information :
```

If the users select to view their reservation status, a list of vehicles that they reserved will be shown, then they can pick which vehicle they would like to view more information about.

Please select required vehicle to view more information : 3

Reservation ID	Location	Duration
RS06	Bangsar	12/11/2021, 11:00 - 21/11/2021, 21:00

Vehicle ID	: CA37	Rent Rate	: RM 210.00
Vehicle Make	: Toyota	Feature	: Bluetooth, GPS
Vehicle Type	: Pickup Truck	Engine Size	: 2.10
Vehicle Model	: Tacoma	Transmission	: Auto
Year Purchase	: 2016	Fuel Type	: Electronic
Seats	: 4		

Please select the action you want to perform.

1. Cancel reservation

0. Return

Please enter your selection : |

The relevant reservation information will be shown, and they can select whether to cancel that particular reservation.

## My Account

```

                                Main Menu
                                =====
                                +-----+
                                | 1. Rent Vehicle |
                                +-----+
                                | 2. Reservation Status |
                                +-----+
                                | 3. My Account |
                                +-----+
                                | 0. Log Out |
                                +-----+

Your Selection |> 3

+-----+
| Account |
+-----+
| Renter ID | R00001 |
+-----+
| UID | UID00001 |
+-----+
| Name | Vickham Foo |
+-----+
| IC Number | 020416101237 |
+-----+
| Address | Selangor,Balakong |
+-----+
| Email | vickham@gmail.com |
+-----+
| Phone Number | 0123456789 |
+-----+
```

If the renters choose to view their account, their personal information will be displayed on screen as in the output above.

```

+-----+
|           1.Modify Account           |
+-----+
|           0.Return                   |
+-----+

```

Your Selection |> 1

```

                        Modify Account
=====
+-----+
|           1.Username                 |
+-----+
|           2.Password                 |
+-----+
|           3.Name                     |
+-----+
|           4.Address                  |
+-----+
|           5.Email                    |
+-----+
|           6.Phone Number              |
+-----+
|           0.Return                   |
+-----+

```

Your Selection |>

Then, they can choose to edit a specific field of information by entering their corresponding number.

```

                                Modify Account
                                =====

+-----+
|      1.Username      |
+-----+
|      2.Password      |
+-----+
|      3.Name          |
+-----+
|      4.Address       |
+-----+
|      5.Email         |
+-----+
|      6.Phone Number  |
+-----+
|      0.Return        |
+-----+

Your Selection |> 6

Current          : 0123456789
New Phone Number : 0123456788

Are you sure you want to Modify(Y/N)? y

Your account have been successfully modify!
Press any key to continue :

```

In this case, the user has chosen to edit their phone number, so their current phone number will be shown, and the system will prompt them to enter their new phone number. A confirmation message will be prompted afterwards to let them confirm their edit.



## Register

```

                                Renter
=====
+-----+
|           1. Login           |
+-----+
|           2. Register        |
+-----+
|           0. Return          |
+-----+
```

```
Your Selection |> 2
```

The renter can also choose to register a new account in the system by pressing 2 as shown in the output.

```

                                Registration
                                =====

Personal Information

Name : Kelvin Chan

Address :

+-----+
|                                     STATE                                     |
+-----+
| 01) Selangor      | 02) Kuala Lumpur      | 03) Negeri Sembilan    | 04) Malacca      |
+-----+
| 05) Johor         | 06) Pahang            | 07) Terengganu        | 08) Perak        |
+-----+
| 09) Kedah         | 10) Penang            | 11) Perlis            | 12) Kelantan     |
+-----+
| 13) Sarawak       | 14) Sabah             | 15) Labuan            | 16) Putrajaya    |
+-----+

Your Selection |> 1

City : Cheras

IC Number : 010219-10-1023

Email : kelin@gmail.com

Phone Number : 018-2123221

Username : kelvin

Password : Kelvin123.

For security purpose,
Please select one of the security question below.

1. Your mother's name
2. Your favourite movie
3. Your pet's name

Your choice : 3

Please do no forget the answer.
It would be use to reset your password in the future.

Your answer : husky

```

During the registration process, the renters are required to enter their personal details, such as name and address. Lastly, they have to answer a security question for security purposes, such as to assist them in retrieving their password in case they need to reset it in the future.

```
Are you sure you want to Register(Y/N)? y
```

```
Your account have been successfully created!
```

```
Press any key to continue : |
```

After successfully entering all of the personal information, they have to confirm whether to register an account by pressing 'Y'.

## Staff Login

```
Vehicle Rental
=====
+-----+
|           1.Renter           |
+-----+
|           2.Staff            |
+-----+
|           3.Exit             |
+-----+
```

Your Selection |> 2

```
Staff
=====
+-----+
|           1.Login            |
+-----+
|           0.Return           |
+-----+
```

Your Selection |> 1

Staff ID : S001

Password : vickham0416

Welcome back Vickham Foo!

Press any key to continue :

In this system, the staff can also choose to login by entering their staff ID and corresponding password.

## Add Vehicle

