Title

Version: 2023-08-25

**Changelog**

| 2021-04-26 | Very first draft – by JMB |
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| 2023-01-28 | Check after [Handbook](https://se.inf.ethz.ch/requirements/) publication – by JMB  Changes in the following titles: G.1, P.1 to P.5 |
| 2023-08-25 | Integrate the Minimum Requirements Outcome Principle, by JMB |
| 2023-09-01 | Add numbering, details and bookmarks, by JMB |
|  |  |

*⚠️ This document follows the requirements book structure presented in the* [*Handbook of requirements and business analysis*](https://link.springer.com/content/pdf/10.1007/978-3-031-06739-6.pdf)*.*

This requirements template was prepared by Prof. Jean-Michel Bruel, University of Toulouse. Small adjustments were made for Constructor Institute projects.

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# Goals

*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 objectives

*High-level view of the project: organizational context and reason for building a system.*

⚠️ *This section should not be empty!*

1. Here is an example of numbered requirement (see also [this one](#1fob9te)).
2. Here is an example of more precise numbering
3. keep the formatting

## G.2 Current situation

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

1. Here is an example of reset numbering.

## G.3 Expected benefits

*New processes, or improvement to existing processes, made possible by the project’s results.*

⚠️ *This section should not be empty!*

## G.4 Functionality overview

*Overview of the functions (behavior) of the system. Principal properties only.*

## G.5 High-level usage scenarios

*Fundamental usage paths through the system.*

## G.6 Limitations and exclusions

*Aspects that the system need not address.*

## G.7 Stakeholders and requirements sources

*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 section should not be empty!*

# Environment

*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

*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.*

## E.2 Components

*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

*Obligations and limits imposed on the project and system by the environment.*

⚠️ *This section should not be empty!*

*Comment.*

## E.4 Assumptions

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

## E.5 Effects

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

## E.6 Invariants

*Properties of the environment that the system’s operation must preserve.*

# System

*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

*Overall structure expressed by the list of major software and, if applicable, hardware parts.*

⚠️ *This section should not be empty!*

## S.2 Functionality

*One section, S.2.n, for each of the components identified in S.2, describing the corresponding behaviors (functional and non-functional properties).*

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## S.3 Interfaces

*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

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

## S.5 Prioritization

*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

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

# Project

*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

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

## P.2 Imposed technical choices

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

## P.3 Schedule and milestones

*List of tasks to be carried out and their scheduling.*

⚠️ *This section should not be empty!*

## P.4 Tasks and deliverables

*Details of individual tasks listed under P.3 and their expected outcomes.*

⚠️ *This section should not be empty!*

## P.5 Required technology elements

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

## P.6 Risks and mitigation analysis

*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

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

Approved by: Signature

Date: