**Software Requirements Specification**

**VeniApps System**

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**Location of electronic version of file**

**Team Group X**

[**https://github.com/rmurray1/veniapp.git**](https://github.com/rmurray1/veniapp.git)

***The Veni VA Checkin System***

Advanced Software Engineering Project

SE 6387.M01



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# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
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|  |  |  |  |
|  |  |  |  |

**Table of Contents**

Revision History 2

1. Introduction 5

1.1 Purpose 5

1.2 Scope 5

1.3 Definitions, Acronyms, and Abbreviations. 5

1.4 Overview 5

2. The Overall Description 5

2.1 Product Perspective 6

2.1.1 System Interfaces 6

2.1.2 Interfaces 6

2.1.3 Hardware Interfaces 7

2.1.4 Software Interfaces 7

2.1.5 Communications Interfaces 8

2.1.6 Memory Constraints 8

2.1.7 Operations 8

2.1.8 Site Adaptation Requirements 8

2.2 Product Functions 9

2.3 User Characteristics 9

2.4 Constraints 9

2.5 Assumptions and Dependencies 10

2.6 Apportioning of Requirements. 10

3. Specific Requirements 10

3.1 External Interfaces 12

3.2 Functions 12

3.3 Performance Requirements 13

3.4 Logical Database Requirements 13

3.5 Design Constraints 14

3.5.1 Standards Compliance 14

3.6 Software System Attributes 14

3.6.1 Reliability 14

3.6.2 Availability 14

3.6.3 Security 15

3.6.4 Maintainability 15

3.6.5 Portability 15

3.7 Organizing the Specific Requirements 16

3.7.1 System Mode 16

3.7.2 User Class 17

3.7.3 Objects 17

3.7.4 Feature 17

3.7.5 Stimulus 17

3. 7.6 Response 17

3.7.7 Functional Hierarchy 17

3.8 Additional Comments 17

4. Change Management Process 18

5. Document Approvals 18

6. Supporting Information 18

Appendix A 19

# 1. Introduction

## 1.1 Purpose

*The purpose of this Software Requirements Specification (SRS) document is to provide a detailed description of the functionalities of the Veni Check-in system. This document will cover each of the system’s intended features, as well as offer a preliminary examples of the software application’s User Interface (UI). Additionally, this document will also cover hardware, software, and various other technical dependencies.*

## 1.2 Scope

*The Veni System is composed of the following:*

1. *A client-side application which will run on Android or IOS smartphone*
2. *A server-side application which implements the Veni System business logic and broker communication between the mobile client and Veteran Affairs (VA) Veterans Health Information Systems and Technology (VistA) Electronic Health Record System (EHR)*
3. *The Veni System will allow a Veteran to manage his/her VA appointments via a mobile application and check-in electronically*
4. *The Veni System will leverage open source technologies to reduce the cost of ownership to the VA and lower the complexity to implementation*

## 1.3 Definitions, Acronyms, and Abbreviations.

*Terminology associated with this document are defined in Appendix A. A glossary contains a list of terms and respective definition.*

## 1.4 Overview

*This document is intended for all users that participate in the VA Patient check-in process or supervise those individuals. For a more descriptive look for a developer, please review section 3.*

# 2. The Overall Description

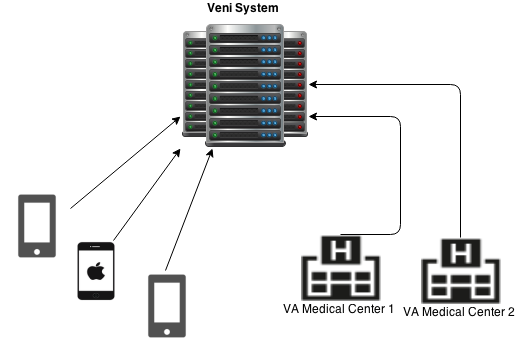
*The Veni System consist of a smartphone client and server-side componets. Both parts are equal important in the development of the overall system. The server-sdide component is responsible for access the respective VistA System and provide access to data to the smartphone. Because of the significant importance of both systems*

