

RASD

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1 Introduction

1.1 Description of the given problem

The system we are going to develop is a car—sharing service called *PowerEnJoy*, based on mobile application and which has a website. The system allows users to locate and reserve a car to drive in their geographical region using mobile application. Geographical region is identified using GPS on user's smartphone, he can also insert it manually. User can drive a car only inside one chosen geographical region. People in the system are not considered as registered until they fill an online form on the website or on the main page of the mobile application and until their driving license are not checked by the system as valid ones.

The main purpose of the system is to be efficient, reliable and easy to use to fulfill the will of users and the customer.

1.2 Actual system

There is nothing created until now, and we suppose that we have to create the entire application, depending only on the problem given by the customer.

1.3 Scope

1.4 Actors

- Guest: all guests can only see the login page of the application or of the website, where they can complete the registration form to be able to login from mobile application as registered users.
- Registered User: after logging in to the system users can "use" (change this word) the application, where they can see map with available cars, reserve one and get notifications from the system and also can see their profile and make some changes in it.

1.5 Goals

- **G1** Guest are able to register to the System. Each guest must fill a profile to become a user.
- **G2** To complete the procedure of registration the system sends password to the guest as an access key.
- **G3** The system enables the registered user to find the locations of an available car within a certain distance from user's location or from specified address.
- **G4** The system enables user to reserve a single available car in a certain geographical region for one hour before the user picks it up.

- **G5** If the reserved car is not picked up within one hour from the reservation time, the reservation expires and the system tag this car as available. The system charges user a fee of 1 EUR.
- **G6** User tells the system that he's near the reserved car. The system unlocks the car to let the user enter.
- G1 The system charges the user for a predefined amount of money per minute.
- G2 The system starts charging the user as soon as the car ignites.
- **G3** The system stops charging the user when the car is parked in a safe area and the user exits the car. The user must confirm the operation, otherwise the system keeps charging them.
- G4 A screen on the car notifies the user of the current charges.
- G5 The system locks the car automatically when the user exits the car.
- **G6** The system allows the user to open the car through a bluetooth system when the user has reserved it.
- **G8** If the user has chosen to keep being charged, the system allows them to exit and close and re-open the car through a bluetooth system.
- **G9** If the user has chosen to stop being charged, the system keeps a 10-minutes window of time when they are allowed to re-open the car if it has not already been reserved by someone else.
- **G10** The set of safe parking areas is pre–defined by the management system.
- **G11** The system allows the user to earn a 10% discount for the current ride if there are at least two other passengers in the car.
- **G1** The system applies a 20% discount on the current ride if the car is returned by the user with more than 50% of power charge.
- **G2** If a user returns a car to a recharging safe area and plugs it into the power grid, the system applies a 30% discount on his current ride.
- G3 The system applies a 30% sanction on the current ride if the car is returned in a safe area at more than 3 km from the nearest recharging safe area.
- **G4** The system applies a 30% sanction on the current ride if the car is returned with less than 20% of power charge.

- **G5** The system provides an option (*money saving*) to get information about the best safe area where the user can leave the car. The best safe area ensures a uniform distribution of cars among the city and takes into account the destination and the nature of the safe areas (recharging or not).
- **G6** In *money saving option*, the system applies a certain discount for the current ride if the car is returned in the suggested safe area.
- **G6** Cars returned with less then 20% of power charge are recharged within 1 day.
- **G1** The system notifies the user of the final charges on their smartphone as soon as 10 minutes passes or another user reserves a car.

1.6 Domain properties

We assume that the following properties hold in the analyzed world:

- A tablet is permanently installed in every car.
- The tablet is alimented through the car and cannot be switched off.
- All cars are equipped and located with a GPS system provided by the tablet.
- All GPS systems always give the right position.
- GPS tracking is always on.
- All cars has sensors to detect the presence of passengers in each seat.
- The system is always able to tell how many people occupy a car.
- All cars are equipped with a Bluetooth system provided by the tablet.
- The Bluetooth system is always on.

