



POLITECNICO DI MILANO

SOFTWARE ENGINEERING II

SAFESTREETS -
REQUIREMENTS ANALYSIS AND
SPECIFICATION DOCUMENT

Version 1.0

Authors

Iacopo MARRI

Manuel SALAMINO

Steven Alexander SALAZAR MOLINA

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1 Introduction

The Requirement Analysis and Specification Document (RASD) aims to focus on the tasks needed to develop and implement an application, taking account of the requirements of the involved stakeholders and, analyzing and documenting also the application requirements.

In the second part of the document there is a more formal definition of the requirements with the use of the Alloy language.

This document is meant for developers tasked with the implementation of the System and also for all the other entities involved in validation and managing of the project.

1.1 Purpose

1.2 Scope

1.3 Definitions, Acronyms, Abbreviations

1.4 Revision history

1.5 Reference Documents

1.6 Document Structure

2 Overall Description

2.1 Product perspective

2.2 Product functions

2.3 User characteristics

2.4 Assumptions, dependencies and constraints

3 Specific Requirement

3.1 External Interface Requirements

3.1.1 User Interfaces

3.1.2 Hardware Interfaces

3.1.3 Software Interfaces

3.1.4 Communication Interfaces

3.2 Functional Requirements

3.3 Performance Requirements

3.4 Design Constraints

3.4.1 Standards compliance

3.4.2 Hardware limitations

3.4.3 Any other constraint

3.5 Software System Attributes

3.5.1 Reliability

3.5.2 Availability

3.5.3 Security

3.5.4 Maintainability

3.5.5 Portability

4 Formal Analysis using Alloy

5 Effort Spent

6 References