This document explains how to set and retrieve the user selected owned vehicle from these ones:
– Utilitary car (0)
– Sedan car (1)
– Sport car (2)
– SUV (Sport Utility Vehicle) (3)
– MPV (Multi Purpose Vehicle) (4)
– Motorbike (5)

These vehicle types are defined in an enumeration "vehicleTypes" in StatsModule.

Setting a vehicle type for each user, statistics can be calculated much more precisely and accurately especially regarding saved co2 emissions and saved fuel liters.

When is needed to calculate user savings (emissions and fuel liters), reference values for user car emissions (g/km) and user car fuel consumption (km/l) are read from the database.

These fields in the database are set when the user defines his vehicle type from the proposed ones.

To set the user vehicle type who he uses usually, should be called this method located in StatsModule:

public static bool setUserVehicleType(int userID, int vehicleType)

which returns a boolean about the operation status: True = operation succeeded, False = operation failed (nothing is written in the database). An example of invocation for this method:

StatsModule.setUserVehicletype(100, StatsModule.SedanCarVehicleType);

In this example the user 100 set his owner or preferred car as a sedan car and each time the system had to calculate statistics about him the values for his car co2 emissions and fuel consumption used are the sedan reference ones.

To retrieve from database the user set vehicle type you should call this method located in StatsModule:

public static int getUserVehicleType(int userID)

which returns an integer representing the user preferred vehicles. This integer has to be compared with the vehicleTypes enumeration to decode the selected vehicle type.

Each vehicle type has a specified co2 emissions (g/km) and fuel consumption (km/l) reference values which are defined in a xml file called DataFile.xml located in App_data.
These reference values can be changed without recompiling or stopping the application tripLOA.

In this xml file are contained other configuration parameters also, such as the number of days after a trip departure date pending feedbacks for that trip are visible and can be left or the reference value for the fuel cost per liter....