
SOFTWARE REQUIREMENTS SPECIFICATION

for

<Project>

Version 1.23.3 approved

Prepared by <author>

<Organization>

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Revision History

Name	Date	Reason For Changes	Version
J.-M. Bruel	2021-01-22	First Draft	1.0
J.-M. Bruel	2023-01-28	Check after publication of the Handbook	1.23
J.-M. Bruel	2023-06-12	Add reqs automated numbering	1.23.1
J.-M. Bruel	2023-08-25	Add Minimum Requirements Outcome Principle	1.23.3
J.-M. Bruel	2023-12-22	Remove section numbers	1.23.3

This document follows the requirements book structure presented in the [Handbook of requirements and business analysis](#), by Bertrand Meyer.

Contents

1 Goals

Comment: *Goals are "needs of the target organization, which the system will address". While the development team is the principal user of the other books, the Goals book addresses a wider audience: essentially, all stakeholders.*

G.1 Context and overall objective

Comment: *High-level view of the project: organizational context and reason for building a system. This chapter should not be empty!*

Goal 1.0.1. This is a goal example. If you need explicit (and automatic) numbering, you can use the definitions in the `.tex` template. Is refined by ??

Requirement 1.0.4. *This is a requirement example. It illustrates how numbering is continuous and cross-types (if this is what you need).*

G.2 Current situation

Comment: *Current state of processes to be addressed by the project and the resulting system.*

Requirement 1.0.3. *This is a requirement example. It refines ??*

G.3 Expected benefits

Comment: *New processes, or improvement to existing processes, made possible by the project's results. This chapter should not be empty!*

G.4 Functionality overview

Comment: *Overview of the functions (behavior) of the system. Principal properties only (details are in the System book).*

G.5 High-level usage scenarios

Comment: *Fundamental usage paths through the system.*

G.6 Limitations and exclusions

Comment: *Aspects that the system need not address.*

G.7 Stakeholders and requirements sources

Comment: *Groups of people who can affect the project or be affected by it, and other places to consider for information about the project and system. This chapter should not be empty!*

2 Environment

Comment: *The Environment book describes the application domain and external context, physical or virtual (or a mix), in which the system will operate.*

E.1 Glossary

Comment: *Clear and precise definitions of all the vocabulary specific to the application domain, including technical terms, words from ordinary language used in a special meaning, and acronyms. This chapter should not be empty!*

E.2 Components

Comment: *List of elements of the environment that may affect or be affected by the system and project. Includes other systems to which the system must be interfaced.*

E.3 Constraints

Comment: *Obligations and limits imposed on the project and system by the environment. This chapter should not be empty!*

E.4 Assumptions

Comment: *Properties of the environment that may be assumed, with the goal of facilitating the project and simplifying the system.*

E.5 Effects

Comment: *Elements and properties of the environment that the system will affect.*

E.6 Invariants

Comment: *Properties of the environment that the system's operation must preserve.*

3 System

Comment: *The System book refines the Goal one by focusing on more detailed requirements about the system under development, mainly its constituents, behaviors and properties.*

S.1 Components

Comment: *Overall structure expressed by the list of major software and, if applicable, hardware parts. This chapter should not be empty!*

S.2 Functionality

Comment: *One section, S.2.n, for each of the components identified in S.2, describing the corresponding behaviors (functional and non-functional properties). This chapter should not be empty!*

S.3 Interfaces

Comment: *How the system makes the functionality of S.2 available to the rest of the world, particularly user interfaces and program interfaces (APIs).*

S.4 Detailed usage scenarios

Comment: *Examples of interaction between the environment (or human users) and the system: use cases, user stories.*

S.5 Prioritization

Comment: *Classification of the behaviors, interfaces and scenarios (S.2, S.3 and S.4) by their degree of criticality.*

S.6 Verification and acceptance criteria

Comment: *Specification of the conditions under which an implementation will be deemed satisfactory.*

4 Project

Comment: *The Project book describes all the constraints and expectations not about the system itself, but about how to develop and produce it.*

P.1 Roles and personnel

Comment: *Main responsibilities in the project; required project staff and their needed qualifications.*

P.2 Imposed technical choices

Comment: *Any a priori choices binding the project to specific tools, hardware, languages or other technical parameters.*

P.3 Schedule and milestones

Comment: *List of tasks to be carried out and their scheduling. This chapter should not be empty!*

P.4 Tasks and deliverables

Comment: *Details of individual tasks listed under P.3 and their expected outcomes. This chapter should not be empty!*

P.5 Required technology elements

Comment: *External systems, hardware and software, expected to be necessary for building the system.*

P.6 Risks and mitigation analysis

Comment: *Potential obstacles to meeting the schedule of P.4, and measures for adapting the plan if they do arise.*

P.7 Requirements process and report

Comment: *Initially, description of what the requirements process will be; later, report on its steps.*