

2 overall description:

2.1 Product Perspective

The application we will project is both a web application and mobile application. It will not interact with any other existing application or system. It will be user based and we will not provide any internal interface for administration.

2.2 User Characteristics

People that will use our application are person interested to benefit the taxi's service in the city. They will able to request a taxi for a ride without any voice call but just with few clicks.

2.3 Constraints

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3.2 Functional Requirements

3.2.1 [G1] Register themselves into the system

- |R1| Visitor can only see the homepage.
- |R2| Visitor can only access to the registration form.
- |D1| All the fields must be completed in a formal correct way

3.2.2 [G2] Log into the system

- |R1| User and Driver have to provide valid username a password in order to log in themselves into the system.
- |R2| The wrong insertion of own credentials not allow to log in himself into the system.

3.2.3 [G3] See number of available taxis of the zone he's in

- |R1| The system has to visualize on the personal page the number of taxi available in the zone

3.2.4 [G4] Make a request for a simple ride

- |R1| Users have to insert the correct departure's address
- |D1| The address insert has to be formed by one street and one civic number

3.2.5 [G5] Make a request for a detailed ride

- |R1| Users have to insert the correct departure's address.
- |R2| Users have to insert the correct destination's address.
- |R3| Users have to insert date(HH:MM) of reservation.
- |D1| Addresses insert have to be formed by one street and one civic number

3.2.6 [G6] Set themselves as available

- |R1| The system has to provide a function by which drivers can inform it to their availability.
- |R2| Once they're available, the system has to insert them into the Taxi Queues of own zone.

3.2.7 [G7] Read and accept ride requests

- |R1| The system has to provide function for read and accept request

3.2.8 [G8] Notify passengers after the confirmation of a normal request

- |R1| The system has to notify the user who simple requested a taxi as soon as possible, this means as a taxi is available, informing him about the waiting time.

3.2.9 [G9] Notify passengers 10 minutes before the ride reserved through a detailed request

- |R1| The system has to notify the user who reserved a taxi within ten minutes before the meeting time with the user

3.2.10 [G10] Forward requests to the first taxi in queue

- |R1| The system has to forward request to the first in queue allowing him to accept the request.
- |R2| After a confirm by the driver the system has to move the driver at the end of the queue and set him as not available.

3.2.10 [G11] After 30 seconds, forward the request to the second taxi in queue and put the first at the end

- |R1| After a missed confirmation the system has to move the first driver in queue to the last position and forward the request to second until one driver confirm the request.