

## Software Engineering – list 2

**1.** Give at least 10 examples of functional requirements for car rental system:

User types:

1. Consumer
2. Administrator

Administrator requirements:

1. Administrator should be able to buy new cars.
2. Administrator should be able to conclude a contract with a consumer
3. Administrator should be able refuse to conclude a contract.

Consumer requirements:

1. Consumer should be age 18 or older.
2. Consumer should have driver license of required category.
3. After rental period consumer must return the car in satisfactory condition or compensate for the damage.

Functional requirements:

1. Consumer should be able to find cars based on location.
2. Consumer may register his own account in the system.
3. Consumer has his own account's balance which can be charged via online or via coupons.
4. Consumer may change his personal information
5. Consumer cannot rent a car if there is no enough amount of money on his balance.
6. Consumer should be able to drop the car at different prepared in advance places.
7. Consumer should be able to choose between cars base on different criteria (number of seats, type of car (economy, business, luxury), car class (sedan, sport etc.)

8. Consumer may reserve chosen car in advance.
9. Consumer may modify or cancel his reservation. Charge is applied based on cancellation time.
10. Administrator may block user's account if consumer violated the terms of use of the service.
11. The user can leave feedback on the use of the service.

**2.** Give at least one example of non-functional requirement related to efficiency, reliability, and usability for a library system

1. Efficiency: Book should be found in less than 10 seconds
2. Usability: The system is available for all users 24hrs a day 365 days a year
3. Reliability: The system must be 100% reliable due to the importance of data and the damages that can be by incorrect or incomplete data.