Politecnico di Milano

Department of Computer Science and Engineering

Software Engineering 2

CLup – Customers Line-up Requirements Analysis and Specification Document

October 22, 2020

Author
Damiano Derin

Author
Jas Valencic

Contents

1 Introduction **1**
- 1.1 Purpose . . . 1
- 1.2 Scope . . . 1
- 1.3 Definitions, Acronyms, Abbreviations . . . 1
- 1.4 Revision History . . . 1
- 1.5 Reference Documents . . . 1
- 1.6 Documents Structure . . . 1

2 Overall Description **2**
- 2.1 Product Perspective . . . 2
- 2.2 Product Functions . . . 2
- 2.3 User Characteristics . . . 2
- 2.4 Assumptions, Dependencies and Constraints . . . 2

3 Specific Requirements **3**
- 3.1 External Interface Requirements . . . 3
  - 3.1.1 User Interfaces . . . 3
  - 3.1.2 Hardware Interfaces . . . 3
  - 3.1.3 Software interfaces . . . 3
  - 3.1.4 Communications Interfaces . . . 3
- 3.2 Functional Requirements . . . 3
- 3.3 Performance Requirements . . . 3
- 3.4 Design Constraints . . . 3
  - 3.4.1 Standard Compliance . . . 3
  - 3.4.2 Hardware limitations . . . 3
  - 3.4.3 Any Other Constraint . . . 3
- 3.5 Software System Attributes . . . 3
  - 3.5.1 Reliability . . . 3
  - 3.5.2 Availability . . . 3
  - 3.5.3 Security . . . 3
  - 3.5.4 Maintainability . . . 3
  - 3.5.5 Portability . . . 3

4 Formal Analysis Using Alloy **4**

5 Effort Spent **5**

6 References **6**

Chapter 1

Introduction

1.1 Purpose

1.2 Scope

1.3 Definitions, Acronyms, Abbreviations

1.4 Revision History

1.5 Reference Documents

1.6 Documents Structure

Chapter 2

Overall Description

2.1 Product Perspective

2.2 Product Functions

2.3 User Characteristics

2.4 Assumptions, Dependencies and Constraints

Chapter 3

Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

3.1.2 Hardware Interfaces

3.1.3 Software interfaces

3.1.4 Communications Interfaces

3.2 Functional Requirements

3.3 Performance Requirements

3.4 Design Constraints

3.4.1 Standard 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

Chapter 4

Formal Analysis Using Alloy

Chapter 5

Effort Spent

Chapter 6

References