|  |
| --- |
| CRM |
| -customer: List<Customers>  -crmFile: string |
| +AddCustomer(Customer customer)  +RemoveCustomer(int ID, Fleet fleet)  +GetCustomers()  +GetCustomer(int ID)  +DoesCustomerExist(int ID)  +SaveToFile()  +LoadFromFile() |

|  |
| --- |
| Vehicle |
| -VehicleRego: string  -make: string  -model: string  -year: int  -vehicleGrade: VehicleGrade  -numSeats: int  -transmission: TransmissionType  -fuel: FuelType  -GPS: bool  -sunRoof: bool  -dailyRate: double  -colour: string |
| +ToCSVString()  +ToString()  +GetAttributeList()  +FullDescription |

|  |
| --- |
| Customer |
| -customerID: int  -title: string  -firstName: string  -lastName: string  -gender: Gender  -DOB: DateTime |
| +ToCSVString()  +ToString() |

|  |
| --- |
| Fleet |
| -vehicles: List<Vehicle>  -rentals: Dictionary<string, int>  -fleetFile: string  -rentalFile: string |
| +DoesVehicleExist(string reg)  +DisplayRentals()  +DisplayVehicle(string registration)  +AddVehicle(Vehicle vehicle)  +RemoveVehicle(string registration)  +GetFleet()  +GetFleet(bool rented)  +IsRented(string registration)  +IsRenting(int customerID)  +RentedBy(string registration)  +RentVehicle(string registration, int customerID)  +ReturnVehicle(string registration)  +SaveVehicleToFile()  +SaveRentalsToFile()  +LoadVehiclesFromFile()  +LoadRentalsFromFile()  +SearchVehicle()  +ParseText(string input)  +Shunting\_Yard(List<Vehicle\_Token> input)  +Evaluate(List<Vehicle\_Token>() |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | RightBracket\_Token | |  | | + ToString() | | |  | | --- | | LeftBracket\_Token | |  | | + ToString() | | |  | | --- | | Detail\_Token | | -detial: string | | + ToString() | | |  | | --- | | Operator\_Token | | -name: string  -Priority: int | | + ToString() | |

Vehicle\_Token