ENTITY BEANS

<<Entity>> Car

+ plate
+ position
+ seatsNumber
+ carStatus

+ getStatus()
+ getPlate()
+ updateStatus()
+ updatePosition()

<<Entity>> User

+ userName
+ password
+ email
+ name
+ surname
+ sex
+ address
+ phoneNumber
+ taxIdCode
+ licenseInfo
+ paymentInfo
+ birthCountry
+ birthDate

+ checkCredentials(username,password)
+ createUser()
+deleteUser()
+editProfile()
+userBanning()

<<Entity>> Operator

+ userName
+ password
+ email
+ name
+ surname
+ sex
+ address
+ phoneNumber
+ taxIdCode
+ birthCountry
+ birthDate

+ checkCredentials(username,password)
+ addSafeArea()
+deleteSafeArea()
+addPowerGridStation()
+deletePowerGridStation

<<Entity>> Car

+ plate
+ position
+ seatsNumber
+ carStatus

+ getStatus()
+ getPlate()
+ updateStatus()
+ updatePosition()

1 drive *

<<Enumeration>> Car Status

AVAILABLE

BOOKED

UNAVAILABLE

BUSY

1

Position

+ latitude
+longitude

*

*

contains

*

1

<<Entity>> Ride

+ id
+ ignitionTime
+ moneySavingOption
+ unlockTime
+ bonus
+ endRideDate
+ StartRideDate
+ maxPassengers

+ newRide()
+ enableMoneySavingOption()
+ disableMoneySavingOption()
+ getBonus()
+ changeRideStatus(s:Ridestatus)

<<Enumeration>> RideStatus

COMPLETED

WAITING

RESERVED-NOT-STARTED

ON-BOARD

1

<<Entity>> SafeArea

+ radius
+ position
+ List<PowerGridStation> powerGrid
+ List<Car> cars

+ getSafeArea()
+ deleteSafeArea()
+ getPosition()
+ updateRadius()
+getCars

1

*

<<Entity>> Plug

+ powerGridSation
+ position

+ getPowerGridStation()
+ getPostion()

* 1

<<Entity>> PowerGridStation

+ safeArea
+ position
+List<Plug> plug

+ getSafeArea()
+ getPostion()