```
Vehicle Registration - Car
=====

Car plate number : WLA 1231

Car Make/Brand : Toyota

Car model : Artist

Car type :
+-----+
| 01) Sedan           | 02) Coupe           | 03) SUV             |
+-----+
| 04) Minivan         | 05) Pickup Truck    | 06) Others          |
+-----+

Please select your car type : 2

Year Purchase : 2002

Available Seats : 5

Engine Size : 1.5

Fuel Type :
+-----+
| 01) Diesel          | 02) Petrol          | 03) Electronic      |
+-----+

Please select your car's fuel type : 2

Transmission type :
+-----+
| 01) Auto            | 02) Manual          | 03) Hybrid          |
+-----+

Please select your car's transmission type : 1
```

After logging into their system, the staff can choose to add a new vehicle by entering the required vehicle information.

### Renting Info

Available City:

01) Ampang	02) Bangsar	03) Cheras
04) Setapak	05) Titiwangsa	

Please select required city : 2

Please enter the Rent Rate of your vehicle : 150

Select your vehicle's feature

01) Touch 'n Go	02) Smart Tag	03) Bluetooth
04) GPS	05) Child Seat	06) Pet Friendly
07) No Smoking	08) Rear Vision Camera	

You may select more than 1 feature. Please separate your selection with comma. IE: 1,2

Your selection |> 1,2

Starting date that your vehicle is available for reserved/rent (dd/mm/yyyy) : 20/09/2021

Ending date that your vehicle is available for reserved/rent (dd/mm/yyyy) : 20/02/2022

### Preview

Vehicle Info		Rent Info	
Vehicle ID	: CA48	Location	: Bangsar
Plate Number	: WLA 1231	Rent Rate	: RM 150.00
Vehicle Type	: Coupe	Feature	: Touch 'n Go, Smart Tag
Vehicle Make	: Toyota	Available Day	: 20/09/2021 - 20/02/2022
Vehicle Model	: Artist		
Year Purchase	: 2002		
Engine Size	: 1.50		
Transmission	: Auto		
Fuel Type	: Coupe		
Seats	: 5		

Do you confirm your input? (Y/N) :

They can preview a list of information that they entered and then confirm whether their input is correct. If it is confirmed, then the new vehicle will be added successfully.

## View Vehicle

```

                                Staff
                                =====

+-----+
|           1. Add Car           |
+-----+
|           2. View Car         |
+-----+
|           0. Return           |
+-----+

Your Selection |> 2

-----
01. | Vehicle ID      : CA01          | Model          : Saga          |
    | Make            : Proton        | Type           : Sedan          |
    | Year Purchase   : 2020          | Rent Rate (per day) : RM 190.00    |
-----
02. | Vehicle ID      : CA02          | Model          : Aruz          |
    | Make            : Perodua       | Type           : SUV           |
-----

-----
47. | Vehicle ID      : CA47          | Model          : Hilux          |
    | Make            : Toyota        | Type           : Pickup Truck   |
    | Year Purchase   : 2020          | Rent Rate (per day) : RM 200.00    |
-----
48. | Vehicle ID      : CA48          | Model          : Artist        |
    | Make            : Toyota        | Type           : Coupe          |
    | Year Purchase   : 2002          | Rent Rate (per day) : RM 150.00    |
-----

Please enter the vehicle id you want to view : |
```

If the 'View Car' option is selected, a list of vehicles in the system will be shown, then the staff can pick which vehicle to be viewed in detail.

Please enter the vehicle id you want to view : CA48

Vehicle Info		Rent Info	
Vehicle ID	: CA48	Location	: Bangsar
Plate Number	: WLA 1231	Rent Rate	: RM 150.00
Vehicle Type	: Coupe	Feature	: Touch 'n Go, Smart Tag
Vehicle Make	: Toyota	Available Day	: 20/09/2021 - 20/02/2022
Vehicle Model	: Artist		
Year Purchase	: 2002		
Engine Size	: 1.50		
Transmission	: Auto		
Fuel Type	: Coupe		
Seats	: 5		



## Update Vehicle

```

                                Staff
                                =====

+-----+
|           1. Update           |
+-----+
|           2. Delete           |
+-----+
|           0. Return           |
+-----+

Your Selection |> 1

                                Staff
                                =====

+-----+
|       1. Vehicle details       |
+-----+
|       2. Renting details       |
+-----+
|           0. Return           |
+-----+

Please select the category that you want to update.

Your Selection |> 2
```

The staff can also choose to update certain categories of details, such as the vehicle details or renting details.

```

                                Staff
                                =====

+-----+
|           1. Vehicle details           |
+-----+
|           2. Renting details           |
+-----+
|           0. Return                     |
+-----+

Please select the category that you want to update.

