



PowerEnJoy
Software Engineering II

Integration Test Plan Document

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Section 1

Introduction

1.1 Purpose and Scope

1.1.1 Purpose

The Integration Test Plan Document (ITPD) is intended to provide the guidelines to accomplish the integration test phase planning in sufficient detail. This also includes determining which tools are needed and will be used during the testing process itself, as well as the required stubs, drivers and data structures that will be useful during said process.

1.1.2 Scope

PowerEnJoy is a car sharing service that only employs electric vehicles; it is provided for a large city, and aims to support the sharing process and car management of the electric cars, as well as the booking and payments for the service itself.

1.2 Definitions, Acronyms, Abbreviations

RASD: Requirements and Specification Document.

DD: Design Document.

ITPD: Integration Test Plan Document.

1.3 Reference Documents

The indications provided in this document are based on the ones stated in the previous deliverables for the project, the RASD document [1] and the DD document [2].

Moreover it is strictly based on the test plan example [4] presented during lectures and on the specifications concerning the RASD assignment [3] for the Software Engineering II project, part of the course held by professors Luca Mottola and Elisabetta Di Nitto at the Politecnico di Milano, A.Y. 2016/17.

Section 2

Integration Strategy

2.1 Entry Criteria

2.2 Elements to be Integrated

2.3 Integration Testing Strategy

2.4 Sequence of Components/Function Integration

Section 3

Individual Steps and Test Description

Section 4

Tools and Test Equipment Required

Section 5

Program Stubs and Test Data Required

Appendix A

Appendix

A.1 Software and tools used

- L^AT_EX, used as typesetting system to build this document.
- draw.io - <https://www.draw.io> - used to draw diagrams and mock-ups.
- GitHub - <https://github.com> - used to manage the different versions of the document and to make the distributed work much easier.
- GitHub Desktop, the GitHub official application that offers a seamless way to contribute to projects.

A.2 Hours of work

The absolute major part of the document was produced in group work. The approximate number of hours of work for each member of the group is the following:

- Giovanni Scotti:
- Marco Trabucchi:

NOTE: indicated hours include the time spent in group work.

Bibliography

- [1] AA 2016/2017 Software Engineering 2 - *Requirements Analysis and Specification Document* - Giovanni Scotti, Marco Trabucchi
- [2] AA 2016/2017 Software Engineering 2 - *Design Document* - Giovanni Scotti, Marco Trabucchi
- [3] AA 2016/2017 Software Engineering 2 - *Project goal, schedule and rules*
- [4] SpinGrid Project - *Integration Test Plan*