myTaxiService
Project **P**lan **D**ocument
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1 Introduction

1.1 Purpose

This document represents the Project Plan Document.
It specifies the effort and cost estimation of the myTaxiService project, by using the Function Points and COCOMO algorithmic techniques. Moreover, there is the explanation of the organization of the resources and of the tasks needed.
The intended audience of this document is the project stakeholders and the development team.

1.2 Definitions and abbreviations

- **Definitions**

  - **Passenger**: a person who is registered in the application.

  - **Taxi driver**: a taxi driver who access the application with a specific ID.

  - **Request**: the request of a taxi in a certain area and position in the city made by a user.

  - **Reservation**: the reservation of a taxi in a certain area, place and time that can be made only by passengers.

- **Acronyms and abbreviations**

  - **RASD**: Requirement Analysis and Specification Document

  - **DD**: Design Document

  - **JVM**: Java Virtual Machine

  - **FP**: Function Points

  - **COCOMO**: COnstructive COst MOdel

1.3 Reference documents

- Project Description and Rules (`https://github.com/MichelaCattaneo/myTaxiService/blob/master/Project%20Description%20And%20Rules.pdf`)

- Requirements Analysis and Specification Document (`https://github.com/MichelaCattaneo/myTaxiService/blob/master/Deliveries/RASD_1.1.pdf`)

- Design Document (`https://github.com/MichelaCattaneo/myTaxiService/blob/master/Deliveries/DD.pdf`)

- Code Inspection Document(`https://github.com/MichelaCattaneo/myTaxiService/blob/master/Deliveries/CodeInspection.pdf`)

- Integration Test Document (`https://github.com/MichelaCattaneo/myTaxiService/blob/master/Deliveries/ITPD.pdf`)

2 Effort and Cost Estimation

2.1 Function Points

2.2 COCOMO

3 Task Scheduling

The tasks for our project are:

- **T1** RASD: this is the first task to do. It describes what exactly we have to do: requirements, interfaces, model of the Database and how our application should work.

- **T2** Design Document: it describes the architectural design of our system and it could be done at the same time of the T3.

- **T3** Database: based on the model descried on the RASD, in this task we create all the tables in the database.

- **T4** Interfaces: based on what we wrote on the RASD, in this task we create the interfaces for the client side.

- **T5** Requirements: in this task we develop the logic of the requirements on the server side (for example: the AccessManager component that manages the login and the registration, the RequestManager that manages the requests, the reservations and the notifications)

- **T6** Code Inspection: check if the code is well formatted.

- **T7** Code Inspection Document: in this task we write document of the code inspection.

- **T8** Test Document: in this task we write the document related on the strategy we adopt for the unit testing, the integration testing and the system testing.

- **T9** Unit Testing: based on what we wrote on the test document, in this task we do the unit testing.

- **T10** Integration Testing: based on what we wrote on the test document, in this task we do the integration test.

- **T11** System Testing: based on what we wrote on the test document, in this task we do the system testing.

Task	Effort(person)	Dependencies
T1	2	-
T2	1	T1
T3	1	T1
T4	1	T2
T5	1	T3
T6	2	T4,T5
T7	1	T6
T8	1	T6
T9	1	T8
T10	1	T8
T11	2	T10,T9

4 Resources Allocation

The members of the team can be allocated to the tasks in this way:

- **Task 1**: we can allocate all the resources (two people) to this task because without it we cannot start the next tasks. In fact we allocate all the resources to the RASD to accelerate it and to start as soon as possible the other tasks.

- **Task 2**: we allocate one person to the Design Document

5 Risks and Recoveries

6 Appendix

6.1 Software and tool used

- TeXstudio (`http://www.texstudio.org/`): to redact and to format this document.

6.2 Hours of work

Time spent redacting this document:

- Cattaneo Michela Gaia: ∼␣ hours of work.

- Barlocco Mattia: ∼␣ hours of work.