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- A user can always provide his location, either by GPS or by giving their position themselves.
- The safe areas are predefined and within the municipality of Milan.
- The payments of all services are managed by an external company, which guarantees fulfillment.
- \bullet The cars always ignite when they have more than 3% of power charge.
- The cars cannot be reserved by more than one user at any given time.

1.7 Glossary

User We will refer to all people who are registered to the system as 'users'. All users have personal profiles which contain the following information:

- First name;
- Family name;
- Email;
- Username;
- Password:
- Payment information; this in particular includes:
 - Credit card number;
 - Credit card expiration date;
 - CVV number.
- Driving license information; this in particular includes:
 - License number;
 - Issued date:
 - Expiration date;
 - Status.

And, optionally:

- Personal photo;
- Telephone number.

Users should be able to locate, reserve and drive the cars offered by the service.

- **Guest** We shall call 'guests' all people who are using the interface of the system without being registered or logged in. Guests can't access any functionality of *PowerEnJoy* except for the registration process or the log in.
- **Parking areas** Also called *Safe areas*, parking areas are predefined parking slots within the municipality that are reserved for the car–sharing system *PowerEnJoy*.
- **Special parking areas**, or *recharging areas* are *Parking areas* that provides a plug to recharge the car. Recharging parking areas are a subset of Parking areas (parking areas *may* be recharging areas, while the contrary doesn't apply).
- **Reserved car** We will call 'reserved car' a specific car that is booked by current user, not taken by other users, and is located in the same geographical region as him.

Available car is the car that is not reserved by other users.

Power grid

Standard price We shall call 'standard price' the price per minute charged to the user, without any discount or sanction applied.

Discount A discount is a deduction of a given percentage from the standard price. It is applied every time a user has a virtuous behavior.

Sanction A sanction is an increase of a given percentage to the standard price. It is applied every time a user has a wasteful or incorrect behavior.

Money saving option An option offered to the users by the system. The user inputs their final destination and the system indicates them the best close station where to leave the car.

1.8 Assumptions

The assignment document was unclear and ambiguous on some points of the specifications. Hence, we will make the following assumptions:

- Parking areas and special parking areas are two different things; however, common sense suggests that it isn't logical to charge users if they plug the car to the power grid in a recharging area but are not parked in a safe area. Neither it makes sense to sanction them if they park it in a safe area that is 3 km far from the power grid. Having the two areas separate would lead to the consequences above, so we decided that while a safe area may not be a recharging area, recharging areas are always safe areas. Furthermore, assuming that a city has many safe areas, so that users can enjoy the service all around the city, it is reasonable to think that just a few of them have been equipped with a power grid connection, for economic and infrastructural reasons.
- The system is completely autonomous and can manage emergencies (such as the car breaking down, or street accidents) without the need of an administrator.
- The users are able to reserve an available car only from their geographical region.
- There is a "manual" way to close and open the car, i.e. that the user is allowed to temporarily park the car while still being charged –, get out, close the car, and then get back and open it again. This means that the system can be used not only for one-way travels, but also when more stops or a round trip is needed.
- Parking areas and special parking areas are allotted and private parking spaces owned by *PowerEnJoy* and distributed throughout the urban area.
- We assume that all cars are the same model and have the same features; specifically, they are all 5-door Citroën C-Zero Micro Car with four seats, customized for the purposes of *PowerEnJoy*.

1.9 Constrains

1.10 Proposed system

1.11 Identifying Stakeholders

Main stakeholders are the inhabitants of Milan willing to use an ecologic and comfortable mean of transport, without the need to buy and maintain a personal car. The system can be adopted in any other city, so the inhabitants of other cities too can become stakeholders. In Milan, the project is promoted and participated my the city council as minor investor.

1.12 Reference documents

2 Actors Identifying

The system involves as main external actors:

User The final target of the system. Once registered, they can reserve a car and use it in respect of the agreements established with *PowerEnJoy*. They are charged for the usage of the car. It is expected

Guest A potential user not registered in the system yet.

The following actors have also been identified inside *PowerEnJoy* as needed by the system:

Admin Back-office administrators, they have access to a control panel.

