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1. Introduction

1.1 Purpose

The Introduction Test Planning Document [ITPD] describes the test planning of the integration of the components. These components are described in details in the Design Document [DD] in paragraph 2.2.

The purpose of this document is to test how these components interface each other for improving this interaction.

1.2 Scope

The scope is the same described in the Design Document [DD] in chapter 1.2.

1.3 List of definitions and abbreviations

Definitions

**Reservation:** it’s the ability to reserve an available car for up to 1 hour, provided

only for registered user. For reserve a car the user must choose the available car from the map and click on it. For use this service, user must be logged on web/mobile app.

**Reservation Timer:** this timer count how much time remain for open the car.

**Unlock Car Button:** it’s a button on the mobile app that allow the system to check the user position and the reservation for unlock the car.

**Safe Area:** every zone where it’s possible park the car safely.

**Power Grid Area:** special safe area where it’s possible park the car safely and user takes care of plugging the car into power grid if he wants.

**Plugging Time:** the time that the user has to plug the car before the system create the bill.

**Bill:** Amount of cost that the user must pay for the ride, discount and/or fee included.

**System:** it’s the new system that we want implement. The system interacts with user for providing services, External Agency for payment, cars for receive ride data. A piece of system software is installed into each car, so in this way the system and the cars can communicate and send data.

**External Agency:** It’s an agency that provides all type of payments service, when user must pay a fee or pays a ride. Interact with system for receive the amount to subtract on user bank account.

**User:** he is a client of the service. His personal data is already memorized into the database system (already registered on system), the personal data inserted: Name, Surname, E-mail, Birth Date, Driving License number, Credit card number.

**Discount:** it’s a reward for good behavior.

**Ride:** service provided by the system that allow to engine ignites and start to charging the user for a given amount of money per minute.

**Fee:** amount of money that the user pays in addiction, fee can be assigned through missed reservation or bad behaviors.

**Car:** an automobile, in each car we have a screen and a GPS for provide services. Car send to the system the data of the ride.

Abbreviations

**API:** Application Programming interface.

**Rasd**: Requirements analysis and specification document.

**MVC**: Model view controller.

**DD:** Design document.

**ITPD:** Integration test plan document.

1.4 Reference Documents

For creating this ITPD we used

* Structure of Document: Assignments2016/2017.pdf
* Example: TP.pdf
* Example: Integration Test Plan Example.pdf
* Verification and validation part I.pdf
* Verification and validation part II.pdf

1.5 Overview

In the second chapter the items to be tested are mentioned. A specification for each test case is given in the third chapter. The fourth chapter specifies the procedures for these test cases. In the fifth chapter the reports for all test cases are presented.