

Statement of Completeness (Template): Mates Rates Rent-a-Car

This statement of completeness will need to *accurately* state the functionality which has been implemented. Use this checklist of program functionality as you complete your project.

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Functionality Checklist

In the following section, you are required to mark which functionality you have implemented. In the column on the right please mark 'Y' where you have completed this functionality, and 'N' where you have not. Please fill in any additional text boxes requested, and please note any limitations or bugs in the box at the end of each section. You may expand the table if you need more room for comments.

File I/O		
File location	<i>If your solution does not load files from the specified location in the specification, please note here where the files are stored.</i> Customers: Data/customer.csv Fleet: Data/fleet.csv Rentals: Data/rentals.csv	
Read	CRM	Y
	Fleet	Y
	Rentals (must meet above criteria first)	Y
Write	CRM (must be able to read CRM first)	Y
	Fleet (must be able to read CRM first)	Y
	Rentals (must meet above criteria and read Rentals first)	Y
Comments	None	

Please note that your assignment must be able to load the files in the same format as provided in the example files.

CRM And Fleet Functionality

CRM	View customers	Y
	Add customer - With validation – all fields are valid options, no repeated customer ID	Y Y
	Remove customer - With validation – only if not renting vehicle	Y Y
	Edit customer - With validation – same as add	Y Y
Fleet	View vehicles	Y
	Add vehicle - With validation – all fields are valid options, and there is no repeated registrations	Y Y
	Remove vehicle - With validation – only if not already being rented	Y Y
	Edit vehicle - With validation – same as add	Y Y
	<i>Extra marks – implemented vehicle classes with inheritance</i> Please include a brief explanation of the inheritance here if implemented: For the vehicles class. There is 4 derived class named FamilyVehicle, EconomyVehicle, LuxuryVehicle and CommercialVehicle. These classes take in a default grade enumeration, and provides specific defaulted attributes in the constructor of sub-class vehicle type.	Y
Renting	View rented vehicles report. This should show the vehicle, customer, and the daily cost of the rental.	TBD
	Rent vehicle. This should show the total cost of the rental. - With validation – only if vehicle and customer exist, vehicle is not already being rented, and customer is not already renting	TBD TBD
	Return vehicle. - With validation – only if vehicle was being rented by the customer	TBD TBD

Comments	Small bug when displaying fleet table in the console using default console window dimensions. When modifying the Registration or ID of a vehicle or customer, the operator can still choose to retain the new registration/ ID fields as the old value, as it does not compromise uniqueness constraints. E.g., customer old ID 10 - > new ID 10 won't have any duplicates in the customers list.
Changes from spec.	There is an additional table and border menu class which allows the operator to choose a different table and border style when displaying the csv files to the console.

Search Functionality		
Possible to Query - Simple	Any - Be able to see any unrented vehicle in the fleet	TBD
	Single attribute query - Example: o Red	TBD
	A choice between two attributes (disjunction) - Example: o Family OR Luxury	TBD
	A combination of two attributes (conjunction) - Example: o Family AND Luxury	TBD
Intermediate	A choice of any number of attributes (disjunction) - Example: o Family OR Luxury OR Red	TBD
	A combination of any number of attributes (conjunction) - E.g.: o Luxury AND Red	TBD
Advanced	A combination of any number of attributes, using both AND and OR, where the operators AND and OR should have the same priority (precedence) - E.g.: o Economy OR Family AND 4-Cylinders	TBD

<i>Ninja (extra marks)</i>	A combination of any number of attributes, using AND and OR, with AND having a higher priority than OR, supporting parenthesis to resolve priority - E.g.: o ((GPS AND Sunroof) OR (Red OR Green)) AND Commercial OR Luxury	TBD
Comments	<i>Please note any limitations, bugs, logical errors, and/or run-time errors here</i>	

Program Transcript

You are also required to attach a full transcript demonstrating all of the features of your program (you can use the checklist above as a basis). You will practice this in a future workshop. You must include this transcript as part of your submission. Please state the name of the transcript file.

Transcript File Name: n10132767Transcript.txt

Statement of Completeness: MRRC

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