Operator Maintenance operators who provide field-based assistance and ensures cars are always ready to be used.

Car The car provided to users. It interacts with the system to be develop to provide information about usage and status and to receive commands.

The system has moreover to interact with the following external service provider:

Payment service Provider of every service related to users payment management.

Local police Local law enforcement agencies such as *Polizia locale* or *Carabinieri* that interacts with the system for legal issues.

3 Requirements

4 Scenario identifying

4.1 Scenario 1: Registration from the website

Anakin has just moved to Milan and has rented a flat; however, he couldn't afford a place close to the city centre, where he works; he also doesn't have a car, so he's been going back and forth with public transport. Because of that, he needs to wake up half an hour earlier and usually gets home very late, and he's getting tired. He then decides to look for a solution on Google, and he finds the car—sharing service of PowerEnJoy, which has a parking place close to his home. The PowerEnJoy web page has all the information readily available, pricing, features, an approximated map of the parking areas included and a link to download the application from suitable store, so Anakin decides to sign up. He completes a form, where he writes his complete name, personal information, information about his driving license, credentials and payment; the system checks Anakin's driving license and only then sends him the password, so he can login from the phone application and access the private area of the system.

4.2 Scenario 1: Registration from the mobile application

Chewbacca was advised the *PowerEnJoy*, so he finds the application on the mobile appstore and downloads it directly to his phone. Opening the application he sees the main page where he can register just as his friend Anakin.

4.3 Scenario 2: Login in the app

Padmé has registered on the PowerEnJoy website and now has downloaded the application on her smartphone. Opening the application, she finds a screen asking her to log in. Padmé registered with $Naboo_princess$ username, and the password she received in her email is 7aKmm93s, so she fills the login form with this information. The first time she writes the password wrong, so the login is rejected and the application asks her to try again. The second time she typed the password right, so the system accepts the login and shows the main page of the application.

4.4 Scenario 3: Reserving and using a car

Luke must reach his aunt and uncle for the usual sunday roast. He doesn't have a car, and usually he just takes the subway. However today the public transport workers are on strike, and the metro is out of order. Luke is a distracted kid, always with his head in the clouds, so he forgot about the strike and has walked for the fifteen minutes needed to reach the metro. He is nevertheless smart and resourceful, and so he remembers that he's signed in the *PowerEnJoy* system. He opens the app and presses the "find car" button. He has the GPS activated, so the system locates him and tells him that there's a parking area with an

available car next to the metro station. The application gives him the choice of reserving the car or cancel the operation, and Luke reserves the car.

4.5 Scenario 4: Parking and regular fees

Leia needs to get to the american consulate ASAP. She's a frequent user of the car-sharing service, so she already knows all the safe areas where she can park around the diplomatic block in the city centre, since she often needs to go there. While she drives, the smart display in her car tells her how much the system is currently charging: the fee per minute is 0,50 EUR, and she's been driving for half an hour, so her fee currently is 15 EUR. She reaches the diplomatic area after two more minutes, and she knows that the parking area is around the corner from the consulate, so she reaches there. This particular safe area is not a recharging area, and Leia left the car with a 60% battery full, so the system charges her 16 EUR. The display notifies her that she's parked in a safe area and that no sanction applies to her fee. The system also asks her if she wants to keep the car reserved and keep being charged, and she declines. She exits the car and the system locks it automatically.

4.6 Scenario 5: Power grid and discounted fees

4.7 Scenario 6: Parking and sanctioned fees

Han, Leia's husband, is also a regular user of the system. He's however less abiding to rules and is a bit of a free spirit, so he generally never gains any discount and is often sanctioned for wasteful behaviour. For example, last monday he needed to reach his bank in Porta Genova for a meeting with his broker. He was very late, so he parked right outside the bank, outside any safe area. It took him twenty minutes to get there, so the system had charged him 10 EUR. As soon as he stops the car, the display notifies him that he is in an unsafe area, so he'll keep being charged even if he isn't using the car. Han confirms and exits. The car doesn't lock automatically, so he needs to turn his bluetooth on and close it with the *PowerEnJoy* application.

