## Data Modelling and Databases I. Assignment 1.

Link to the paper: +Data Modelling and Databases I. Assignment 1.

## Requirements using shall-statements

- 1. A system shall allow the users to register by entering their full name, username, e-mail, phone number and location of residence.
- 2. A system shall allow users to log in with their unique username.
- 3. A system shall allow users to find the nearest car.
- 4. A system shall allow users to find a car with required characteristics.
- 5. A system shall provide an ability for users to rent a self-driving vehicle.
- 6. A system shall allow user to choose start and destination points.
- 7. A system shall provide an ability for users to find the nearest free charging station according to GPS location, which shape and size of plug is suitable for the car.
- 8. A system shall provide an ability for Cars to find the closest workshop which has neccessary car parts.
- 9. A system shall allow managers to regularly check amount of parts in Workshops.
- 10. A system shall allow managers to order car parts from provider of them to one or more workshops.
- 11. A system shall charge a fee from user's credit card after the end of the ride according to the car's price and the time of a ride.
- 12. System shall store information that every user is identified by unique username, and has a full name, e-mail, location of residence (Country, City, Zip code) and a phone number.
- 13. System shall store information that every charging station is identified by UID and has a GPS location, amount of available sockets, price/cost of regarding charging amount, shape and size of plugs, time of charging.
- 14. System shall store information that every workshop is identified by WID and has a workshop location, car parts available according to the car type and availability of timing.
- 15. System shall store information that every provider of car parts is identified by unique company ID and has a name, address, phone number and types of car part which the provider provides.

16.	System shall store information that every car is identified by CID and has a location, model, price.