*both aspects are detailed in this document.*

## 2.1 Product Perspective

*The product shall support the following:*

* *Sending and receiving VA appointment information to a central source*
* *Geo location services for identifying VAMC locations*

**

*Figure 1.*

### 2.1.1 System Interfaces

*List each system interface and identify the functionality of the software to accomplish the system requirement and the interface description to match the system. These are external systems that you have to interact with. For instance, if you are building a business application that interfaces with the existing employee payroll system, what is the API to that system that designer’s will need to use?*

### 2.1.2 Interfaces

*Specify:*

1. *The logical characteristics of each interface between the software product and its users.*
2. *All the aspects of optimizing the interface with the person who must use the system*

*This is a description of how the system will interact with its users. Is there a GUI, a command line or some other type of interface? Are there special interface requirements? If you are designing for the general student population for instance, what is the impact of ADA (American with Disabilities Act) on your interface?*

### 2.1.3 Hardware Interfaces

*The program must run on Android version kitcat or higher and IOS.*

### 2.1.4 Software Interfaces

*Specify the use of other required software products and interfaces with other application systems. For each required software product, include:*

1. *VistA RPCBroker*
2. *Version 1.1*
3. *Source:* [*http://www.va.gov/vdl/documents/Infrastructure/Remote\_Proc\_Call\_Broker\_(RPC)/xwb\_1\_1\_dg.pdf*](http://www.va.gov/vdl/documents/Infrastructure/Remote_Proc_Call_Broker_(RPC)/xwb_1_1_dg.pdf)

## 2.3 User Characteristics

*The Veteran will be the principle user of the Veni System smartphone application.*

*VA clinical staff in charge of the VA check-in process will be familiar with the smartphone application.*

*VA Office of Information and Technology (OI&T) will be the principle administrator of the Veni System server application.*

## 2.4 User Documentation

*The final deliverable will include a software document folder(SDF). The SDF will contain tutorials and user manuals for the Veni System smartphone client and Veni System server application. The deliverable shall be sent to the customer in the form of a zip file. An electronic download will be available to the customer.*

# 3. Specific Requirements

*This section contains all the software requirements at 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. Throughout this section, every stated requirement should be externally perceivable by users, operators, or other external systems. These requirements should include at a minimum a description of every input (stimulus) into the system, every output (response) from the system and all functions performed by the system in response to an input or in support of an output. The following principles apply:*

1. *Specific requirements should be stated with all the characteristics of a good SRS*
2. *correct*
3. *unambiguous*
4. *complete*
5. *consistent*
6. *ranked for importance and/or stability*
7. *verifiable*
8. *modifiable*
9. *traceable*
10. *Specific requirements should be cross-referenced to earlier documents that relate*
11. *All requirements should be uniquely identifiable (usually via numbering like 3.1.2.3)*
12. *Careful attention should be given to organizing the requirements to maximize readability (Several alternative organizations are given at end of document)*

*Before examining specific ways of organizing the requirements it is helpful to understand the various items that comprise requirements as described in the following subclasses. This section reiterates section 2, but is for developers not the customer. The customer buys in with section 2, the designers use section 3 to design and build the actual application.*

*Remember this is not design. Do not require specific software packages, etc unless the customer specifically requires them. Avoid over-constraining your design. Use proper terminology:*

*The system shall… A required, must have feature*

*The system should… A desired feature, but may be deferred til later*

*The system may… An optional, nice-to-have feature that may never make it to implementation.*

*Each requirement should be uniquely identified for traceability. Usually, they are numbered 3.1, 3.1.1, 3.1.2.1 etc. Each requirement should also be testable. Avoid imprecise statements like, “The system shall be easy to use” Well no kidding, what does that mean? Avoid “motherhood and apple pie” type statements, “The system shall be developed using good software engineering practice”*

