Software Requirements Specification for f<Type the name of the project>

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| **Project ID** |  |
| **Project Name** |  |
| **Account** |  |
| **Business Unit / Global Account** |  |
| **Project Manager** |  |
| **Document Version Number** |  |
| **Approved by** |  |

This template is provided to create SRS for the projects in US Technology Resources. Text, appearing in italics is provided as guidelines to use this template.

This SRS template is designed to capture the complete software requirements for the project as well as the contractual and schedule requirements for the project.

The italicized notes are intended as a prompter. Delete them as soon as this page is composed.

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# Revision History

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Version Number** | **Release Date** | **Description of Change/s made** | **Author**  **(Name & Role)** | **Reviewer**  **(Name & Role)** | **Approver**  **(Name & Role)** |
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Table of Contents

[Revision History 2](#_Toc295478919)

[1.0. Introduction 5](#_Toc295478920)

[1.1 Scope of the Project 5](#_Toc295478921)

[1.2 Objective of this Document 5](#_Toc295478922)

[1.3 Acronyms, Abbreviations, and Definitions Used 5](#_Toc295478923)

[1.4 Related Documents 5](#_Toc295478924)

[1.5 Overview 5](#_Toc295478925)

[2.0 Overall Description of the Project 6](#_Toc295478926)

[3.0 Project Execution Requirements 6](#_Toc295478927)

[3.1 Deliverables and Delivery Dates 6](#_Toc295478928)

[3.2 Technical Environment to Be Used 6](#_Toc295478929)

[3.3 Testing Strategy 6](#_Toc295478930)

[3.4 Acceptance Criteria 6](#_Toc295478931)

[3.5 Perceived Risks and Contingencies 6](#_Toc295478932)

[4.0 Specific Requirements 7](#_Toc295478933)

[4.1 Functionality Requirements 7](#_Toc295478934)

[4.1.1. <Functionality Requirement 1> 7](#_Toc295478935)

[4.1.2. <Functionality Requirement 2> 7](#_Toc295478936)

[4.1.3. <Functionality Requirement n> 7](#_Toc295478937)

[4.2 End-User 7](#_Toc295478938)

[4.3 Reliability Requirements 7](#_Toc295478939)

[4.3.1 <Reliability Requirement 1> 7](#_Toc295478940)

[4.3.2 <Reliability Requirement 2> 7](#_Toc295478941)

[4.3.3 <Reliability Requirement n> 7](#_Toc295478942)

[4.4 Performance Requirements 7](#_Toc295478943)

[4.4.1. <Performance Requirement 1> 8](#_Toc295478944)

[4.4.2 <Performance Requirement 2> 8](#_Toc295478945)

[4.4. n. <Performance Requirement n> 8](#_Toc295478946)

[4.5. Supportability Requirements 8](#_Toc295478947)

[4.5.1. <Supportability Requirement 1> 8](#_Toc295478948)

[4.5.2. <Supportability Requirement 2> 8](#_Toc295478949)

[4.5.n. <Supportability Requirement n> 8](#_Toc295478950)

[4.6. Design Constraints 8](#_Toc295478951)

[4.7. User Documentation and Help System Requirements 9](#_Toc295478952)

[4.8. Purchased Components 9](#_Toc295478953)

[4.9. Interfaces 9](#_Toc295478954)

[4.9.1. User Interfaces 9](#_Toc295478955)

[4.9.2. Hardware Interfaces 9](#_Toc295478956)

[4.9.3 Software Interfaces 9](#_Toc295478957)

[4.9.4. Communications Interfaces 9](#_Toc295478958)

[4.10. Security Requirements 9](#_Toc295478959)

[4.11. Legal, Copyright and Other Notices 10](#_Toc295478960)

[4.12. Applicable Standards 10](#_Toc295478961)

[5.0 Supporting Information 10](#_Toc295478962)

[6.0 Agreement on the Verbs used in SRS 10](#_Toc295478963)

The italicized notes are intended as a prompter. Delete them as soon as this page is composed.

Use the style Body Text for your text.

Delete this text box also.

