

# Mates-Rates Rent-a-Car (MRRC) User Manual -

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This program has many functionalities, and will allow the operator to do a number of processes to manage a vehicle rental management system. It is important to follow the instructions detailed in the manual carefully so that the program behaves as expected.

## Building

To build the code for this program, navigate to the MRRC.sln file in the root folder of the project and open it with Visual Studio. In the Solution Explorer toolbar, expand the MRRC solution, right click the MRRC project and select Build

## Running

To run the program, press the f5 key on the keyboard after building the project. This will open a new console window from which the program will run.

## Custom Files

By default, the program data is stored within appropriately labelled comma-separated value (CSV) files located in Data folder (inside the root folder). Specifically:

- fleet.csv - Vehicle fleet data
- customers.csv - Customer information data
- rentals.csv - Vehicle and customer rental data

## Program Usage

This program encompasses a hierarchal set of menus. The program starts at the Main menu and depending on the listed character option pressed, you will be sent to different sub-menus that handle a specific aspect of the system.

Within the greeting message of the program, it states you can press Esc to quit at any menu or backspace to go to the previous menu. Press the Q key to return to the parent menu. Press the H key to return home to the main menu.

## Main Menu

When you enter the program the main menu and the greeting message will be displayed.

After you press a character key (a, b or c) the program will enter the corresponding sub-menu (there is no need to press enter on any of the menus, the program is expecting only a single character).

### **Customer Management Menu**

When you're in the Customer Management menu, there are four options provided which you can navigate to:

- a) Display customer
- b) New Customer
- c) Modify Customer
- d) Delete Customer

Pressing A will lead to another menu which will ask for a border and table style, which once provided – will display the customers list from the csv file stored in the Data folder.

Pressing B will prompt the operator to add a new customer. This will require writing down the customer fields to add that will undergo validation checking, so as to ensure that the fields are entered correctly.

Pressing C will be similar to B, although it will first require the ID of the customer to modify. After providing the customer ID, the interface will prompt fields of the customer to change.

Pressing D will require the ID of the customer to delete. If the customer ID is currently renting a vehicle, the interface will reject the deletion.

### **Fleet Management Menu**

When you're in the Fleet Management menu, there are four options provided which you can navigate to:

- a) Display Fleet
- b) New Vehicle
- c) Modify Vehicle
- d) Delete Vehicle

Pressing A will lead to another menu which will ask for a border and table style, which once provided – will display the vehicle list from the csv file stored in the Data folder.

Pressing B lead to a new menu, asking for the vehicle type add: standard, commercial, luxury, family, or economy. After that, the interface will ask the user to choose add the default or full vehicle. Default vehicle will only require 4 fields, whereas full will require all. Thereafter, the interface will require the operator to write down the vehicle fields which will undergo validation checking, so as to ensure that the fields are entered correctly.

Pressing C will be similar to B, although it will first require the registration of the vehicle to modify. If the registration is currently renting a vehicle, modification on this registration will be rejected. After providing the registration, the interface will prompt fields of the vehicle to change, either full or default fields.

Pressing D will require the registration of the vehicle to delete. If the registration is currently renting a vehicle, the interface will reject the deletion.

### **Rental Management Menu**

When you're in the Rental Management menu, there are four options provided which you can navigate to:

- a) Display Rental
- b) New Rental
- c) Modify Rental
- d) Delete Rental

Pressing A will lead to another menu which will ask for a border and table style, which once provided – will display the rental list from the csv file stored in the Data folder.

Pressing B will lead back to the Main MRRC home since this section will be due for Part B

Pressing C will lead back to the Main MRRC home since this section will be due for Part B

Pressing D will lead back to the Main MRRC home since this section will be due for Part B

### **End Of MRRC Menu**

Once the user has pressed a key on the last MRRC screen, the end of menu screen will prompt which will provide a message:

Press H go to the main menu home, Q to parent menu, Esc to escape,  
Backspace to go back