Name or identifier	R1. Register vehicle		
Summary	The information system must allow the user to register a new or used vehicle and its documentation. The vehicles can be motorcycles or cars. The cars can be gasoline cars, electric cars or hybrid cars. The data registered depends on the type of vehicle.		
	Input name	Data type	Selection or repetition condition
	vehicleType	int	Repeat while vehicleType is different from 1 or 2
	basePrice	double	Repeat while basePrice is less than 0
	brand	String	The string must not be empty
	model	int	Repeat while model is less than 0
	cylinderCapacity	int	Repeat while the number is less than 0
	mileage	int	Enter if the vehicle is used
Inputs	licensePlate	String	Enter if the vehicle is used
	pcPrice	Double	Enter if the vehicle is used
	pcYear	Integer	Enter if the vehicle is used
	tmPrice	Double	Enter if the vehicle is used
	tmYear	Integer	Enter if the vehicle is used
	gasEmitted	Double	Enter if the vehicle is used
	soatPrice	Double	Enter if the vehicle is used
	soatYear	Integer	Enter if the vehicle is used
	coverageAmount	Double	Enter if the vehicle is used
General activities	<ul> <li>Ask the user for data</li> <li>Register the vehicle and its documentation in the system</li> <li>Show a message to the user</li> </ul>		

Result	The vehicle is registered in the vehicle list.		
Outputs	Output name	Data type	Selection or repetition condition
Outputs	vehicle	Vehicle	

Name or identifier	R2. Calculate selling price		
Summary	The information system must allow the user to find a vehicle and the calculate its selling price. The selling price will change according to the type of vehicle.		
Inpute	Input name	Data type	Selection or repetition condition
Inputs	id	String	
General activities	<ul> <li>Ask the user for the vehicle id</li> <li>Find the vehicle by id</li> <li>Calculate the selling price of the found vehicle</li> <li>Show the selling price calculated</li> </ul>		
Result	The selling price is calculated and displayed if the vehicle exists.		
Outputs	Output name	Data type	Selection or repetition condition
Outputs	sellingPrice	double	If the vehicle exists.

Name or identifier	R3. Generate report		
Summary	The information system must allow the user to generate a report of all vehicles by type, fuel type or usage.		
	Input name	Data type	Selection or repetition condition
Inputs	option	int	Repeat while the option is different from 1, 2 or 3.
General activities	<ul> <li>Ask the user for the option</li> <li>Find the vehicles that meet these criteria</li> <li>Return the vehicle information.</li> <li>Show the information of the vehicles found.</li> </ul>		

Result	The information of the vehicles that meet these criteria is displayed.		
Outputs	Output name	Data type	Selection or repetition condition
Outputs	report	String	

Name or identifier	R4. Show document status		
Summary	The information system must allow to show the document status of a vehicle. The document status contains the number of the document. This number is decoded from its image.		
Innuts	Input name	Data type	Selection or repetition condition
Inputs	id	String	
General activities	<ul> <li>Ask the user for the vehicle id</li> <li>Find the vehicle by id</li> <li>Return the report with the document status of the vehicle.</li> <li>Show the document status.</li> </ul>		
Result	The document status is displayed if the vehicle exists.		
Outputs	Output name	Data type	Selection or repetition condition
Outputs	documentStatus	String	If the vehicle exists

Name or identifier	R5. Show parking map			
Summary	The information system must allow to show the map of the parking lot. The map shows the empty and occupied spaces. The green squares are the available parking spots and the red squares are the taken parking spots. If the parking lot is full, the system shows a message.			
Inputs	Input name Data type Selection or repetition condition			
General activities	<ul> <li>Find the empty and occupied spaces.</li> <li>Represent these spaces with red and green squares</li> <li>Show the map of the parking lot.</li> </ul>			
Result	The map is shown.			

Outputs	Output name	Data type	Selection or repetition condition
	map	String	

Name or identifier	R6. Generate parking report			
Summary	The information system must allow the user to generate a report of the parking lot occupancy. The report can be by time range, newest/oldest vehicle or occupancy percentage.			
	Input name Data type Selection or reper			
Inputs	option	int	Repeat while the option is different from 1, 2 or 3.	
General activities	<ul> <li>Ask the user for the option</li> <li>Return the information according to the criterion.</li> <li>Show the information.</li> </ul>			
Result	The parking lot report is displayed			
Outoute	Output name	Data type	Selection or repetition condition	
Outputs	parkingReport	String		