*Avoid examples, This is a specification, a designer should be able to read this spec and build the system without bothering the customer again. Don’t say things like, “The system shall accept configuration information such as name and address.” The designer doesn’t know if that is the only two data elements or if there are 200. List every piece of information that is required so the designers can build the right UI and data tables.*

## 3.1 Veni System Smartphone Client (VSSC)

*VSSC-01: The software shall provide capability for searching items using item number.*

*VSSC-02: The software shall receive item reports only upon requests.*

*VSSC-03: The software shall display item information including manifest information, previous locations, and analytic scores.*

*VSSC-04: The software shall be capable of updating item reports using the current location.*

*VSSC-05: The software shall provide capability of updating item reports by attaching a picture of the item.*

*VSSC-06: The software shall be capable of updating item reports to classify them as normal or high priority.*

*VSSC-07: The software shall provide capability for geo-visualization of item location and past locations.*

*It contains both content and format as follows:*

1. *Name of item*
2. *Description of purpose*
3. *Source of input or destination of output*

## 3.2 Veni System Server Application (VSSA)

*VSSA-01: The software shall be capable of storing all necessary data in a secure format in compliance with Health Insurance Portability and Accountability Act*

*(HIPAA) and Personal Health Informaton (PHI) regulations.*

*VSSA-02: The software shall provide capability for geo-visualization of item location and past locations.*

*VSSA-03: The software shall provide capability for geo-visualization of item location and past locations.*

*VSSA-04: The software shall provide capability for geo-visualization of item location and past locations.*

*VSSA-05: The software shall provide capability for geo-visualization of item location and past locations.*

*These include:*

1. *Validity checks on the inputs*
2. *Exact sequence of operations*
3. *Responses to abnormal situation, including*
4. *Overflow*
5. *Communication facilities*
6. *Error handling and recovery*
7. *Effect of parameters*
8. *Relationship of outputs to inputs, including*
9. *Input/Output sequences*
10. *Formulas for input to output conversion*

*It may be appropriate to partition the functional requirements into sub-functions or sub-processes. This does not imply that the software design will also be partitioned that way.*

## 3.3 Performance Requirements

*This subsection specifies both the static and the dynamic numerical requirements placed on the software or on human interaction with the software, as a whole. Static numerical requirements may include:*

*(a) The number of terminals to be supported*

*(b) The number of simultaneous users to be supported*

*(c) Amount and type of information to be handled*

*Static numerical requirements are sometimes identified under a separate section entitled capacity.*

*Dynamic numerical requirements may include, for example, the numbers of transactions and tasks and the amount of data to be processed within certain time periods for both normal and peak workload conditions.*

*All of these requirements should be stated in measurable terms.*

*For example,*

*95% of the transactions shall be processed in less than 1 second*

*rather than,*

*An operator shall not have to wait for the transaction to complete.*

*(Note: Numerical limits applied to one specific function are normally specified as part of the processing subparagraph description of that function.)*

## 3.4 Logical Database Requirements

*This section specifies the logical requirements for any information that is to be placed into a database. This may include:*

1. *Types of information used by various functions*
2. *Frequency of use*
3. *Accessing capabilities*
4. *Data entities and their relationships*
5. *Integrity constraints*
6. *Data retention requirements*

*If the customer provided you with data models, those can be presented here. ER diagrams (or static class diagrams) can be useful here to show complex data relationships. Remember a diagram is worth a thousand words of confusing text.*

## 3.5 Design Constraints

*Specify design constraints that can be imposed by other standards, hardware limitations, etc.*

### 3.5.1 Standards Compliance

*Specify the requirements derived from existing standards or regulations. They might include:*

*(1) Report format*

*(2) Data naming*

*(3) Accounting procedures*

*(4) Audit Tracing*

*For example, this could specify the requirement for software to trace processing activity. Such traces are needed for some applications to meet minimum regulatory or financial standards. An audit trace requirement may, for example, state that all changes to a payroll database must be recorded in a trace file with before and after values.*

