

Name of Project

(Software Requirements Specifications)

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Version 1.0

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Table Of Contents

- Include section table of contents. Page numbering might not be a good idea. That is just my opinion though. Do you know why it might not be a good idea?

| Table # | Table Name |
|---------|------------|
| | |
| | |
| | |

| Figure # | Figure Name |
|----------|-------------|
| | |
| | |
| | |

| Screenshot # | Screenshot Name |
|--------------|-----------------|
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1. Introduction

1. What is this document?
2. Specify that the document stated everything that the system is supposed to do. If a functionality is not noted within this document than it will not be included within the product. No requirement should be assumed.

ex) The following is an SRD (Software Requirements Document) that will define the requirements and specifications of the Online Address Book Solution that is being developed for Paquet Software.

1.1. Purpose

- ?? Define the purpose of this particular SRS. Why are you writing this document? What are you trying to achieve by writing this document?
- ?? Specify the intended audience. A list of the different people who might read this document. Ex) client, software designer, etc.

1.2. Scope

- ?? Identify the software product(s) that will be produced.
- ?? Describe what the software products will do and if necessary what they will not do.
- ?? What are the benefits, objectives and goals of the software being described/specified.

Additional Comments:

- ?? Define the problem. The reason why company is looking to develop new or improve old software. Helps the readers better understand the needs of certain requirements.
- ?? Business Case for the System. i.e. explain why the system is required and how it will contribute to the overall business objective
- ?? Enumerate what exactly is going to be built for each build/release in a table.

| Release # | Functionality Overview |
|-----------|------------------------|
| | |

1.3. Definitions, Acronyms and Abbreviations

The following is a list of definitions, acronyms and abbreviations that will help you better understand the document.

1.3.1. Definitions

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1.3.2. Acronyms

| | |
|------|--------------------------------------|
| SRS | Software Requirements Specifications |
| HTML | Hypertext Markup Language |
| GUI | Graphical User Interface |
| DB | Database |
| | |

1.3.3. Abbreviations

| | |
|------|--------|
| s/he | he/she |
| | |
| | |
| | |

1.4. References

?? A list of references that might have been used to complete this document

1.5. Overview

?? What to read if you are who, tell reader what he should read depending on his goal

?? Content's & Organization of the SRS

Example:

Section 1 of this document should be read by everyone. This section gives the reader all the information needed to read the rest of the document as well as a general overview of the problem, the solution and describes how the solution will benefit the company.

Section 2 of this document should be read by everyone. This section gives a detailed textual description the system, describes how the system might tie into already existing systems, lists the functionality's that will exist in the system, depicts the types of users of the system, describes general constraints and indicates the assumptions and dependencies.

Section 3 of this document should be read by the System Designer's, implementers and maintainers in it's entirety. For those who would like more information on a specific functionality they can consult this section to get more information on it. This section contains a structured and detailed explanation of all functionality's, the external interfaces to the system, performance requirements, design constraints, quality attributes and other requirements.

| Reader Type | Recommended Reading |
|-----------------------------|------------------------------------------------|
| User | Section 1 (all), 2 (all) |
| Manager | Section 1 (all), 2 (all) |
| Requirement Engineer | Section 1 (all), 2 (all), 3(all), 4(all) |
| System Designer | Section 1 (all), 2 (all), 3(all), 4(all) |
| Implementor | Section 1 (all), 2 (all), 3(selective), 4(all) |
| System Tester | Section 1 (all), 2 (all), 3(all), 4(all) |
| System Maintainer | Section 1 (all), 2 (all), 3(selective), 4(all) |

2. Overall Description

2.1. Product Perspective

- ?? Put the system into perspective with other products or projects
- ?? If the product is independent and totally self contained than it should be stated.
- ?? If part of larger system, relate the requirements of the large system (whole system) to the functionality of the software this document introduces. Ex) What does the software you are describing do for the system as a whole? What is it responsible for?
- ?? Identify interfaces between the whole system and the software being described in this document.
- ?? Can contain diagram of how the software being described fits into the whole system. What it communicates with, etc..
- ?? Describe how the software operates inside various constraints. Pg 13 from standard.

