

Glossary

User: is a person who is registered in the database of the application. He has access to all the functions of the program that involves the requiring of a taxi, shared or not. He also has the possibility to save a list of preferred locations, that he can automatically choose when the System require from him an address as starting position or destination.

Guest: is a person who is using the application but is not registered in the database. He has access only to the registration functions.

User Informations: all the information that concern a user; most of them have to be inserted during the registration (Name, Surname, tel. Number, e-mail, password), some of them can be inserted at any time after the registration (such as the personal locations) and others are assigned by the system (for example the number of blank-calls).

Basic User Informations:

Blank Call: we define Blank-call a call for a taxi where the client is not at the starting location when the taxi arrives with a maximum late of X minutes, or a call that the user cancel before X minutes.

Missed Call: we define Missed-call a call for a taxi where the client is not at the starting location when the taxi arrives (X+1) or more minutes late.

Partner: someone who share a run with a user

Pick-up place: the Address where a user asks a taxi to come

Taxi Driver: a registered one

Goals

A user should be able to:

- Sign up to the system (starting as a guest)
- Log in to the system
- Call for a taxi that should pick him up asap
- Be informed by the system when a taxi driver accepts his call and of the estimated waiting time
- Make a reservation for a taxi on specified date and time
- Give his availability for sharing a run
- Add, modify or delete a personal location

A taxi driver should be able to:

- accept or decline a call
- visualize the basic informations about the user who is making a call
- visualize the price for a run

The system should provide a fair management of the calls and efficient and essential communication between drivers and users.

Domain properties

- A taxi can always reach a pick-up place and the users can only choose destinations reachable (and in the controlled zones?)
- A zone can't remain without at least one available taxi
- A taxi driver that accepts a call will take it.
- Gps informations and maps are always updated.

Assumptions

- Two or more users can share a taxi only if their pick up place are in the same zone.
- The taxi drivers have a device on-board to communicate with the system, that shows them the incoming calls and permits them to accept or refuse.
- Every taxi has a gps-signal that can always give their position to the system