**1.Introduction**

**1.1 Purpose**

This document is written following the standard IEEE 830-1998 (RASD) and helps all those who are in charge to develop the software and eventually those programmers who will have to make updates.

This document contains the requirements for the development of the software and some invented scenario as example of the functionalities included in the system.

This document can also be used during the discussion between customer and developer before or during the actual implementation to avoid misunderstadings.

**1.2 Scope**

The main software that will be developed is “myTaxiService”; the aim of this software is to allow people to use better the taxi service already existing in the city both via web application or via smartphone.

The application grants the client to request a taxi or make a reservation 2 hours before the meeting time and the system must ensure a fair management of the taxis in order to avoid some of them wasting time by do nothing. The client doesn’t need to register to request a taxi.

The taxi driver, to be inserted in the queue of the available taxis, must register by inserting name, surname, e-mail address, the number of the license, username and a password; after this, he can login with a username and a password and start working. Eventually, in case of need, the taxi driver can set his state to “Busy” so that the system doesn’t forward requests to him.

In order to improve service and help for future changes, the software allow technicians to develop additional services via programmatic interfaces.

**1.3 Definitions,acronyms and abbrevations**

* Client: whoever needs the taxi service
* Taxi driver: a person whose job is to take people in a car to the place they want to go to in return for money
* Technicians: those people who add additional service

**1.4 References**

* Specification Documents: MyTaxiServices
* IEEE std 830-1998

**1.5 Overview**

This document is composed by 4 main part:

* Part 1 : Intoduction - In this part you can find a initial presentation of this document and all introductory information about the software.
* Part 2 : Overall Description - the second part contains more accurate information about the software.All about constraints,assumptions,interfaces and also information about the users
* Part 3 : Specific requirements - here there are all the information concerning the requirement of the project
* Part 4 : Appendixes - all the supporting information are included in this part

**2.Overall Description**

**2.1 Product perspective**

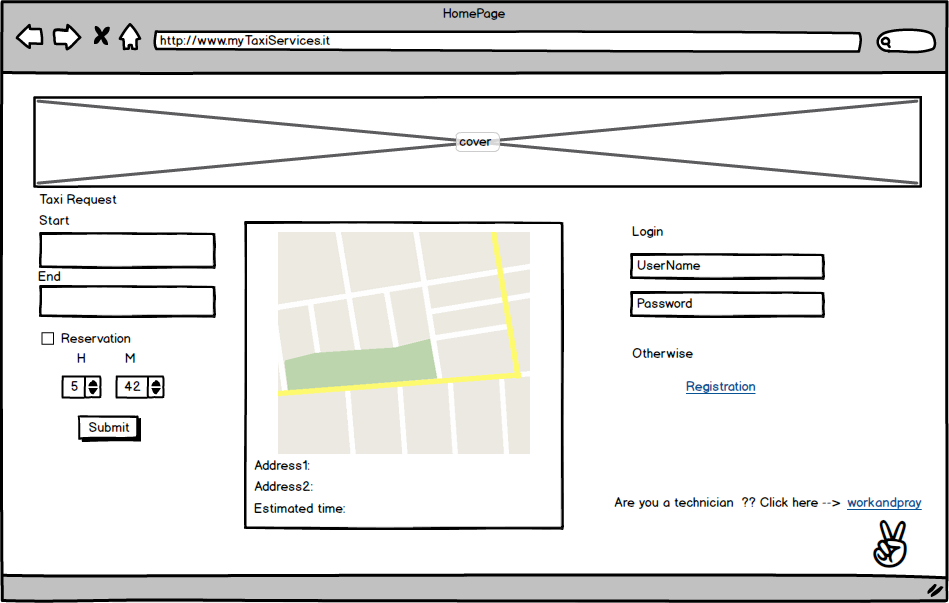
The system consist in a web page and a smartphone app, so it must be available for any browser and an application that works on Android, iOS and Windows phone operative system; this also implies that every taxi driver must have an appropriate smartphone.

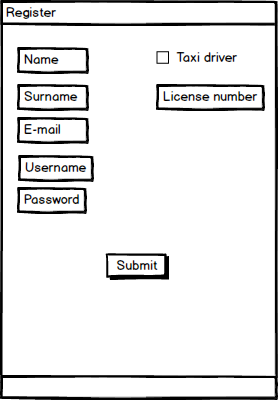
The system is developed without having any kind of support/interaction with other systems, so is totally independentg. Due the fact that the application can be easily updated with the programmatic interface, we don’t exclude an interaction in the future with other systems.

**2.1.1 User interface**

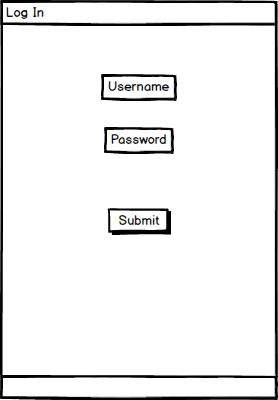
**Homepage**

This is the Homepage of the web application.Here a user can request a ride (normal or reservation)There is the input form for the login and,if you want you there is a link for registration and another one for future implementation of the programmatic interfaces(now you can see only few news about coming idea)



**Registration Page**

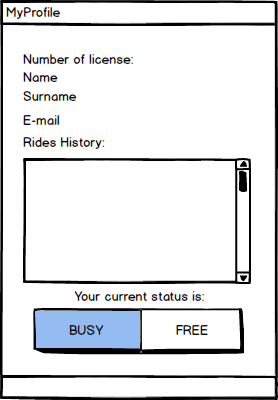
Here there is a example of the registration page (only for the mobile app) This page is equal both for customer and taxi driver.Only taxi driver can fill the field about the license(there will be a control about the validity of the field).The registration is not mandatory to request a ride ,is only additional feature for further funcionalities.



