



POLITECNICO
MILANO 1863

SCUOLA DI INGEGNERIA INDUSTRIALE
E DELL'INFORMAZIONE

Software Engineering 2

Requirements Analysis and Specification Document

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1 | Introduction

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1.1. Purpose

1.1.1. Goals

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1.2. Scope

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1.2.1. World Phenomena

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1.2.2. Shared phenomena

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1.3. Definition, Acronyms, Abbreviations

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1.4. Revision history

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1.5. Reference Documents

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1.6. Document Structure

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2 | Overall Description

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2.1. Product perspective

2.1.1. Scenarios

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2.1.2. Class diagrams

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2.1.3. State diagrams

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2.2. Product functions

2.2.1. Requirements

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2.2.2. Use cases

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2.3. User characteristic

2.4. Assumptions, dependencies and constraints

2.4.1. Domain assumptions

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3 | Specific Requirements

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3.1. External interface requirements

3.1.1. User interfaces

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3.1.2. Hardware interfaces

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3.1.3. Software interfaces

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3.1.4. Communication interfaces

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3.2. Functional requirements

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3.2.2. Mapping on goals

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3.2.3. Use case diagrams

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3.3. Performance requirements

3.4. Design constraints

3.4.1. Standard compliance

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3.4.2. Hardware limitations

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3.4.3. Any other constraints

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3.5. Software system attributes

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3.5.1. Reliability

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3.5.2. Availability

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3.5.3. Security

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3.5.4. Maintainability

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3.5.5. Portability

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4 | Formal Analysis Using Alloy

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5 | Effort Spent

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6 | References

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