

**Requirements Analysis**

**And**

**Specification Document**

Authors:

Giovanni Bucci

Riccardo De Togni

1. **Introduction**
   1. **Description of the Problem**

The aim of the project is to improve taxi services of large cities. The objective is on one hand to simplify the access by users, making bookings easier and faster, and on the other hand to grant fairness in queue assignment for taxies.

The system should be able to register two main consumer categories: User and Taxi Driver. A Taxi Driver has to be registered in order to access the service, so it can communicate its availability and accept or deny a request.

An unregistered User could call a taxi just giving its identification data, without a regular access and even without a formal registration.

A Registered User could obviously call a taxi, once it accessed the system, and also book it in advance, providing starting and arriving point.

This is the peculiarity of this product, because it implements a feature that does not exist in the actual taxi service. In fact, it is impossible to reserve a taxi well in advance.

* 1. **Goals**

The system will provide the following features, grouped by user category:

* + - User
      * Sign Up into the system
      * Log into the system
      * Book a Taxi in advance
      * Call a taxi
    - Taxi Driver
      * Sign Up into the system
      * Log into the system
      * Give/Remove availability (Take place into a queue)
      * Respond to a request (Accept or Deny)
    - The system should track out the position of each Taxi and User in different moment for each one:
      * When a Taxi driver gives its availability
      * When User request for a Taxi
  1. **Domain Properties**