**2.1.1.1 Taxi driver interface**

**Log In:**

This is a standard page for the log in that request username and password to let a registered user to view it’s own profile



**My Profile**

this page contains all the informations about the driver, plus a history of the rides he took.

The buttons below set the state of the taxi and are mutually exclusive (of course can’t be busy and free at the same time).



**Incoming Request**

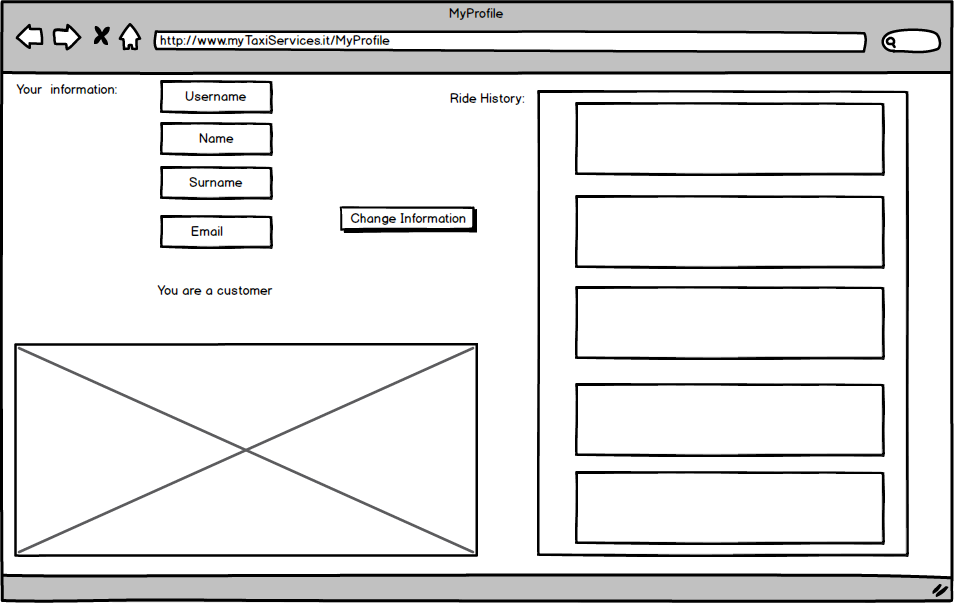
Whenever the system assign a ride to the taxi, both for a simple ride or a reservation, the app shows automatically this window showing the informations about the trip: the taxi driver must send a response within 2 minutes otherwise the window disappear, like he pressed “no”.

If the taxi driver accept the request, the window disappear and goes automatically to “MyProfile” with the status set on “busy”

**2.1.1.2 User Interface**

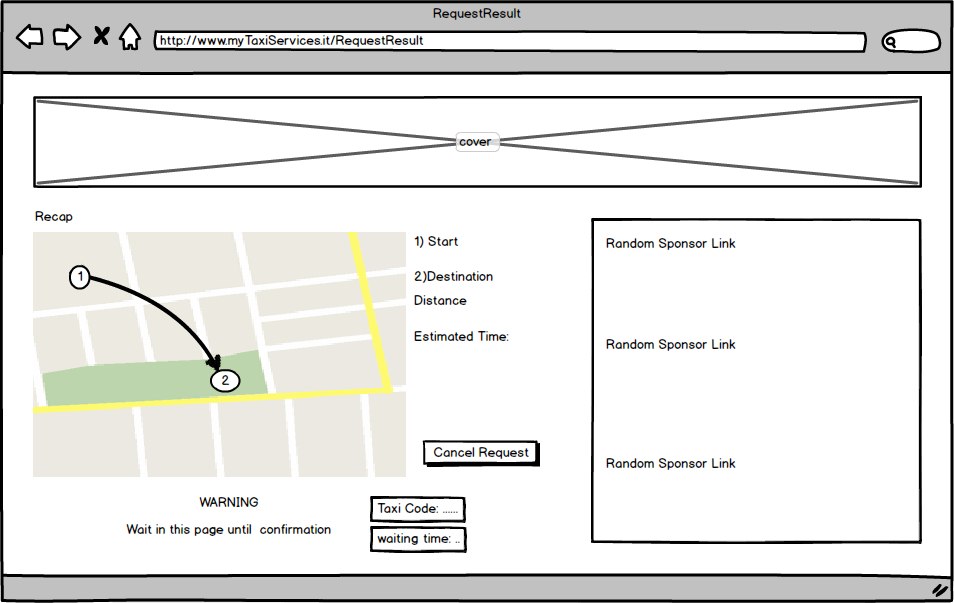
**MyProfile**

Below is represented the profile page of a customer profile (only web app ) which contains all the information.There is also a ride history.In this page a user can also change his information.



**RequestResult**

This page show all information concerning the just made request.After few minutes a customer can see the code of the taxi and the waiting time.If the request is a reservation ,the system only shows a confirmation message and a taxi will be allocated 10 minutes before the meeting time.



2.2 Goals

1. Allow guest to register the application in order to receive upcoming features
2. Allow user/guest to make a reservation
3. Allow user/guest to delete a reservation
4. Allow user/guest to take a ride
5. Allow a taxi driver to accept or decline a request
6. Allow a taxi driver to set its own state
7. Allow the system to allocate correctly a taxi based on the currently location
8. The application send a response in any case
9. Allow user to change his information