## 3.6 Software System Attributes

*There are a number of attributes of software that can serve as requirements. It is important that required attributes by specified so that their achievement can be objectively verified. The following items provide a partial list of examples. These are also known as non-functional requirements or quality attributes.*

*These are characteristics the system must possess, but that pervade (or cross-cut) the design. These requirements have to be testable just like the functional requirements. Its easy to start philosophizing here, but keep it specific.*

### 3.6.1 Reliability

*Specify the factors required to establish the required reliability of the software system at time of delivery. If you have MTBF requirements, express them here. This doesn’t refer to just having a program that does not crash. This has a specific engineering meaning.*

### 3.6.2 Availability

*Specify the factors required to guarantee a defined availability level for the entire system such as checkpoint, recovery, and restart. This is somewhat related to reliability. Some systems run only infrequently on-demand (like MS Word). Some systems have to run 24/7 (like an e-commerce web site). The required availability will greatly impact the design. What are the requirements for system recovery from a failure? “The system shall allow users to restart the application after failure with the loss of at most 12 characters of input”.*

### 3.6.3 Security

*Specify the factors that would protect the software from accidental or malicious access, use, modification, destruction, or disclosure. Specific requirements in this area could include the need to:*

1. *Utilize certain cryptographic techniques*
2. *Keep specific log or history data sets*
3. *Assign certain functions to different modules*
4. *Restrict communications between some areas of the program*
5. *Check data integrity for critical variables*

### 3.6.4 Maintainability

*Specify attributes of software that relate to the ease of maintenance of the software itself. There may be some requirement for certain modularity, interfaces, complexity, etc. Requirements should not be placed here just because they are thought to be good design practices. If someone else will maintain the system*

### 3.6.5 Portability

*Specify attributes of software that relate to the ease of porting the software to other host machines and/or operating systems. This may include:*

1. *Percentage of components with host-dependent code*
2. *Percentage of code that is host dependent*
3. *Use of a proven portable language*
4. *Use of a particular compiler or language subset*
5. *Use of a particular operating system*

*Once the relevant characteristics are selected, a subsection should be written for each, explaining the rationale for including this characteristic and how it will be tested and measured. A chart like this might be used to identify the key characteristics (rating them High or Medium), then identifying which are preferred when trading off design or implementation decisions (with the ID of the preferred one indicated in the chart to the right). The chart below is optional (it can be confusing) and is for demonstrating tradeoff analysis between different non-functional requirements. H/M/L is the relative priority of that non-functional requirement.*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Characteristic** | **H/M/L** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** |
| 1 | Correctness |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Efficiency |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | Flexibility |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Integrity/Security |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Interoperability |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | Maintainability |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | Portability |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | Reliability |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | Reusability |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Testability |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | Usability |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | Availability |  |  |  |  |  |  |  |  |  |  |  |  |  |

*Definitions of the quality characteristics not defined in the paragraphs above follow.*

*• Correctness - extent to which program satisfies specifications, fulfills user’s mission objectives*

*• Efficiency - amount of computing resources and code required to perform function*

*• Flexibility - effort needed to modify operational program*

*• Interoperability - effort needed to couple one system with another*

*• Reliability - extent to which program performs with required precision*

*• Reusability - extent to which it can be reused in another application*

*• Testability - effort needed to test to ensure performs as intended*

*• Usability - effort required to learn, operate, prepare input, and interpret output*

*THE FOLLOWING (3.7) is not really a section, it is talking about how to organize requirements you write in section 3.2. At the end of this template there are a bunch of alternative organizations for section 3.2. Choose the ONE best for the system you are writing the requirements for.*

## 3.7 Organizing the Specific Requirements

*For anything but trivial systems the detailed requirements tend to be extensive. For this reason, it is recommended that careful consideration be given to organizing these in a manner optimal for understanding. There is no one optimal organization for all systems. Different classes of systems lend themselves to different organizations of requirements in section 3. Some of these organizations are described in the following subclasses.*

