Functional Requirements

Goal

Allow a user to register and authenticate to the service

Functional Requirements

* The user must not be already registered
* The username chosen by the user in the registration phase must be unique
* The password must contain at least a capital letter, a number and a symbol and can’t be shorter than 8 characters (non functional)
* The user must confirm his email address in order to become a registered user
* The personal data inserted in the registration phase must be correct and valid
* The authentication data inserted must be correct in order to authenticate
* If the user is not authenticated, he can only see the authentication/registration page

Goal

Allow the user to request a taxi. Inform the taxi driver of the request and the position of the passenger

Functional Requirements

* The user must be authenticated
* The address inserted in the request must be correct and valid
* The taxi driver must accept the forwarded request using his mobile app
* The user must get in the taxi by 10 minutes from its arrival (non functional)
* The system must forward the request to an available taxi
* The taxi must go to the requesting user as soon as he accepts the request

Goal

Manage the taxis in order to fulfil all the requests

Functional Requirements

* The system puts the taxis at the bottom of the queue of the area where they finish the rides
* If an area has a full queue, the system must send the taxi in the area with the least available taxi
* When a user makes a request, the system must send the nearest taxi available
* If there isn’t any available taxi when a user makes a request, the system must warn the user
* If a taxi doesn’t accept a request in a maximum of 5 minutes, the system forwards the request to another taxi and puts the first one at the bottom of the queue (non functional plus functional to be divided)

Goal

Allow the user to reserve a ride at a specific date and time

Functional Requirements

* The user must be authenticated
* The data inserted by the user must be valid and correct

Goal

Allow some users to share a ride on the same route and the related cost

Functional Requirements