# 1.0. Introduction

*Give a brief introduction to the nature and special aspects of the project, the sponsors of the project, any special facts about the project, whether it is a follow-up of an earlier project, etc. Please keep off the technicalities at this point. Only one paragraph (about 5-7 sentences.)*

## 1.1 Scope of the Project

*Describe the purpose of the project, a peep into its functionalities, a brief mention of the technology and platform used, and indicate any constraints that are to be overcome.*

## 1.2 Objective of this Document

*The purpose of this document is to serve as a reference document for the exact specifications of the requirements of the project, mutually agreed upon by US Technology and its client, for the benefit of the designers, the developers and the client of the <Project Name>. The rigor and exactness with which each of the requirements is specified, is a crucial factor in minimizing the errors and inconsistencies during the testing phase of the developed product. Changes to the SRS document will be subject to mutual approval of the client and US Technology. Changes will be tightly controlled and closely monitored.*

*The SRS document contains the detailed description and exact specification of the functionalities of the product to be designed. It also specifies the non-functional requirements such as the technology used, delivery dates, acceptance criteria, etc.*

## 1.3 Acronyms, Abbreviations, and Definitions Used

*List all acronyms, abbreviations, and definitions of special business or technical terms, used in the document, in a two- column format.*

## 1.4 Related Documents

*This subsection should provide a complete list of all documents referred to, elsewhere in the SRS. Each document should be identified 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.*

## 1.5 Overview

*This subsection should describe what the rest of the SRS contains and explain how the SRS is organized.*

# 2.0 Overall Description of the Project

*This section of the SRS should describe the general factors that affect the system and its requirements. The section does not state specific requirements. Instead, it provides a background for those requirements, which are defined in detail in section 4, and makes them easier to understand.*

*Include such items as: application system perspective, application system functions, context of the project within the application system, and the user characteristics and constraints.*

# Project Execution Requirements

## 3.1 Deliverables and Delivery Dates

*This section of the SRS should contain all the deliverables and expected delivery dates.*

## 3.2 Technical Environment to Be Used

*This section of the SRS should contain a brief description about the technical environment to be used to develop and deploy the application; Use of tools and utilities could be highlighted here; Support expected from the client in setting up the environment could be specified in this section.*

## 3.3 Testing Strategy

*This section of the SRS should contain an overview of the testing strategy and the support expected from the client for setting up the test environment and test data.*

## 3.4 Acceptance Criteria

*This section of the SRS should list all the criteria that have to be met during the acceptance testing by the client. Please describe the procedure that has been agreed upon to fix the defects found during acceptance testing.*

*Example Maximum bugs or defect rate – usually expressed in terms of bugs/KLOC (thousands of lines of code), or bugs per function-point.*

*Bugs or defect rate – categorized in terms of minor, significant, and critical bugs: the requirement(s) must define what is meant by a “critical” bug (e.g., complete loss of data, complete inability to use certain parts of the functionality of the system).*

## 3.5 Perceived Risks and Contingencies

*Indicate any risks that are foreseen and unforeseen events that could affect the development of the project. Also indicate what strategies can be adopted to reduce adverse impacts of these risks.*

# 4.0 Specific Requirements

*This section of the SRS should contain all the 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.*

## 4.1 Functionality Requirements

*This section should list the functionality requirements, one by one. Describe each of the functionalities in the sub-sections below. Change the sub-section names, as appropriately. Before proceeding to the subsections, you should enter a sentence or two, by way of introductions to them. Before proceeding to the subsections, you should enter few sentences here, by way of introduction to the subsections to follow.*

### 4.1.1. <**Functionality Requirement 1>**

Add as many functionality requirements, as needed

Delete unwanted subsection nos.

Delete this text box also.

### 4.1.2. <Functionality Requirement 2>

### 4.1.3. <Functionality Requirement n>

## 4.2 End-User

*Specify the required training time for users to become productive at particular operations.*

## 4.3 Reliability Requirements

*Requirements for reliability of the system should be specified here. Suggestions:*

*Availability – specify % of time available (nn.nn%), hours of use, maintenance access, degraded mode operations, etc.*

*Under each one of the following subsections (change the title of the sub-sections), describe the description of the corresponding reliability factor. Before proceeding to the subsections, you should enter few sentences here, by way of introduction to the subsections to follow.*

### 4.3.1 <Reliability Requirement 1>

### 4.3.2 <Reliability Requirement 2>

### 4.3.3 <Reliability Requirement n>

## 4.4 Performance Requirements

*The performance characteristics of the system should be outlined in this section. Include specific response times. Where applicable, refer to related Use Cases by name.*

*Response time for a transaction (average, maximum)*

*Throughput (e.g., transactions per second)*

*Capacity (e.g., the number of customers or transactions the system can accommodate)*

