Descrizioni Sequence Diagram

User Log In

In order to login in the application, the user has to input his credentials, including the password received via email. The client sends all the information that user inserted to the application server that checks the existence of the combination within the database: if the combination exists, then it returns to the client the main screen of the application, from where the user can do different actions. Otherwise, if the system does not match any combination in the database, sends to the client the form for the registration task, specified in the next sequence diagram, and after the user inserts all the requested data in the correct way, system returns a message of successful registration.

User Registration

If the user is an unregistered user, he has to click on the “register” button in order to join the community. The system send to the client a registration form that has to be filled with different data, such as name, surname, username, email address, birth date, driving license number and payment method. The “errors” variable sent within the form is a variable that controls the number of text fields to be reinserted: system increases this variable in case of mismatches during the several checks that it performs in order to verify user’s data and until the variable is not equal to 0, the client remains in the registration form. At the end of the task, if the data are all correct, system sends a message of successful registration.

Car Pick Up

In order to pick up the reserved car, the user has to login in the client app, share his position with the GPS to the system that checks if the user has a reservation and if the position is equal to the position of the safe area selected during the booking. If system matches this information, it unlocks the car, sets the right car state and returns the control to the user that can get the car.