





**Task 1c – List any assumptions and associated impacts on your diagram. A section called “assumptions” which has**

- a numbered list of all assumptions that were made to help clarify any ambiguities in the problem statement.
  - for each assumption, a description of what was added / changed in the diagram for section a) based on the assumption.
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- 1) Any car in the in the system must has one client only so we can assume that there is only one owner for a car, but a client can have multiple cars.
  - 2) The car owner (Client) can have multiple cars, they also need one swipe card for each car because each swipe card can only be issued for one reservation (permit or spot) and each car can have zero to only one reservation (permit or spot) so the car owner can have zero to many cards, but the card can be only for one client.
  - 3) Each car could have a different type of permit or use a ticket so it can be assumed that a car can have zero to many tickets but a ticket can only be issued for one car.
  - 4) There can be zero to multiple entry attempts with a swipe card, but each entry attempt is only done by one swipe card.
  - 5) It can be assumed that all the parking spot (car lots) in the system should have an ID regardless of what kind of parking area they are in, furthermore each parking area (Open/ Reservation/ Gated) can have one to many parking spots but each parking spot only belongs to one parking area.