### 3.7.1 System Mode

*Some systems behave quite differently depending on the mode of operation. When organizing by mode there are two possible outlines. The choice depends on whether interfaces and performance are dependent on mode.*

### 3.7.2 User Class

*Some systems provide different sets of functions to different classes of users.*

### 3.7.3 Objects

*Objects are real-world entities that have a counterpart within the system. Associated with each object is a set of attributes and functions. These functions are also called services, methods, or processes. Note that sets of objects may share attributes and services. These are grouped together as classes.*

### 3.7.4 Feature

*A feature is an externally desired service by the system that may require a sequence of inputs to effect the desired result. Each feature is generally described in as sequence eof stimulus-response pairs.*

### 3.7.5 Stimulus

*Some systems can be best organized by describing their functions in terms of stimuli.*

### 3. 7.6 Response

*Some systems can be best organized by describing their functions in support of the generation of a response.*

### 3.7.7 Functional Hierarchy

*When none of he above organizational schemes prove helpful, the overall functionality can be organized into a hierarchy of functions organized by either common inputs, common outputs, or common internal data access. Data flow diagrams and data dictionaries can be use dot show the relationships between and among the functions and data.*

## 3.8 Additional Comments

*Whenever a new SRS is contemplated, more than one of the organizational techniques given in 3.7 may be appropriate. In such cases, organize the specific requirements for multiple hierarchies tailored to the specific needs of the system under specification.*

*Three are many notations, methods, and automated support tools available to aid in the documentation of requirements. For the most part, their usefulness is a function of organization. For example, when organizing by mode, finite state machines or state charts may prove helpful; when organizing by object, object-oriented analysis may prove helpful; when organizing by feature, stimulus-response sequences may prove helpful; when organizing by functional hierarchy, data flow diagrams and data dictionaries may prove helpful.*

*In any of the outlines below, those sections called “Functional Requirement i” may be described in native language, in pseudocode, in a system definition language, or in four subsections titled: Introduction, Inputs, Processing, Outputs.*

# Change Management Process

*Identify the change management process to be used to identify, log, evaluate, and update the SRS to reflect changes in project scope and requirements. How are you going to control changes to the requirements. Can the customer just call up and ask for something new? Does your team have to reach consensus? How do changes to requirements get submitted to the team? Formally in writing, email or phone call?*

# Document Approvals

*Identify the approvers of the SRS document. Approver name, signature, and date should be used.*

# Supporting Information

*The supporting information makes the SRS easier to use. It includes:*

1. *Table of Contents*
2. *Index*
3. *Appendices*

# Appendix A

*User Interface (UI)*

*Veteran Affairs (VA)*

*Veterans Health Information Systems and Technology (VistA) Electronic Health Record System (EHR)*

**Outline for SRS Section 3**

**Organized by mode: Version 1**

3. Specific Requirements

3.1 External interface requirements

1. User interfaces
2. Hardware interfaces
3. Software interfaces
4. Communications interfaces
5. Functional requirements

3.2.1 Mode 1

3.2.1.1 Functional requirement 1.1

.....

3.2.1.*n* Functional requirement 1.*n*

1. Mode 2

.....

3.2.*m* Mode *m*

3.2.*m*.1 Functional requirement *m*.1

.....

3.2.*m.n* Functional requirement *m.n*

3.3 Performance Requirements

3.4 Design Constraints

3.5 Software system attributes

3.6 Other requirements

**Outline for SRS Section 3**

**Organized by mode: Version 2**

3. Specific Requirements

3.1 Functional Requirements

1. Mode 1

3.1.1.1 External interfaces

3.1.1.1 User interfaces

3.1.1.2 Hardware interfaces

3.1.1.3 Software interfaces

3.1.1.4 Communications interfaces

3.1.1.2 Functional Requirement

3.1.1.2.1 Functional requirement 1

.....

3.1.1.2.*n* Functional requirement *n*

3.1.1.3 Performance

3.1.2 Mode 2

.....

