

## 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 to provide more room for comments.**

File I/O		
<b>File location</b>	<i>If your solution does not load files from the specified location in the specification, please note here where the files are stored.</i> <b>Customers:</b> Data/customer.csv <b>Fleet:</b> Data/fleet.csv <b>Rentals:</b> Data/rentals.csv	
<b>Read</b>	CRM	Y/N
	Fleet	Y/N
	Rentals (must meet above criteria first)	Y/N
<b>Write</b>	CRM (must be able to read CRM first)	Y/N
	Fleet (must be able to read CRM first)	Y/N
	Rentals (must meet above criteria and read Rentals first)	Y/N
<b>Comments</b>	There is currently no way to choose a different location to save to.	

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

<b>CRM And Fleet Functionality</b>		
<b>CRM</b>	View customers	<b>Y/N</b>
	Add customer - With validation - all fields are valid options, no repeated customer ID	<b>Y/N</b> <b>Y/N</b>
	Remove customer - With validation - only if not renting vehicle	<b>Y/N</b> <b>Y/N</b>
	Edit customer - With validation - same as add	<b>Y/N</b> <b>Y/N</b>
<b>Fleet</b>	View vehicles	<b>Y/N</b>
	Add vehicle - With validation - all fields are valid options, and there is no repeated registrations	<b>Y/N</b> <b>Y/N</b>
	Remove vehicle - With validation - only if not already being rented	<b>Y/N</b> <b>Y/N</b>
	Edit vehicle - With validation - same as add	<b>Y/N</b> <b>Y/N</b>
	<i>Extra marks - implemented vehicle classes with inheritance</i> Please include a brief explanation of the inheritance here implemented:	<b>Y/N</b>
<b>Renting</b>	View rented vehicles report. This should show the vehicle, customer, and the daily cost of the rental.	<b>Y/N</b>
	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	<b>Y/N</b> <b>Y/N</b>
	Return vehicle. - With validation - only if vehicle was being rented by the customer	<b>Y/N</b> <b>Y/N</b>
<b>Comments</b>	The defaults for vehicles currently does not update depending on grade of the vehicle	
<b>Changes from spec.</b>	No ToCSVString methods, this is handled elsewhere, no GetAttributeList or ToString methods (not used anywhere) Some properties have slightly different names, made more sense to me	

Search Functionality		
<b>Possible to Query Simple</b>	Any	Y/N
	- Be able to see any unrented vehicle in the fleet	
	Single attribute query - Example: o Red	Y/N
	A choice between two attributes (disjunction) - Example: o Family OR Luxury	Y/N
	A combination of two attributes (conjunction) - Example: o Family AND Luxury	Y/N
<b>Inter-mediate</b>	A choice of any number of attributes (disjunction) - Example: o Family OR Luxury OR Red	Y/N
	A combination of any number of attributes (conjunction) - E.g.: o Luxury AND Red	Y/N
<b>Advanced</b>	A combination of any number of attributes, using both AND and OR, where the operators should have the same priority (precedence) - E.g.: o Economy OR Family AND 4-Cylinders	Y/N
<b>Ninja (extra marks)</b>	A combination of any number of attributes AND and OR, with AND having a higher priority OR, supporting parentheses to resolve priority - E.g.: o ((GPS AND Sunroof) OR (Red OR Green)) AND Commercial OR Luxury	Y/N
<b>Comments</b>	Passing any text (even invalid text) after the end of the query will not get parsed, but will also not throw any errors.	

### 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. Please include this transcript as part of your submission. Please state the name of the transcript file.**

**Transcript File Name:** /transcript.txt