Scope

The aim of the project is to develop (create/model ?) a software application whose intent is to provide an easy, comfortable and intuitive access to the city’s taxi service.

The name of the application is myTaxiService.

The front-end layer is composed of both a web application, dedicated only to people requesting the service, and a mobile application, dedicated **also** to taxi drivers providing the service. Normal people and taxi drivers have access to different functionalities. Access to the actual service on both sides is granted only to registered users, meaning that a registration is required. The only functionality available for guests is to visualize the homepage.

Normal view: myTaxiService allows the user to request a taxi in a specific location. In this case the user is given a code and a waiting time estimation by system. myTaxiService also allows the user to make a taxi reservation for a specific time and a specific origin-destination ride which the user is asked to provide. The reservation must be done at least two hours before the given time, otherwise the system will send a notification about the rejected reservation’s request.

Taxi driver view: myTaxiService allows the user to communicate his availability at the moment. If the user is available the system can send him notifications about incoming requests. The user may or may not confirm his will to take care of the request.

The back-end of the application manages the taxis’ distribution around the city via GPS information and the forwarding of incoming requests to near taxis via a queue policy based on a taxi zones division. Of course it manages also the forwarding of notifications to the users.