**Use Case Name**

Manage the Taxi

**Participating Actor**

* System
* Taxi Driver
* Taxi GPS Locator

**Entry Condition**

A Taxi Driver has communicated to the System his availability. This situation can happen either when a taxi driver finishes a service or when he starts his work session.

**Flow of Events**

* The System receives the GPS information from the Taxi GPS Locator.
* The System calculates the zone in which the Taxi is waiting.
* The System stores the identifier of the Tax into the queue that contains all the taxies of the particular zone as the last element.

**Exit Condition**

The Taxi Driver waits for a request for a new service from the System.

**Exceptions**

* If the System doesn’t receives the GPS Information from the Taxi GPS Locator, it has to send a notification to the Drive.
* If a particular queue is full, the system automatically stores the Taxi into a different queue in order to equally distribute the taxis in the city. Then send a notification to the Taxi Driver and he moves to the new zone. (Chiedere a Sofia)

**Special Requirements**

* The city is already dived into Taxi Zone (approximately 2 km2 each).
* For each zone there is a queue of taxi (it can be empty if there aren’t any taxies in its zone).
* The Taxi Driver has to use a Mobile App for sending his availability.
* Each Taxi and Drives must have an identification code.