Use case descriptions

**Use case**

Name:

Actors:

Entry conditions:

Flow of events:

Exit conditions:

Exceptions:

**User registration**

Name: user registration.

Actors: guest user.

Entry conditions: there are no entry conditions.

Flow of events:

* The guest enters the web site and click on the registration button.
* The guest fill the form with his name, surname, person code, bank code, driver license number, e-mail, address, phone number and then click on finish registration.
* The system control if exists the person code, the bank code and the driver license number.
* The system send the user a password.
* The guest receives the e-mail with the password.

Exit conditions: The guest now is a register user and can login the system on the web app and also the mobile app.

Exceptions:

* The system advises the guest if person code, bank code or driver license number are wrong and give the possibility to rewrite them after the clicks of finish registration.
* The system advises the guest if person code, driver license number or e-mail are already in use after the clicks of finish registration. If one of them is in use the guest is already register and can`t do the registration.
* If the guest after receiving the password don`t make first login for the next day, the registration will be eliminated.

**Password recovery**

Name: Password recovery.

Actors: Registered user.

Entry conditions: The user must be register to PowerEnJoy.

Flow of events:

* The user enters the site web app and click on the recovery password button.
* The user fill the form with the person code and the e-mail and click on recovery button.
* The system control e-mail and person code.
* The system send the user his password.

Exit conditions: The system can now log the mobile app or web app.

Exceptions: The system advises the user if the e-mail or the person code are wrong and give the possibility to rewrite them after pushing the recovery button.

**Login the system**

Name: Login the system.

Actors: Registered user.

Entry conditions: The user must be register on PowerEnJoy.

Flow of events:

* The user enters in the site by mobile or web app.
* The user fills the white space of the login with his e-mail and relative password and click on login.
* The system controls the insert data.
* The system sends the user on the search car page of the site.
* The user can browse the site and visit the pages of reservations history and payments history by clicking on my account.

Exit conditions: Now the user is logged and can reserve a car.

Exceptions: The system deny the user to log if e-mail or password are wrong but do the possibility to rewrite them after click on login.

**Searching a car**

Name: Searching a car.

Actors: Registered user.

Entry conditions:

* The user must be logged on the system by mobile or web app.
* The system is on the search car space at the login.

Flow of events:

* The user can choose two search mode: current position or address
* If user click current position, the map let user see the position of the available car near him.
* If user click address, the user can write an address in a space where would like to search a car. The system will screen on the map the right address and the available car near the address choose.
* The user can choose a car clicking on it on the map.
* The system show the situation of the battery of the clicked car.
* The system control if the user has pay the last ride.
* The user can reserve the clicked car by push the button reserve car.

Exit conditions:

* If a car is reserved the system makes start a timer of 60 minutes on the mobile app.
* If a car is reserved the system deny the user to reserve another car.
* If a car is reserved, a button “unlock car” begins available on the mobile app.

Exceptions:

* If the system notices that the user doesn`t have pay the last ride, the reservation button is deny.
* If the system doesn`t know the address fill by the user, the system notifies them.
* If a car begins unavailable before the reservation of the user, the system notifies the user of the error and redirects the user on the map.

**User use the car**

Name: User use the car

Actors: Registered user

Entry conditions: The user must have done a reservation of a car.

Flow of events:

* The user must login at the mobile app.
* The user can click on the timer part of the site for watch the remaining time until the reservation expires.
* The user can click unlock car button on the mobile app.
* The system control the current position of the user and the position of the reserved car, and if the distance between the two position is less or equal of 5 meters the system unlock the car.
* The user open the car and ignites the engine
* The system turns on the screen on board and notifies in real time the current payment, the position of the car in a map on the screen and the near power grid station.
* The user stop the engine and park the car
* When all the passengers get off the car and the door are all close, the system lock the car.
* If the user park near a power grid station, he can plug in the car for recharging it.
* After 3 minutes since the system lock the car, the system computes the payment with the fee or the discount and sends it to the payment handler.
* The system send an e-mail of the bill to the user.
* The user receives the e-mail of the bill by PoweeEnJoy and an e-mail from the payment handler that says if the user has enough money to pay or not.

Exit conditions:

* If the user has pay the ride, allowed him to make another reservation.
* If the user not pay the ride, he can`t do another reservation until he pay it

Exceptions:

* The system disabled the unlock car button if the timer expires. The system sends a notification to the payment handler to make pay to the user the 1 Euro fee and also send an e-mail to the user to being notify of the fee.