Additional comments:

- ?? Describe dependant systems and their interfaces with the current system.
- ?? Describe external interfaces that the system to be built will provide
- ?? Describe Hardware to be used

2.2. Product Functions

- ?? List of functions, description of each function and it's priority in a table. Possibly divided by module.

Example:

Below is a list of all functions that can be found in the system with a description of the function and its priority. The priorities range from 1 to 3, with 1 being the highest priority and 3 being the lowest. If a requirement has been removed the word "removed" will be written as opposed to a numeric priority.

| Priority | Detail |
|----------|---------------------------|
| 1 | Must have |
| 2 | Should have |
| 3 | Nice to have |
| removed | Removed from requirements |

| ID | Function | Description | Priority |
|----|---------------|-----------------------------------------------------------------------------------|----------|
| 1 | Function Name | This description should be identical to description of the function in section 3. | 1 |

2.3. User Characteristics

- ?? Description of each actor of the system, the actors education level, frequency of system use, how they use it, experience and technical competency. It gives reasons why certain requirements are specified.

The following is a list of the actors in the system and their description.

| Actor | Description |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General User | Ex) The general users education and technical abilities will vary greatly. The general user will log into the system on a daily basis to look for specific contacts and get their information. Occasionally the general user will also modify an existing contact or add a new contact. |

2.4. Constraints

- ?? Examples of possible constraints: interfaces, parallelism, language, platform, criticality, safety, security, legal constraints.
?? Includes any constraint that limits developer's options.

2.5. Assumptions and Dependencies

- ?? A list of all factors that will influence the SRS as stated. For instance what OS being used for development.

2.6. Apportioning of Requirements

- ~~??~~ List of requirements that MIGHT be delayed until future versions.

3. Specific Requirements

| Priority | Detail |
|----------|---------------------------|
| 1 | Must have |
| 2 | Should have |
| 3 | Nice to have |
| removed | Removed from requirements |

3.1. Functional Requirement

?? If a section is not required it's title is within square braces [title]. All other sections are required.

| ID | 1.1.1.2 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Name | Function Name |
| Description | Description of functional requirement. This description is a copy of what is found in section 2.2 |
| Priority | 1-3 or removed |
| Status | Possibilities: High Level Description, Detailed Description, Scenarios Complete, Coded, Tested, Incomplete Parts, etc. |
| Actors | List of actors who communicate/use this requirement |
| Pre-Conditions | ?? Things that must be true before the use case begins |
| Inputs | |
| Flow of Events | |
| Basic Path | 1. series of actions that must be undertaken to provide the service when nothing goes wrong |
| Alternative Paths | Alternative flow of events 1: In Step 2, ... Series of actions that applies when something goes wrong in the basic path |
| Post-Conditions | ?? Things that are true after the use case ends |
| [Outputs] | |
| [Constraint(s)] | List of constraints for this requirement ex) ?? Must be able to complete in less than 50 ms |
| Related Use Cases | |
| Used Use Cases | List of use cases that are linked with a <<uses>> relationship |
| Extending Use Cases | List of use cases that are linked with an <<extends>> relationship |

| | |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Screenshot | |
| Source(s) | <p>?? Name, position and company of people who suggested this requirement.</p> <p>Ex) John Jonathan – President – XYZ Consulting, Denis Doyle – CEO, XYZ Consulting</p> |

3.1.1. Sub System Functional Requirement

3.2. External Interface Requirements

This section describes the user, hardware, software, and communications interfaces for the Online Address Book System.

?? All interfaces have to include rational behind decisions.

3.2.1. User Interfaces

?? Sample GUI or textual description of different interfaces.

3.2.2. Hardware Interfaces

3.2.3. Software Interfaces

3.2.4. Communication Interfaces

3.3. Performance Requirements

3.4. Design Constraints

Should include standards compliance

3. Logical Database Requirements

3.6. Software System Attributes

3. Reliability

3.6.2. Availability

?? Will system ever be done and if so why?

3.6.3. Security

?? What security has been imposed on the system

3.6.4. Maintainability

- ?? How can one maintain the system
- ?? What is being done to maintain system

3.6.5. Transferability/Portability

- ?? Will the system being built be able to run on other systems

3.6.6. Learnability

- ?? How long will it take for user to be familiar with system

3.7. Other Requirements

4. Appendices

4.1. Index