
System Requirements Specification

Template

NOTE: Please remove this page when creating a System Requirements Specification deliverable

Using This Template

The companion tool, **System Requirements Specification Instructions**, provides detailed direction for completing this template. This and other Framework Extension tools are available on the Framework Web site.

To create a deliverable from this template:

1. Delete the template title page (previous page) and this page.
2. Replace [bracketed text] on the cover page (next page) with your project and agency information.
3. Replace [bracketed text] in the tool header area at the top of page i (Contents page) with the same project and agency information as on the cover page.

Note: Please do not remove or modify content in the footer area.

4. Complete the entire template. Each section contains abbreviated instructions, shown in italics, and a content area. The content area is marked with a placeholder symbol (\Rightarrow) or with a table. Relevant text from other project deliverables may be pasted into content areas.

Note: Please do not remove the italicized instructions.

5. Update the table of contents by right-clicking and selecting "Update Field," then "Update entire table."

SYSTEM REQUIREMENTS SPECIFICATION

[Agency/Organization Name]
[PROJECT NAME]

VERSION: [Version Number]

REVISION DATE: [Date]

Approver Name	Title	Signature	Date

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Section 1. Introduction

1.1 Purpose

Specify the purpose of this System Requirements Specification (SyRS) and its intended audience.

⇒

1.2 Business Context

Provide an overview of the business organization sponsoring the development of the system, including the mission statement and organizational objectives of the business unit.

⇒

1.3 Scope

Describe the scope of the system to be produced.

⇒

1.4 User Characteristics

Identify each type of user of the system by function, location, and type of device. Specify the number of users in each group and the nature of their use of the system.

⇒

Section 2. General System Description

2.1 System Context

Provide appropriate diagrams and accompanying narratives to provide an overview of the context of the system, defining all significant interfaces crossing the system's boundaries.

⇒

2.2 System Modes and States

Describe the various modes of operation for the system and the conditions that determine the modes of operation.

⇒

2.3 Major System Capabilities

Provide diagrams and accompanying narratives to depict major capability groupings of the requirements.

⇒

2.4 Major System Conditions

Specify major conditions and their associated capabilities.

⇒

2.5 Major System Constraints

Describe major constraints of the system.

⇒

2.6 Assumptions

Describe the assumptions that can affect the requirements specified in this SyRS.

⇒

2.7 Dependencies

Describe the dependencies that can affect the requirements specified in this SyRS.

⇒

2.8 Operational Scenarios

Provide descriptive operational scenarios for the system.

⇒

Section 3. System Capabilities, Conditions, and Constraints

3.1 Business Requirements

Describe all business requirements for the system.

⇒

3.2 Functional Requirements

Customize this subsection to contain the subsections necessary to comprehensively define the fundamental actions that must take place within the system to accept and process the inputs and to process and generate the outputs.

Subsection templates for each of the means of specifying functional requirements are provided below.

3.2.nf Function X

When functional decomposition is used as the means of specifying the functional requirements, provide a 3.2.nf subsection for each function. Each 3.2.nf subsection should be labeled and titled appropriately for a specific function, where nf is the appropriate sequential subsection number and X is the name of the specific function.

3.2.nf.1 Function X Purpose

Describe the intent of the function.

⇒

3.2.nf.2 Function X Inputs

Describe the inputs to the function, including sources, valid ranges of values, timing considerations, operator requirements, and special interfaces.

⇒

3.2.nf.3 Function X Operations

Describe the operations to be performed within the function, including validity checks, responses to abnormal conditions, and types of processing required.

⇒

3.2.nf.4 Function X Outputs

Describe the outputs from the function, including output destinations, valid ranges of values, timing considerations, considerations for handling of illegal values, error messages, and interfaces required.

⇒

3.2.nu Use Case Y

When use cases are used as the means of specifying the functional requirements, provide a 3.2.nu subsection for each use case. Each 3.2.nu subsection should be labeled and titled appropriately for a specific use case, where nu is the appropriate sequential subsection number and Y is the name of the specific use case.

Within each use case subsection, specify the use case information, including the actor, pre-conditions, post-conditions, scenarios, and alternate scenarios.

3.3 Physical Requirements

3.3.1 Construction

Specify the environmental characteristics of where the system will be installed.

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3.3.2 Durability

Specify the durability characteristics of the system.

⇒

3.3.3 Adaptability

Specify the growth, expansion, capability, and contraction characteristics of the system.

⇒

3.3.4 Environmental Conditions

Specify the environmental conditions to be encountered by the system.

⇒

3.4 Logical Data Requirements

Describe the logical data requirements for the system.

⇒

3.5 User Requirements

Describe the user requirements for the system.

⇒

3.6 Information Management Requirements

Describe the information management requirements for the system.

⇒

3.7 Systems Requirements

3.7.1 Performance Requirements

Describe the performance conditions and their associated capabilities.

⇒

3.7.2 Quality Requirements

Describe requirements for the quality characteristics of the system.

⇒

3.8 Policy and Regulation Requirements

Describe policy and regulations for the system.

⇒

3.9 System Life Cycle Sustainment Requirements

Describe the life cycle sustainment activities to be executed during the life cycle of the system.

⇒

Section 4. System Interfaces

Specify in detail the requirements and dependencies for interfaces among system components and their external capabilities, including all users, both human and other systems. Include existing systems, systems under development, and future systems.

⇒

Section 5. Requirements Traceability Matrix

Provide reference to the location of or provide the actual Requirements Traceability Matrix that will be completed during the life of the project.

⇒

Section 6. References

Provide a list of all documents and other sources of information referenced in the SyRS and utilized in developing the SyRS. Include for each the document number, title, date, and author.

Document No.	Document Title	Date	Author

Section 7. Glossary

Define of all terms and acronyms required to interpret the SyRS properly.

⇒

Section 8. Revision History

Identify changes to the SyRS.

Version	Date	Name	Description

Section 9. Appendices

Include any relevant appendices.

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