UML Class Diagrams - Major Programming Assignment No. 2

Drafted by: Patrick Hines

Fleet	
-fleetName: String	Name of the current fleet
-fleetList: ArrayList<Vehicle>	All vehicles within the current fleet
+getFleetName(): String	Returns the name of the fleet
+setFleetName(string givenFleetName): void	Changes the name of the fleet to the user's specification
+getNumVehicles(): int	Returns the number of vehicles in the fleet
+getVehicle(int index): Vehicle	Returns a specific vehicle
+setVehicle(Vehicle givenVehicle, int index): void	Places in a vehicle at a specific position
+addVehicle(Vehicle givenVehicle): void	Appends a vehicle to the end of the fleet
+loadFleet(String inputFileName):void	Loads in saved data to the class
+saveFleet(String outputFileName):void	Saves all data in the class
+getVehicleList(Class vehicleClass):ArrayList<Vehicle>	Returns an ArrayList of all vehicles within the class
Fleet()	No-Argument Constructor
Fleet(String fleetName)	Constructor that will load in a specific fleet name
+toString():String	Returns all data in the class as a String

Vehicle	
#make: String	The make of the vehicle
#model: String	The model of the vehicle
#vin: String	The vehicle identification number (VIN)
#year:int	The year that the vehicle was made
+setMake(String givenMake):void	Sets a specific make to the vehicle
+setModel(String givenModel):void	Sets a specific model to the vehicle
+setVin(String givenVin):void	Sets a specific VIN to the vehicle
+setYear(int givenYear):void	Sets a specific year to the vehicle
+getMake():String	Returns the make of the car as a String
+getModel():String	Returns the model of the car as a String
+getVin():String	Returns the VIN of the car as a String
+getYear():int	Returns the year that the car was made as an integer
Vehicles()	No-Argument Constructor
Vehicles(String make, String model, String vin, int year)	Constructor that sets the make, model, VIN and year to specific values
+toString():String	Returns all data in the class as a String

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Van	
#clearanceHeight: float	The clearance height of the van
#numWindows: int	The number windows in the van
+setClearanceHeight(float givenClearanceHeight): void	Sets the clearance height of the van to a specific value
+setNumWindows(int givenNumWindows):void	Sets number of windows in the van to a specific value
+getClearanceHeight(): float	Returns the clearance height of the van
+getNumWindows(): int	Returns the number of windows in the van
Van()	No-Argument Constructor
Van(float givenClearanceHeight, int givenNumWindows)	Constructor that sets the clearance height and number of windows in the van to specific values
+toString(): String	Returns all data within the class as a String

Automobile	
-hybrid: boolean	Holds whether or not the automobile is a hybrid
-maxPassengers: int	The maximum number of passengers the automobile can hold
-trunkSpace: float	The size of space within the trunk of the automobile
+setHybrid(boolean isHybrid):void	Sets the value of 'hybrid' to true or false
+setMaxPassengers(int givenMaxPassengers):void	Sets the maximum number of passengers to a specific value
+setTrunkSpace(float givenTrunkSpace):void	Sets the size of space in the trunk of the automobile
+getHybrid(): boolean	Returns the boolean value of 'hybrid'
+getMaxPassengers(): int	Returns the maximum number of passengers as an integer
+getTrunkSpace(): float	Returns the size of space in the trunk as a float
Automobile()	No-Argument Constructor
Automobile(boolean isHybrid, int givenMaxPassengers, float givenTrunkSpace)	Constructor that sets hybrid, maxPassengers, and trunkSpace to specific values
+toString():String	Returns all data in the class as a String

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PassengerVan	
-numSeatRows: int	The number of rows of seats
-maxPassengers: int	The maximum number of passengers
-dvdPlayer: boolean	Holds whether or not there is a DVD player within the passenger van
+setNumSeatRows(int givenNumSeatRows): void	Sets a specific value to numSeatRows
+setMaxPassengers(int givenMaxPassengers): void	Sets a specific value to maxPassengers
+setDvdPlayer(boolean isDvdPlayer): void	Sets a specific truth value to dvdPlayer
+getNumSeatRows(): int	Returns the number of rows of seats as an integer
+getMaxPassengers: int	Returns the maximum number of passengers as an integer
+getDvdPlayer(): boolean	Returns the truth value of dvdPlayer
+PassengerVan()	No-Argument Constructor
+PassengerVan(int givenNumSeatRows, int givenMaxPassengers, boolean isDvdPlayer)	Constructor that sets numSeatRows, maxPassengers, and dvdPlayer to specific values
+toString(): String	Returns all data in the class as a String

CargoVan	
-maxLoad: float	The weight of the maximum load
-cargoArea: float	The size of the cargo area
+setMaxLoad(float givenMaxLoad): void	Sets the maximum load to a specific value
+setCargoArea(float givenCargoArea): void	Sets the cargo area in the van to a specific value
+getMaxLoad(): float	Returns the maximum load
+getCargoArea(): float	Returns the cargo area size
CargoVan()	No-Argument Constructor
CargoVan(float givenMaxLoad, float givenCargoArea)	Constructor that sets the maximum load and size of the cargo area to specific values
+toString(): String	Returns all data within the class as a String