

Goals, requirements and stuff

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. Can select a shared ride

Assumption: in case the taxi queue is empty, the system will query the adjacent zones
2. The taxi driver must be able to:
 1. Login to the system (requirements?)
 2. Answer a passenger request
 3. Render him/herself available to the scheduler
 4. Render him/herself unavailable to the scheduler

Requirements

1. The system forward passengers request to the first taxi in the passengers zone queue
2. The system append free taxis on the queue corresponding to his zone location
3. The system send taxi ID and ETA to the passenger requester

Assumptions

1. Taxi locations are acquired by GPS
2. The system append free taxis on the queue corresponding to his zone location
3. Create an account adding: Name, Surname, SSN, vehicle ID(Targa), badge/phone number (security: verify phone number through a code, Steam like)
4. The system must keep a database of all the taxi drivers, with each drivers'ID
5. the system must keep track of the different zone

Constraints

1. Unique account for each vehicle ID
2. Passenger should be able to access the system from both a in-browser and a mobile application
3. The system accept only reservation that occur at least two hours before the ride