4.8 Scenario 7: Lost reservation

Han and Leia want to go a restaurant. Han thinks that they are about to leave the house, so he decides to reserve a car while still at home to make sure they will have a car after leaving home, but it takes Leia more than an hour to get prepared. In one hour they are not near the car to open it, so the system cancels Han's reservation, notifies him about the 1 EUR sanction charged for uselessly reserving it and asks if he wants to reserve another available car.

4.9 Scenario 8: Two passengers + special parking area

Chewbacca met Han and Leia on his way, so he invited them to take one car. When they sit in the car, Chewbacca receives a notification on the display that two other passengers are detected. When they arrive to their destination, Chewbacca sees on the application's map that there is a special parking area near them, therefore he decides to put the car there and doesn't forget to plug in the car to the power grid. At the end of the ride Chewbacca gets a discount of 40% (10% for the 2 passengers +30% for leaving the car on the special parking area and plugging it to the power grid).

4.10 Scenario 9: Money saving option

4.11 Scenario #: Left the city

4.12 Scenario #: Recover a car with user input

Obi-Wan is driving peacefully to reach his yoga instructor, Qui-Gon Jinn, when the car breaks down; he tries to restart it or check what is wrong, but the system doesn't detect any anomaly and he isn't a mechanic, so he decides to notify the company: he opens the app on his phone and enters the *Emergency help* section. The app asks him to broadly describe the problem by filling a form. He then selects the option "car doesn't work" and the system tells him that an operator is on his way. In the meantime the system, having located the car, notifies the operator of its whereabouts. The operator – which is also a mechanic – goes there with a truck. He checks the car on site and then, since the car needs more serious repairs, he loads it on the truck. The operator informs the system that the breakdown was not Obi-Wan's fault, so Obi-Wan's charges are dropped for faulty service. The system them offers him to reserve another car in a safe area nearby.

4.13 Scenario #: Recover a car without user input

An unnamed user has left a car with 0% battery in an area far from the power grid. As soon as the emergency battery kicks in, the system locates the car and alerts an operator of the situation. In this case, two operators are dispatched on the same truck: when they reach the car, they try to charge it on site. If they manage to do so, one operator drives the car to the nearest recharging area while the other follows with the truck. If they don't, they load the car on the truck and transport it to the nearest recharging area.

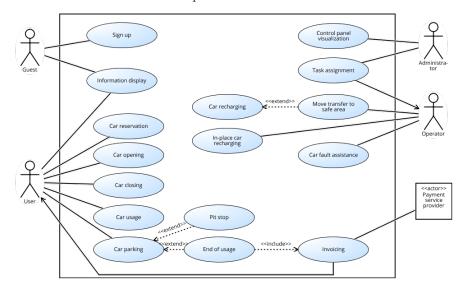
4.14 Scenario #: User breaking the law

Darth Maul has broken the law while driving a *PowerEnJoy* car: he was driving too fast in a residential area. Since the police has identified the car plate, the notification of the fine is sent to the company. The system administrator checks who was driving that specific car at that time and discovers it was him: he then forwards the fine to the address Darth Maul has given in his registration form, and notifies the local police that he was actually the driver. Since this is not a serious offense, Darth Maul is only notified of the infraction by the system

5 UML models

5.1 Use case diagram

A global picture of the system interaction with actors is provided here by means of use case diagrams. Following, an analysis of the most interesting use case situations derived from scenarios is presented.



5.1.1 Use case 1: Reserve a car

Name Reserve a car

Actors

User The user who wants to reserve a car.

Entry condition The user decides to reserve a car to take in the next hour.

Flow of events

- 1. The user logs in into the mobile app and goes to the reservation section.
- 2. The system automatically retrieves and displays the location of the user, but they can specify a different location if needed.
- 3. The system displays the position of the available cars close to the selected location.
- 4. The user selects a car and confirm the reservation.

Exit condition The system reserves the car for the user.

Exceptions

- The system is not able to locate the user automatically. The user is required to insert a position manually.
- The system is not able to find a position inserted manually. The user is informed and the operation is aborted.
- There are no available cars. The user is informed and the operation is aborted.
- The user cancels the operation before confirming. The reservation process is not completed and the car remains available to other users

Special Requirements None.