3.1.*m* Mode *m*

1. Design constraints
2. Software system attributes
3. Other requirements

**Outline for SRS Section 3**

**Organized by user class (i.e. different types of users ->System Adminstrators, Managers, Clerks, etc.)**

3. Specific Requirements

3.1 External interface requirements

1. User interfaces
2. Hardware interfaces
3. Software interfaces
4. Communications interfaces
5. Functional requirements

3.2.1 User class 1

3.2.1.1 Functional requirement 1.1

.....

3.2.1.*n* Functional requirement 1.*n*

1. User class 2

.....

3.2.*m* User class *m*

3.2.*m*.1 Functional requirement *m*.1

.....

3.2.*m.n* Functional requirement *m.n*

3.3 Performance Requirements

3.4 Design Constraints

3.5 Software system attributes

3.6 Other requirements

**Outline for SRS Section 3**

**Organized by object (Good if you did an object-oriented analysis as part of your requirements)**

3 Specific Requirements

3.1 External interface requirements

1. User interfaces
2. Hardware interfaces
3. Software interfaces
4. Communications interfaces
5. Classes/Objects

3.2.1 Class/Object 1

3.2.1.1 Attributes (direct or inherited)

1. Attribute 1

.....

3.2.1.1.*n* Attribute *n*

1. Functions (services, methods, direct or inherited)

3.2.1.2.1 Functional requirement 1.1

.....

3.2.1.2.*m* Functional requirement 1.*m*

3.2.1.3 Messages (communications received or sent)

3.2.2 Class/Object 2

.....

3.2.*p* Class/Object *p*

3.3 Performance Requirements

3.4 Design Constraints

3.5 Software system attributes

3.6 Other requirements

**Outline for SRS Section 3**

**Organized by feature (Good when there are clearly delimited feature sets.**

3 Specific Requirements

3.1 External interface requirements

1. User interfaces
2. Hardware interfaces
3. Software interfaces
4. Communications interfaces
5. System features

3.2.1 System Feature 1

3.2.1.1 Introduction/Purpose of feature

3.2.1.2 Stimulus/Response sequence

3.2.1.3 Associated functional requirements

3.2.1.3.1 Functional requirement 1

.....

3.2.1.3.*n* Functional requirement *n*

3.2.2 System Feature 2

.....

3.2.*m* System Feature *m*

.....

3.3 Performance Requirements

3.4 Design Constraints

3.5 Software system attributes

3.6 Other requirements

**Outline for SRS Section 3**

**Organized by stimulus (Good for event driven systems where the events form logical groupings)**

3 Specific Requirements

3.1 External interface requirements

1. User interfaces
2. Hardware interfaces
3. Software interfaces
4. Communications interfaces
5. Functional requirements

3.2.1 Stimulus 1

3.2.1.1 Functional requirement 1.1

.....

3.2.1.*n* Functional requirement 1.*n*

3.2.2 Stimulus 2

.....

3.2.*m* Stimulus *m*

3.2.*m*.1 Functional requirement *m*.1

.....

3.2.*m.n* Functional requirement *m.n*

3.3 Performance Requirements

3.4 Design Constraints

3.5 Software system attributes

3.6 Other requirements

**Outline for SRS Section 3**

**Organized by response (Good for event driven systems where the responses form logical groupings)**

3 Specific Requirements

3.1 External interface requirements

1. User interfaces
2. Hardware interfaces
3. Software interfaces
4. Communications interfaces
5. Functional requirements

3.2.1 Response 1

3.2.1.1 Functional requirement 1.1

.....

3.2.1.*n* Functional requirement 1.*n*

3.2.2 Response 2

.....

3.2.*m* Response *m*

3.2.*m*.1 Functional requirement *m*.1

.....

