Goals, requirements and stuff

WARNING: verbs are not in third person singular form

Goals

- 1. The passengers must be able to:
 - 1. Transmit its position and the desired destination to the system, thus initiating the request of a taxi
 - 2. Receive the code and the ETA of the incoming taxi
 - 3. Reserve a taxi for a certain time
 - 4. Request a shared ride
 - 5. Receive the fee amount he need to pay in case of a shared ride
- 2. The taxi driver must be able to:
 - 1. Answer a passenger request
 - 2. Render him/herself available to the scheduler
 - 3. Render him/herself unavailable to the scheduler
 - 4. Receive informations about the fees of the passengers in case of shared ride
- 3. The system must to:
 - 1. Offer a programmatic interface to enable the development of additional services

Requirements

- 1. The system forward passengers request to the first taxi in the passengers zone queue
- 2. If a taxi refuses a call request, the system must forward the call to the second taxi in queue, and move the first taxi at the end of the queue
- 3. The system appends free taxis on the queue corresponding to his zone location
- 4. The system sends taxi ID and ETA to the passenger requester
- 5. The system must allocate a taxi, for a reservation, 10 minutes before the meeting time with the passenger
- 6. The system must arranges the shared rides :
 - 1. Aggregates passengers in the same taxi-zone

- 2. Arranges the route for the taxi driver
- 3. Defines the fee for all persons that are sharing the taxi, and informs the passengers and the taxi driver
- 7. The system accept only reservation that occur at least two hours before the ride
- 8. A veichle ID can't belong to two different account
- 9. Every taxi driver must create an account to access the service, adding: Name, Surname, SSN, veichle ID, License ID, phone number badge
- 10. The taxi drivers must login to start using the service
- 11. Upon logout of a driver, the system must remove the corresponding taxi from the queue

Assumptions

- 1. Taxi locations are acquired by GPS
- 2. The system append freee taxis on the queue corresponding to his zone location
- 3. The system must keep a database of all the taxi drivers, with rach drivers'ID
- 4. The system must keep track of the different zone
- 5. Passenger should be able to access the system from both a in-browser and a mobile application

Constraints

- 1. Passengers can access to the service through mobile or web application
- 2. Taxi driver can use the system only with mobile application
- 3. Taxi driver must have a GPS to share his location with the system
- 4. Both Passengers and Taxi driver must be connected to the netowrk to access the service (too obvious?)
- 5. Each taxi driver is in charge of exactly one taxi vehicle

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