# Software Requirements Specification

# Version <1.0>

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# Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| <dd/mmm/yy> | <x.x> | <details> | <name> |
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# Software Requirements Specification

# Introduction

[The introduction of the **Software Requirements Specification (SRS)** provides an overview of the entire **SRS**. It includes the purpose, scope, definitions, acronyms, abbreviations, references, and overview of the **SRS**.]

[Note: The **SRS** document captures the complete software requirements for the system, or a portion of the system. Following is a typical **SRS** outline for a project using only traditional, natural-language style requirements—with **no use-case modeling.** It captures all requirements in a single document, with applicable sections inserted from the Supplementary Specifications (which would no longer be needed). For a template of an **SRS** using use-case modeling, which consists of a package containing Use Cases of the use-case model and applicable Supplementary Specifications and other supporting information, see rup\_srsuc.dot.]

[Many different arrangements of an **SRS** are possible. Refer to [IEEE830-1998] for further elaboration of these explanations, as well as other options for **SRS** organization.]

## Purpose

[Specify the purpose of this **SRS**. The **SRS** fully describes the external behavior of the application or subsystem identified. It also describes nonfunctional requirements, design constraints, and other factors necessary to provide a complete and comprehensive description of the requirements for the software.]

## Scope

[A brief description of the software application that the **SRS** applies to, the feature or other subsystem grouping, what Use-Case model(s) it is associated with, and anything else that is affected or influenced by this document.]

## References

[This subsection provides a complete list of all documents referenced elsewhere in the **SRS**. Identify each document by title, report number if applicable, date, and publishing organization. Specify the sources from which the references can be obtained. This information may be provided by reference to an appendix or to another document.]

# Overall Description

[This section of the **SRS** describes the general factors that affect the product and its requirements. This section does not state specific requirements. Instead, it provides a background for those requirements, which are defined in detail in Section 3, and makes them easier to understand. Include such items as: product perspective; product functions; user characteristics; constraints; assumptions and dependencies; requirements subsets]

# Specific Requirements

[This section of the **SRS** contains all software requirements to a level of detail sufficient to enable designers to design a system to satisfy those requirements, and testers to test that the system satisfies those requirements. When using use-case modeling, these requirements are captured in the Use Cases and the applicable supplementary specifications. If use-case modeling is not used, the outline for supplementary specifications may be inserted directly into this section, as shown below.]

## Functional requirements

[This section describes the functional requirements of the system for those requirements that are expressed in the natural language style.]

### RF1 <Functional Requirement One...>.

Kind: [user/system; essencial/ condicional/ opcional; stable/instable]

### RF2 <Functional Requirement Two...>

Kind: [user/system; essencial/ condicional/ opcional; stable/instable]

### RF3 …

Kind: [user/system; essencial/ condicional/ opcional; stable/instable]

## Non-Functional Requirement

[This section includes all those non-functional requirements (e.g. reliability, robustness, performance, usability, verifiability, maintainability, reusability, portability, interoperability, and/or security)]

### RNF1 <Non-Functional Requirement One...>.

Kind: [reliability,/robustness/performance/usability...]

### RNF2 <Non-Functional Requirement Two...>

Kind: [reliability,/robustness/performance/usability...]

### RNF3 …

Kind: [reliability,/robustness/performance/usability...]

## business rules (domain requirements)

[This section includes all those business rules (domain requirements)]

### RN1 <Domain Requirement One...>.

Note: [constraints; assumptions and dependencies;...]

### RN2 <Domain Requirement Two...>

Note: [constraints; assumptions and dependencies;..]

### RN3 …

Note: [constraints; assumptions and dependencies;...]

# Requirements traceability

[This section present the traceability (assumptions and/or dependencies) between Functional Requirements and Non-Functional Requirements as well as between Functional Requirements and Business Requirements.

It is not necessary to inform any additional text in this section, just fill both traceability tables]

## Functional vs. Non-Functional Requirements Traceability (RF x RNF)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Functional requirements** | **Non-Functional Requirements** | | | | | | | |
| **RNF1** | **RNF2** | **...** |  |  |  |  |  |
| **RF1** | x |  |  |  |  |  |  |  |
| **RF2** |  |  |  |  |  |  |  |  |
| **RF3** | x |  |  |  |  |  |  |  |
| **...** |  | x | x |  |  |  |  |  |

## Functional vs. Domain Requirements Traceability (RF x RN)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Functional requirements** | **Domain Requirements** | | | | | | | |
| **RN1** | **RN2** | **...** |  |  |  |  |  |
| **RF1** | x |  |  |  |  |  |  |  |
| **RF2** |  |  |  |  |  |  |  |  |
| **RF3** | x |  |  |  |  |  |  |  |
| **...** |  | x | x |  |  |  |  |  |