1. Clients are allowed to register to the system giving their credentials and payment information
   1. The system is able to control if credentials are correct
   2. The system is able to control if payment informations are correct
   3. The system is able to confirm registration and send a password to the new client
2. Registered clients are able to see through an interactive map the positions of the available cars near a specific address (current position or inserted)
   1. The system is able to get the position from the GPS or from the position input
   2. The system knows the actual position of all electric cars registered
   3. The system can generate a map with a marker for each available car in the selected zone
3. Registered clients can reserve a single electric car for at most an hour before picking it up
   1. The system is able to modify the state of the electric car (in this case from “available” to “reserved”). This is necessary also to content goals 4-5-7-8
   2. The system is able to modify the client state (in this case from “appiedato” to “reserving”). This is necessary also to content goals 4-5-7-8
   3. The system is able to remember which client reserves which car by storing a relationship between the car and the client
   4. The system is able to keep in mind the time remaining for the client to take the car by setting a 1 hour reservation countdown
4. Clients that get the reservation countdown expired are punished with a fee of one euro
   1. The system is able to verify when countdown expires
   2. The system is able to charge the client with a fee of one euro
5. Clients can open the reserved car scanning the qr code
   1. The system is able to control the correspondence between the scanned qr code and reserved car
   2. The system is able to unlock the reserved car
   3. The system is able to start the five minutes courtesy countdown in the moment in which the client unlock the cars (when the countdown expires the system starts to charge the user even if engine is still switched off)
6. Clients can monitor the amount of money to be payed, updated in real time on car display
   1. The system calculates the amount of money that has to be payed by the client starting from engine ignition (or courtesy countdown end)
   2. The amount of money is displayed on car monitor and is continuously updated
   3. The system stops charging the client at travel conclusion
7. Client can enable the saving option in order to ensure a uniform distribution of car in the city
   1. The system is able to find the geographical position of the final destination inserted by the client
   2. The system is able to calculate distances between the destination and the nearest special parking areas
   3. The system always knows how much power plugs are available in the parking areas that have found
   4. The system is able to find the best special parking area for the client basing on information acquired in point 7b and 7c
8. Client can leave the car locked in break continuing to pay, keeping it reserved
   1. The system is able to detect the absence of passengers on board
   2. The system is able to ask the client if he wants to end his travel or to leave the car in break, sending him a notification through the app. This happen when sensors detect that all passengers are out of the car, engine is turned off and doors are closed
   3. The system is able to lock the car keeping it reserved by the client who is on break
   4. The system is able to unlock the car when the client rescans the qr code through the application after the break
9. Cars are blocked automatically when client ends his travel
   1. The system is able to ask the client if he wants to end his travel or to leave the car in break, sending him a notification through the app. This happen in the same way of point 8.b
   2. The system is able to lock the car
   3. The system is able to verify if the vehicle respects the available constraints, consequently modifying its state
10. Client are charged proportionally to the driving time with some penalties or discounts
    1. The system is able to verify the distance between a parked car and the nearest special parking area and the remained level of battery, applying a 30% penalty in case the distance is more than 3 km or the level is less than 20%
    2. The system is able to verify how much passengers have been part of the ride, applying a 10% discount in case they are more than 3
    3. The system applies a 20% discount on last ride in case that battery level is more than 50%
    4. The system is able to detect if the car has been plugged by the client into a power grid, applying in this case a special discount of 30%
    5. The system, that knows client payment information, is able to execute the transaction
11. Assistants have a special account from which they can know the position and the state of each electric car
    1. The system is able to verify if worker who is registering is effectively an employee of the enterprise
    2. The system knows the current position and the state of each electric car
    3. The system is able to generate a map including each car state and position, showing it to the worker
12. Specific employee can register at the system with a special account
    1. The system can check if the credential inserted by the user are relative to an employee
    2. The system registers the employee with a special account that provides him some special functionality
13. Assistant can change the state of a car
    1. The system is able to verify if the account is effectively a special account
    2. The system allows the user to select a car in the interactive
    3. The assistant app allows the user to change the state of the car selected

HO AGGIUNTO LA 7, LA 10 E LA 11…MODIFICATO LE ALTRE-> CAMBIANO I NUMERI DEI GOAL

11 DA RIVEDERE (scritto velocemente)