3.2.*m.n* Functional requirement *m.n*

3.3 Performance Requirements

3.4 Design Constraints

3.5 Software system attributes

3.6 Other requirements

**Outline for SRS Section 3**

**Organized by functional hierarchy (Good if you have done structured analysis as part of your design.)**

3 Specific Requirements

3.1 External interface requirements

1. User interfaces
2. Hardware interfaces
3. Software interfaces
4. Communications interfaces
5. Functional requirements

3.2.1 Information flows

3.2.1.1 Data flow diagram 1

1. Data entities
2. Pertinent processes
3. Topology

3.2.1.2 Data flow diagram 2

1. Data entities
2. Pertinent processes
3. Topology

.....

3.2.1.*n* Data flow diagram *n*

3.2.1.*n*.1 Data entities

3.2.1.*n*.2 Pertinent processes

3.2.1.*n*.3 Topology

3.2.2 Process descriptions

1. Process 1
2. Input data entities
3. Algorithm or formula of process
4. Affected data entities

3.2.2.2 Process 2

3.2.2.2.1 Input data entities

3.2.2.2.2 Algorithm or formula of process

3.2.2.2.3 Affected data entities

.….

3.2.2.*m* Process *m*

3.2.2.*m*.1 Input data entities

3.2.2.*m*.2 Algorithm or formula of process

3.2.2.*m*.3 Affected data entities

3.2.3 Data construct specifications

3.2.3.1 Construct 1

3.2.3.1.1 Record type

3.2.3.1.2 Constituent fields

3.2.3.2 Construct 2

3.2.3.2.1 Record type

3.2.3.2.2 Constituent fields

…..

3.2.3.*p* Construct *p*

3.2.3.*p*.1 Record type

3.2.3.*p*.2 Constituent fields

3.2.4 Data dictionary

3.2.4.1 Data element 1

3.2.4.1.1 Name

3.2.4.1.2 Representation

3.2.4.1.3 Units/Format

3.2.4.1.4 Precision/Accuracy

3.2.4.1.5 Range

3.2.4.2 Data element 2

3.2.4.2.1 Name

3.2.4.2.2 Representation

3.2.4.2.3 Units/Format

3.2.4.2.4 Precision/Accuracy

3.2.4.2.5 Range

…..

3.2.4.*q* Data element *q*

3.2.4.*q*.1 Name

3.2.4.*q*.2 Representation

3.2.4.*q*.3 Units/Format

3.2.4.*q*.4 Precision/Accuracy

3.2.4.*q*.5 Range

3.3 Performance Requirements

3.4 Design Constraints

3.5 Software system attributes

3.6 Other requirements

**Outline for SRS Section 3**

**Showing multiple organizations (Can’t decide? Then glob it all together)**

3 Specific Requirements

3.1 External interface requirements

1. User interfaces
2. Hardware interfaces
3. Software interfaces
4. Communications interfaces
5. Functional requirements

3.2.1 User class 1

3.2.1.1 Feature 1.1

3.2.1.1.1 Introduction/Purpose of feature

3.2.1.1.2 Stimulus/Response sequence

3.2.1.1.3 Associated functional requirements

3.2.1.2 Feature 1.2

3.2.1.2.1 Introduction/Purpose of feature

3.2.1.2.2 Stimulus/Response sequence

3.2.1.2.3 Associated functional requirements

…..

3.2.1.*m* Feature 1.*m*

3.2.1.*m*.1 Introduction/Purpose of feature

3.2.1.*m*.2 Stimulus/Response sequence

3.2.1.*m*.3 Associated functional requirements

3.2.2 User class 2

.....

3.2.*n* User class *n*

.....

3.3 Performance Requirements

3.4 Design Constraints

3.5 Software system attributes

3.6 Other requirements

**Outline for SRS Section 3**

**Organized by Use Case (Good when following UML development)**

3. Specific Requirements

3.1 External Actor Descriptions

3.1.1 Human Actors

3.1.2 Hardware Actors

3.1.3 Software System Actors

3.2 Use Case Descriptions

3.2.1 Use Case 1

3.2.2 Use Case 2

3.2.n Use Case n

3.3 Performance Requirements

3.4 Design Constraints

3.5 Software system attributes

3.6 Other requirements