Use case: Drive car

Partecipating Actors: Registered User  
 Car

Entry Condition: The car is ignited by the registerd user.

Flow of Events:

* The state of the car changes from “rented” to “drived”.
* The system starts the calculation of the fee (x per min).
* The computer shows the ongoing fee.
* The registered user starts driving.
* The car control how many passengers are on board (by sensors) and send the information to the system.
* The registered user park the car in a safe area (recognized by the car’s GPS).
* The registered user turn off the car.
* The registered user and all passengers leave the car.
* The car check (by sensors) that nobody is in the car.
* The system lock the car when nobody is inside.
* The system asks to the registered user if he want to end the reservation.
* The computer stop the calculation of the fee.
* The computer apply the discounts one minute after the end of the reservation (-10% if there is more than one passenger, -20% if the battery has more than 50% of the charge, -30% if the car is on a special area and is on charge, +30% if the car has less than 20% of charge or is 3Km far from the nearest plug station).

Exit Condition: The use case terminate when, at the same time, the car is locked and the fee is completely calculated, with discounts if is necessary.

Exceptions:

* The registered user has the possibility to select the destination to have the navigator support, implemented in the computer, and may choose the Money Saving Option (look at the related use case).
* While driving, a crash happens or something with the car go wrong. The registered user call the assistance to solve any kind of problem.
* The car is parked and turned of in a non safe area. The calculation of the fee will not stop and the car isn’t still reservable by other registered users. The registered user have however the possibilità to open the reserved car.
* The registered user say he want not end the reservation, even if the car is parked in a safe area. The fee calculation is still going and the user has the possibility to open the car.