

# Project Title: System Verification and Validation Plan

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# 1 Revision History

Date	Version	Notes
Date 1	1.0	Notes
Date 2	1.1	Notes

## 2 Symbols, Abbreviations and Acronyms

symbol	description
T	Test

[symbols, abbreviations or acronyms – you can simply reference the SRS tables, if appropriate —SS]

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This document ... [provide an introductory blurb and roadmap of the Verification and Validation plan —SS]

## **3 General Information**

### **3.1 Summary**

[Say what software is being tested. Give its name and a brief overview of its general functions. —SS]

### **3.2 Objectives**

[State what is intended to be accomplished. The objective will be around the qualities that are most important for your project. You might have something like: “build confidence in the software correctness,” “demonstrate adequate usability.” etc. You won’t list all of the qualities, just those that are most important. —SS]

### **3.3 Relevant Documentation**

[Reference relevant documentation. This will definitely include your SRS —SS]

## **4 Plan**

### **4.1 Verification and Validation Team**

[Probably just you. :-) —SS]

### **4.2 SRS Verification Plan**

[List any approaches you intend to use for SRS verification. This may just be ad hoc feedback from reviewers, like your classmates, or you may have something more rigorous/systematic in mind.. —SS]

### 4.3 Design Verification Plan

[Plans for design verification —SS]

### 4.4 Implementation Verification Plan

[You should at least point to the tests listed in this document and the unit testing plan. —SS]

### 4.5 Software Validation Plan

[If there is any external data that can be used for validation, you should point to it here. If there are no plans for validation, you should state that here. —SS]

## 5 System Test Description

### 5.1 Tests for Functional Requirements

[Subsets of the tests may be in related, so this section is divided into different areas. If there are no identifiable subsets for the tests, this level of document structure can be removed. —SS]

#### 5.1.1 Area of Testing1

##### Title for Test

1. test-id1

Control: Manual versus Automatic

Initial State:

Input:

Output:

How test will be performed:

2. test-id2

Control: Manual versus Automatic

Initial State:

Input:

Output:

How test will be performed:

### **5.1.2 Area of Testing2**

...

## **5.2 Tests for Nonfunctional Requirements**

### **5.2.1 Area of Testing1**

**Title for Test**

1. test-id1

Type:

Initial State:

Input/Condition:

Output/Result:

How test will be performed:

2. test-id2

Type: Functional, Dynamic, Manual, Static etc.

Initial State:

Input:

Output:

How test will be performed:

### **5.2.2 Area of Testing2**

...

### **5.3 Traceability Between Test Cases and Requirements**

[Provide a table that shows which test cases are supporting which requirements. —SS]

## **6 Static Verification Techniques**

[In this section give the details of any plans for static verification of the implementation. Potential techniques include code walkthroughs, code inspection, static analyzers, etc. —SS]



## 7 Appendix

This is where you can place additional information.

### 7.1 Symbolic Parameters

The definition of the test cases will call for SYMBOLIC\_CONSTANTS. Their values are defined in this section for easy maintenance.

### 7.2 Usability Survey Questions?

[This is a section that would be appropriate for some projects. —SS]