

**D**esign **D**ocument **(DD)**

Computer Science and Engineering (CSE)

Software Engineering 2 Project

Year 2015/16

*Date: 04/12/2015 – Version: 1.0*



**STUDENTS:**

*Martino Andrea (****788701****)*

*Marchesani Francesco (****852444****)*

**PROFESSOR:**

*Mirandola Raffaela*

# Table of Contents

1. Table of Contents 2

2. Introduction 3

2.1. Purpose 3

2.2. Scope 4

2.3. Definitions, Acronyms, Abbreviations 4

2.4. Reference Documents 4

2.5. Document Structure 5

3. Architectural Design 5

3.1. Overview 5

3.2. High level components and their interaction 5

3.3. Component View 5

3.4. Deployment View 5

3.5. Runtime View 5

3.6. Component interfaces 5

3.7. Selected architectural styles and patterns 5

3.8. Other design decisions 5

4. Algorithm design 5

5. User Interface Design 6

6. Requirements Traceability 6

7. References 6

7.1. References list 6

# Introduction

## Purpose

This **Design Document** contains information about the **architecture** and other features of *myTaxiService design* such as **high-level** **algorithms** and **user interface** (with recalls from the previous **RASD**). In order to maintain a **modular** and **scalable** system for the future, we will enter in details only if strictly necessary (otherwise, we will keep a higher level of abstraction).

This **document** is coherent with *the official template* of the project on the *Beep platform*.

As we said for the **RASD**, it is important to underline that some parts of this document may evolve in the future (this may occurs for several causes).

Anyway, we will try to maintain coherence as much as possible.

Here is a resume of the steps of the project, with the related deadlines:

## Scope

The main scope of this **DD** (*Design Document*) is to give an overall guidance to the **architecture** of the **project**, which is *myTaxiDriver* (**Software Engineering 2 project** of year 2015/16 - **Politecnico di Milano**).

We described the main **goals** and **objectives** of the project in the previous *Requirements Analysis and Specification Document*.

## Definitions, Acronyms, Abbreviations

* **DD:** *Design Document*
* **RASD**: *Requirements Analysis and Specification Document*
* **mTS**: *myTaxiService*

## Reference Documents

The main reference document is the **Requirements Analysis and Specification Document (RASD)** of *myTaxiService*.

## Document Structure

# Architectural Design

## Overview

## High level components and their interaction

## Component View

## Deployment View

## Runtime View

## Sequence Diagrams Here

## Component interfaces

## Selected architectural styles and patterns

## Other design decisions

# Algorithm design

# User Interface Design

# Requirements Traceability

# References

## References list

Here is a short list of the **references** for this **Design Document**:

* *Slides of the Software Engineering 2 course (from the* ***Beep Platform****)*
* *Design Document Template* *(by Prof. Raffaela Mirandola)*
* *Software Engineering: Principles and Practice (Hans Van Vliet)*