5.1.2 Use case 2: Park in known safe area

Name Park in known safe area

Actors

User The user of the car.

Car The car in use.

Entry condition The user is driving and has reached their destination. They know a safe area close to the destination.

Flow of events

- 1. The safe area is free and the user parks in it.
- 2. As the car is turned off, the system detects it is in a safe area.
- 3. The system asks the user if he wants to keep the car or to end the ride.
- 4. The user selects to end the ride.
- 5. The user exits the car.
- 6. The system closes the car.
- 7. The system charges the user for the ride.

Exit condition The user leaves the car and the car becomes available to other users.

Exceptions

- The safe area is taken. The user can't end their ride and this operation is aborted.
- The car is badly parked. ???
- The user selects to keep the car when prompted. The user keeps being charged and the car is not made available for other users.

Special Requirements None.

5.1.3 Use case 3: Park with money saving option

Name Park with money saving option

Actors

User The user of the car.

Car The car in use.

Entry condition The user selects the *money saving option* at some point of their ride and insert their destination.

Flow of events

- 1. The system indicates the user the suggested safe area for their destination.
- 2. The user parks in the suggested safe area.
- 3. As the car is turned off, the system detects it is in a safe area.
- 4. The system asks the user if he wants to keep the car or to end the ride
- 5. The user selects to end the ride.
- 6. The user exits the car.
- 7. The system closes the car.
- 8. The system charges the user for the ride. A discount is applied for using the *money saving option*.

Exit condition The user leaves the car and the car becomes available to other users.

Exceptions

- The suggested safe area becomes taken while the user is driving. The system selects another safe area and notifies the user of the new suggestion.
- The user parks in another safe area. The system notifies the user that they will not receive a discount. If the user decides to end the ride anyway, the system charges them without applying the money saving option discount.
- The destination of the user changes. The user selects a new destination and the system indicates another suggestion.
- The user disables the *money saving option* while driving. The suggested safe area stops being displayed and the ride continues as normal.

Special Requirements The *money saving option* must be selected before stopping the car in a parking area.

5.1.4 Use case 4: Park in a recharging area

Name Park in a recharging area

Actors

User The user of the car.

Car The car in use.

Entry condition The user is about to park in a recharging area.

Flow of events

- 1. The user parks the car in the recharging area.
- 2. As the car is turned off, the system detects it is in a safe area.
- 3. The system asks the user if he wants to keep the car or to end the ride.
- 4. The user selects to end the ride.
- 5. The user exits the car.
- 6. The system closes the car.
- 7. The system charges the user for the ride.
- 8. The user plugs the car into the power grid through the supply point installed in the parking space.
- 9. The system detects the car is recharging.
- 10. The system modifies the charge applied to the user for the ride. A 30% discount is applied to promote virtuous behaviors.

Exit condition The user leaves the car and the car becomes available to other users.

Exceptions

• The user does not plug the car into the power grid. The user is charged as if they parked in a safe area.

Special Requirements The user plugs in the car within 5 minutes from the moment they exits the car. Otherwise the discount is not applied.

5.1.5 Use case 5: Retrieve a car with user input

Name Retrieve a car

Actors

User The user of the car.

Operator The field operator.

Entry condition The car doesn't work and the user has parked it safely somewhere on the road.

Flow of events

- The user checks whether the system has already notified the breakdown.
- 2. The user enters the app from their smartphone and manually notifies the malfunction.
- 3. The system asks the user to fill a form with the information needed.
- 4. The system locates the car.
- 5. The system analyses the user's form and decides how many operatos are needed
- 6. The system notifies the operators of the car's location and asks them to retrieve the car.
- 7. The operators drive the truck to the car's location.
- 8. The operators check the car on site.
- 9. The operators loads the car on the truck and drives it away to be repaired.
- 10. The system notifies the user of the annulment of all charges.
- 11. The system asks the user if he wants to reserve another car.

