

# **Software Requirements Specification**

## **Template**

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## Using This Template

The companion document, **Software Requirements Specification Instructions**, provides detailed direction for completing this template. This and other Framework documents, including a glossary, are available at [www.dir.state.tx.us/pubs/framework/](http://www.dir.state.tx.us/pubs/framework/).

To create a document 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 document header area at the top of page i (Contents page) with the same project and agency information as on the cover page.

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4. Complete the entire template. Each section contains abbreviated instructions and a content area. The content area is marked with a placeholder symbol ( $\Rightarrow$ ) or with a table. Relevant text from other project documents may be pasted into content areas.
5. Update the table of contents by right-clicking and selecting "Update Field," then "Update Page Numbers Only."

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TEXAS PROJECT DELIVERY FRAMEWORK

**SOFTWARE**

**REQUIREMENTS SPECIFICATION**



**[Agency/Organization Name]**

**[PROJECT NAME]**

VERSION: [Version Number]      REVISION DATE: [Date]

Approver Name	Title	Signature	Date

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## Section 1. Overview

### 1.1 Purpose

Specify the purpose of this Software Requirements Specification (SRS) and its intended audience.

⇒

### 1.2 Business Context

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

⇒

### 1.3 Scope

Describe the scope of the software application to be produced.

⇒

### 1.4 User Characteristics

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

⇒

## **Section 2. Assumptions, Dependencies, Constraints**

### **2.1 Assumptions**

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

⇒

### **2.2 Dependencies**

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

⇒

### **2.3 Constraints**

Describe the constraints that can affect the requirements specified in this SRS.

⇒

## Section 3. Requirements

### 3.1 Business Requirements

Describe all business requirements for the software.

⇒

### 3.2 Functional Requirements

Customize this subfunction to contain the subfunctions necessary to comprehensively define the fundamental actions that must take place within the software to accept and process the inputs and to process and generate the outputs.

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

#### 3.2.xf Function X

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

##### 3.2.xf.1 Function X Purpose

Describe the intent of the function.

⇒

##### 3.2.xf.2 Function X Inputs

Describe the inputs to the function.

⇒

##### 3.2.xf.3 Function X Operations

Describe the operations to be performed within the function.

⇒

##### 3.2.xf.4 Function X Outputs

Describe the outputs from the function.

⇒

### **3.2.xu Use Case Y**

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

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

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## **3.3 Logical Data Requirements**

Describe the logical data requirements for the software.

⇒

## **3.4 User Requirements**

Describe the user requirements for the software.

⇒

## **3.5 Information Management Requirements**

Describe the information management requirements for the software.

⇒

## **3.6 Systems Requirements**

### **3.6.1 Performance Requirements**

Describe the performance conditions and their associated capabilities.

⇒

### **3.6.2 Quality Requirements**

Describe requirements for the quality characteristics of the software.

⇒

## **3.7 Interfaces**

Describe the logical characteristics of each interface between the application and other hardware, software, and communication protocols.



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### **3.8 Other Requirements**

Identify any other requirements that do not fit appropriately into the preceding requirement sections.

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## Section 4. Requirements Traceability Matrix

Provide reference to the location of the Requirements Traceability Matrix that indicates traceability from the system requirements documented in the System Requirements Specification to the design elements documented in the System Design Description to the software requirements documented in this Software Requirements Specification (SRS).

⇒

## Section 5. References

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

Document No.	Document Title	Date	Author

## Section 6. Glossary

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

⇒

## Section 7. Revision History

Identify changes to the SRS.

Version	Date	Name	Description

## Section 8. Appendices

Include any relevant appendices.

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