*Degradation modes (what is the acceptable mode of operation when the system has been degraded in some manner)*

*Resource utilization: memory, disk, communications, etc.*

*Under each one of the following subsections (change the title of the sub-sections), describe the corresponding performance requirement. Before proceeding to the subsections, you should enter few sentences here, by way of introduction to the subsections to follow.*

### 4.4.1. <Performance Requirement 1>

### 4.4.2 <Performance Requirement 2>

### 4.4. n. <Performance Requirement n>

## 4.5. Supportability Requirements

This section indicates any requirements that will enhance the supportability or maintainability of the system being built, including coding standards, naming conventions, class libraries, maintenance access, maintenance utilities.

Under each one of the following subsections (change the title of the sub-sections), describe the corresponding supportability requirement.

### 4.5.1. <Supportability Requirement 1>

### 4.5.2. <Supportability Requirement 2>

### 4.5.n. <Supportability Requirement n>

## 

## 4.6. Design Constraints

*This section should indicate any design constraints on the system being built. Design constraints represent design decisions that have been mandated and must be adhered to. Examples include software languages, software process requirements, prescribed use of developmental tools, architectural and design constraints, purchased components, class libraries, etc.*

*Under each one of the following subsections (change the title of the sub-sections), describe the corresponding design constraint requirement.*

## 

## 4.7. User Documentation and Help System Requirements

*Describe the requirements for user documentation and online help.*

## 4.8. Purchased Components

This section describes any purchased components to be used with the system, any applicable licensing or usage restrictions, and any associated compatibility/interoperability or interface standards.

## 4.9. Interfaces

*This section defines the interfaces that must be supported by the application. It should contain adequate specificity so that the software can be developed and verified against the interface requirements.*

### 4.9.1. User Interfaces

Describe the user interfaces that are to be implemented by the software.

Specify requirements to conform to common user interface standards – e.g., IBM’s CUA standards, or the GUI standards published by Microsoft for Windows 95.

### 4.9.2. Hardware Interfaces

*This section defines any hardware interfaces that are to be supported by the software, including logical structure, physical addresses, expected behavior, etc.*

### 4.9.3 Software Interfaces

*This section describes software interfaces to other components of the software system. These may be purchased components, components reused from another application, or components being developed for subsystems outside of the scope of this SRS, but with which this software application must interact.*

### 4.9.4. Communications Interfaces

*Describe any communications interfaces to other systems or devices such as local area networks, remote serial devices, etc.*

## 4.10. Security Requirements

*Defines any licensing enforcement requirements or other requirements usage- restriction, which are to be exhibited by the software.*

## 4.11. Legal, Copyright and Other Notices

*This section describes any necessary legal disclaimers, warranties, copyright notices, patent notice, word mark, trademark, or logo compliance issues for the software.*

## 4.12. Applicable Standards

*This section describes by reference any applicable standards, (and the specific sections of any such standards which apply to the system being described). For example, this could include legal, quality and regulatory standards, industry standards for usability, interoperability, internationalization, operating system compliance, etc.*

# 5.0 Supporting Information

*The supporting information makes the SRS easier to use. It includes: a) Table of contents, b) Index, c) Appendices. When appendices are included, the SRS should explicitly state whether or not the appendices are to be considered part of the requirements.*

# 6.0 Agreement on the Verbs used in SRS

*Include an agreement with the client on the usage of words ‘shall’, ‘should’, ‘may’ and ‘shall attempt’ in the context of requirements.*

**Template Revision History (For EPEX Use Only)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Version Number** | **Release Date** | **Description of Change/s made** | **Author**  **(Name & Role)** | **Reviewer**  **(Name & Role)** | **Approver**  **(Name & Role)** | **QMS Release Version** |
| 1.0 | NA | Initial baseline | NA | NA | SEPG | NA |
| 2.0 | Jun-14-11 | Assigned artifact id, version #, release date to the template and modified Information Classification label in the footer | Shreevidhya Srinivasan, PM | Radhika Seenivasakan, SEPG | Rajesh Sreekumar, SEPG | 4.2 |
| 2.1 | Nov-30-18 | As a part of Re-Org, updated references to CQ and SEPG as EPEX | Prakash Palaniswamy | Pradeep Kumar Pullathil | Pradeep Kumar Pullathil | 7.5 |