Politecnico Di Milano



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Software Engineering 2:

”myTaxiService”

Requirements Analysis and Specifications Document

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# Introduction

## Purpose

This document represents the Requirement Analysis and Specification Document (RASD). The main goal of this document is to completely describe the system in terms of functional and non-functional requirements found by analysing the real needs of the customer.

In addition, this document outlines the constraints and the limits of the software and describes the typical use cases that will occur after the deployment.

This document is intended for all the developers and for the system analysts that need to integrate other systems with ours. It also could be used as a contractual basis between the customer and the developers.

## Scope

The aim of the project is to create a brand new system for the management and organization of a city taxi service. This system offers a mobile application and a web interface in order to give the customer the possibility to benefit from the taxi service. Furthermore, the system provides an additional communication interface for the taxi driver.

The mobile application and the web interface accept requests and reservations for taxis from the users, with the possibility to organise a share ride among different users. The taxi driver is supposed to communicate his availability, acceptances and rejections of requests through the communication interface.

The system is created to simplify the access of passengers to the service, and to guarantee a fair management of taxi queues.

## Definitions, acronyms, and abbreviations

## Actors

1. Person: A generic person who is neither registered nor authenticated.
2. Registered User: A person who is registered to the service.
3. Authenticated User: A person who is authenticated to the service.
4. Passenger: A person who is currently on a taxi ride.
5. Taxi Driver: The person who drives a taxi.
6. System: The software that manages the application interaction between all the actors.

## Goals

1. Allow a user to register and authenticate to the service
2. Allow the user to request a taxi. Inform the taxi driver of the request and the position of the passenger.
3. Manage the taxis in order to fulfil all the requests.
4. Allow the user to reserve a ride at a specific date and time.
5. Allow some users to share a ride on the same route and the related cost.

## Document Overview

# Overall Description

## Product perspective

The product is not integrated with other existing systems. The product will not have any internal interface for administration but it will be only user based. However, the product will provide an interface or API for the integration with future projects.