Your Selection |> 1

-----Update Vehicle Details-----
| 1. Plate Number      | 2. Type          | 3. Make/Brand      |
+-----+
| 4. Model             | 5. Year          | 6. Engine Size     |
+-----+
| 7. Transmission      | 8. Fuel Type     | 9. Seats           |
+-----+
| 0. Return            |                  |
+-----+

Your Selection |> 9

Old Seats Available of your vehicle : 5
Please enter new Seats Available : 6
Your new Seats Available is : 6

Do you confirm your changes? (Y/N) : y

Your have successfully updated seats !
Press any key to continue : |

```

The staff can choose to update a specific vehicle details, such as the plate number, etc. The existing details will be displayed and then the user will be prompted to enter the new information.

## Delete Vehicle

Please enter the vehicle id you want to view : CA48

Vehicle Info		Rent Info	
Vehicle ID	: CA48	Location	: Bangsar
Plate Number	: WLA 1231	Rent Rate	: RM 150.00
Vehicle Type	: Coupe	Feature	: Touch 'n Go, Smart Tag
Vehicle Make	: Toyota	Available Day	: 20/09/2021 - 20/02/2022
Vehicle Model	: Artist		
Year Purchase	: 2002		
Engine Size	: 1.50		
Transmission	: Auto		
Fuel Type	: Coupe		
Seats	: 5		

### Staff

1. Update
2. Delete
0. Return

Your Selection | > 2

Are you confirm to delete selected vehicle info? (Y/N) : 2  
Invalid input, please enter again

Are you confirm to delete selected vehicle info? (Y/N) : y

Your have successfully delete selected vehicle info !  
Press any key to continue :

After selecting the vehicle to view in detail, the staff can also choose to delete that particular vehicle. A confirmation message will be displayed for the staff to confirm the deletion.

## View Profile (Staff)

```

                                Staff
                                =====

+-----+
| 1. Manage Vehicle |
+-----+
| 2. My Profile     |
+-----+
| 3. View Report    |
+-----+
| 0. Log Out        |
+-----+

Your Selection |> 2

+-----+
| Profile |
+-----+
| Staff ID | S001 |
+-----+
| Position | Junior Admin |
+-----+
| UID      | UID1000 |
+-----+
| Name     | Vickham Foo |
+-----+
| IC Number | 02041610777 |
+-----+
| Address  | Selangor, Bangi |
+-----+
| Email    | vickhamfoo@gmail.com |
+-----+
| Phone Number | 0123456123 |
+-----+
| Activity Performed | Delete Vehicle |
+-----+

Press any key to continue :
```

The staff can choose to view their own profile to check their personal details such as their staff ID.

## Report

### Staff

=====		
+-----+		
	1. Manage Vehicle	
+-----+		
	2. My Profile	
+-----+		
	3. View Report	
+-----+		
	0. Log Out	
+-----+		

Your Selection |> 3

### Vehicle Type Ranking Report in September 2021

Vehicle Type	No. of Vehicles Reserved	Revenue Earned(RM)
Car	5	23320.00
-----	---	-----
Sedan	0	
Coupe	0	
SUV	2	
Minivan	1	
Pickup Truck	1	
Others	1	
Motorbike	0	0.00
-----	---	-----
Standard	0	
Touring	0	
Scooters	0	
Mopeds	0	
Enduro	0	
Others	0	
Recreational Vehicle	0	0.00
-----	---	-----
Class A RVs	0	
Class B RVs	0	
Class C RVs	0	
Truck Campers	0	
Others	0	

2021-09-17

The staff can also choose to view a report regarding the system in terms of how many vehicles reserved in a particular month.

```

Simple Bar Chart for Vehicle Type Ranking Report in September 2021

No. of Vehicles Reserved
  /\
 7 |
 6 |
 5 |      * * *
 4 |      * * *
 3 |      * * *
 2 |      * * *
 1 |      * * *
  +-----> Vehicle Type
      Car      Motorbike      Recreational Vehicle

```

Press any key to continue :

A simple bar chart will also be displayed to indicate the report data in a graphical way.

## Logout

```

                                Main Menu
=====

+-----+
|          1. Rent Vehicle          |
+-----+
|          2. Reservation Status    |
+-----+
|          3. My Account            |
+-----+
|          0. Log Out               |
+-----+

Your Selection |> 0

Are you sure you want to Log Out(Y/N)? Y

You have successfully logged out

Thanks for using MyKL.

Wish you have a nice day.
```

Renter - Log Out

```

                                Staff
=====

+-----+
|          1. Manage Vehicle          |
+-----+
|          2. My Profile              |
+-----+
|          3. View Report             |
+-----+
|          0. Log Out                 |
+-----+

Your Selection |> 0

Are you sure you want to Log Out (Y/N)? Y

You have successfully logged out

Thanks for using MyKL.

Wish you have a nice day.

```

#### Staff - Log Out

By selecting the option of 0, users either renter or staff are able to logout from the session. A confirmation message will be asked to get confirmation from the users. If the user confirms to logout, then a successful message and thank you message will be displayed.



## Shut Down

```
Vehicle Rental - My KL
=====

+-----+
|          1.Renter          |
+-----+
|          2.Staff           |
+-----+
|          3.Exit            |
+-----+

Your Selection |> 3

Are you sure you want to Exit(Y/N)? Y

System successfully shut down.

Brought to you by Buddhism Spirit Team.
```

To shut down the system, users have to select option 3 from the system main menu. A confirmation message will be displayed and prompt for users confirmation. If the users confirm to shut down then a successful message will be displayed.