Exit condition The operator brings the car in to be repaired; the user doesn't pay anything and is offered another car.

Exceptions

- The user fills the form with wrong information The field operators report this as soon as they arrive at the location and alert the system. The operators decide whether to have the user pay the fare anyway (if they inconvenienced the operators for naught) or not and notify the system. The system charges the user accordingly.
- There are no cars available nearby The system alerts the user that there are no available cars in a 1km radius. The system then asks the user if they want to increase the radius of the search or to cancel it.
- The system knows of the malfunction The system already knows of the malfunction
- The car isn't safely parked The user ticks a box in the form to inform the system of the unsafe parking. The system looks for a safe place to park nearby and notifies the operators. The operators park there and reach the car on foot to check on it. If the car needs to be transported, the operators alert the local police.

• The car is impossible to reach The operators cannot reach the car in its location. The operators notify the system. The system alerts the local police.

Special Requirements The operators must reach the car in 30 minutes time at most.

5.1.6 Use case 6: Manually assist a parked car

Name Manually assist a car

Actors

Admin The administrator who sends the operator.

Operator The operator sent to recover the car.

Car The car in use.

Entry condition The administrator is notified by the system that a parked car needs manual assistance.

Flow of events

- 1. The admin checks the issue the system is displaying. It can be one of the following:
 - the car is in a safe area without enough power charge to be used;
 - the car is in a recharging area without the plug inserted.
- 2. The admin assigns the maintenance work to an operator.
- 3. The operator accepts the assignment and the admin is notified of it.
- $4. \ \ \ When available, the operator performs the {\it maintenance operation} (see below). The operator checks the assignment of the control of the control$

Exit condition The maintenance activity has been performed and the admin is notified of the completion.

Exceptions

• The operator cannot is not able to the maintenance. The assignment is marked as not completed, the cause is inserted into the system. The admin will be not if it and will

Special Requirements The operator cannot refuse an assignment and always accept it within a working day. The operator always marks the assignment as either $_{c}ompleted_{o}r_{n}otcompleted_{b}eforetheendoftheworkday$. In the previous use case we refer to $_{m}aintenanceoperation_{a}stooneofthefollowing$:

Issue: the car is in a safe area without enough power charge to be used. **Maintenance operation**: the car is towed to a recharging area and plugged into the power grid once there.

Issue: the car is in a recharging area without the plug inserted. Maintenance operation: the car is plugged into the power grid.

5.1.7 Use case 7: Manage infractions

Name Manage infractions

Actors

Admin The system administrator.

Police The local law enforcement.

User The user responsible for the infraction.

Entry conditions The company receives by mail the notification of the infraction.

Flow of events

- 1. The admin logs into the system and inserts the license plate and the time of the infraction to find the responsible user.
- 2. The system shows the name of the user.
- 3. The admin makes a copy of the infraction notice, and then forwards it to the user's address.
- 4. The admin notifies the police of the identity of the driver at the time the infraction was made and asks them to notify the company when the driver has paid the fine.
- 5. The admin decides whether the offense is considered *severe* or not. Severe offenses are:
 - Exceed the speed limit by more than 40 kmph.
 - Driving under the influence (DUI).
 - Causing accidents

Everything else (i.e. parking tickets, speed tickets under the 40 kmph limit) is not considered a severe offense.

- 6. Based on the gravity of the offense, the admin either bans the user (if the infraction is severe) or notifies him of the infraction.
- 7. The user receives the notification of the infraction via physical mail and goes to the police station to accept responsibility for it.
- 8. The police notifies the company of the concluded procedure.

Exit conditions The legal procedure has been closed and the user has taken full responsibility.

Exceptions

- The user refuses to take responsibility
- The address provided by the user is wrong
- The infraction causes the user to lose their license

6 Alloy modeling

7 Appendix

List of Figures

List of Tables

7.1 Used tools

For this assignment, we used the following tools:

Alloy

LaTeX The group used LaTeX to structure the final document and to help with versioning.

Github We leaned on Github for versioning and coordinating synchronized work.

Toggl We used toggl to keep track of work hours.

Slack

7.2 Hours of work