**public class mainProgram**

|  |
| --- |
| mainProgram |
| - fileLocationCustomers: string  - filelocationFleets: string  - filelocationRentals: string  - CRMMain: CRM  - fleetMain: Fleet  +NOTRecording: bool |
| + Main() |

**public class Fleet**

|  |
| --- |
| Fleet |
| - vehiclesDatabase: List<Vehicle>  - rentals: Dictionary<string, int>  + fleetOpen: bool  + rentalsOpen: bool  + fileOpen: bool |
| + REGOExisiting()  + checkIfRenting()  + AddVehicle()  + GetVehicle()  + VehicleCurrentAmount()  + VehicleCapactity()  + GetVehciles()  + DELETEVehicle()  +SavVEHICLEDatabase()  +LoadVEHICLEDatabase()  +saveFleetDatabase()  +loadRentalDatabase()  +RentingLength()  +COMMITRENT()  +ReturnRentals()  +GetVehicleRego()  +DELETERental() |

**public class CRM**

|  |
| --- |
| CRM |
| - CustomerDataBase: List<customer>  +fileOPEN: bool |
| + AddCustomer()  + REMOVECustomer()  + GetCustomers()  - CHECKID()  + numOfEntrys()  +GetCustomer()  + ModifyCustomer()  + CustDatabaseCap()  + SaveToFile()  + LoadFromFile() |

**public class Vehicle**

|  |
| --- |
| Vehicle |
| - registration: string  - Vehcilegrade: int  - make: string  - model: string  - year: int  - numSeats: int  - transmission: int  - Fueltype: int  - GPS: bool  - sunRoof: bool  - dailyRate: double  - colour: string  + SeatsDeafult: int  + TransDeafult: string  + FuelDeafult: string  - GPSDeafult: bool  - SunDeafult: bool  - RateDeafult: double  - ColourDeafult: string  - VehicleGrade: enum  - TransmissionTYpe: enum  - FuelType: enum |
| +GetRego()  +ToCSVString()  +GetAttributeList()  +UpdateExisitng()  -StringTOBOOL()  -BoolTOString()  -BOOLScanThrough() |

**public class customer**

|  |
| --- |
| customer |
| - customerID: int  - title: int  - firstName: string  - lastName: string  - gender: int  - DOB: DateTime  - Title: enum  - Gender: enum |
| + GetName()  + SetID()  +GetDOB()  +GetID()  +GetEverything()  +UpdateCustomer()  +ToCSVString() |

**public class display**

|  |
| --- |
| display |
| - symbol: string  - borderSize: int  - screenSize: int  + Location: enum  - ErrorType: enum  - ValidInputsMain: enum  - ValidInputsCustMain: enum  - ValidInputsCustModify: enum  - ValidInputsVehicleMain: enum  - ValidINputsSaveLoad  - ValidInputsAdjustVeh: enum  - ValidInputsLists: enum  - Title: enum  - Gender: enum |
| + Heading()  + Border()  + BasicBody()  + bottomScreenBackfill()  + ErrprMessage()  + UserPrompt()  + CustomerManagementInitialScreen()  + deleteScreen()  +CustomerModifyScreen()  + ListInputChecks()  +ListofInformation()  +INFOCheck()  +CustomerAddScreen()  +MainScreen()  +SaveLoad()  +DatabaseManagement()  +VehicleManagmentInitialScreen()  +VehicleAddScreen()  + CheckifValidVeh()  + VehicleModifyScreen()  + SearchVehicles()  + ListOfReasults()  - CheckQuery()  + RentingMain()  + RentChange()  +RentalGrabCust()  +RentalGrabVeh()  +ListReport()  +FinalConfirmation() |

**public class SearchParameters**

|  |
| --- |
| SearchParameters |
|  |
|  |

**public class searchingAlgorithim**

|  |
| --- |
| searchingAlgorithim |
| -postFix: List<SearchParameters>  -prefix: List<SearchParameters>  -operationStack: List<SearchParameters> |
| +PARSERequest()  +ConvertToTokens()  -ShuntingYard()  -GetResults()  +ISBRACKET()  +ISEMPTY() |