

# **Software Quality Assurance Test Plan**

**Project Name: DRUG SEARCH**

**Project No**

**Document Version: 1.0**  
**10/12/2018**

*Prepared By: Sravanthi Pasula*

**Department**

## REVISION HISTORY

Version Number	Date	Author	Description
1.0	10/12/2018	Sravanthi Pasula	Drug Search Test Plan

## DISTRIBUTION

Date	Name	Title

## REFERENCE DOCUMENTS

Document Number	Author	Comments

## SQA TEST PLAN SIGN-OFF

Title	Name	Signature	Date
Business Process Manager			
Comments:			

TABLE OF CONTENTS

<b>1</b>	<b>INTRODUCTION .....</b>	<b>4</b>
1.1	DOCUMENT OBJECTIVES .....	4
1.2	PROJECT INFORMATION .....	4
1.2.1	Business requirement .....	4
	Change to GIV Inventory Report .....	<b>Error! Bookmark not defined.</b>
1.3	IN SCOPE .....	4
1.3.1	Testing in scope for ST Functional System Test: .....	4
1.3.2	Test Phases in scope: .....	4
1.4	OUT OF SCOPE .....	5
1.4.1	Testing Out of scope for ST: .....	5
1.5	INTERDEPENDENCIES WITH OTHER PROJECTS/RELEASES/SYSTEMS .....	5
1.6	ROLES AND RESPONSIBILITIES .....	6
	<b>TEST OVERVIEW .....</b>	<b>6</b>
1.6.1	Test Planning .....	6
1.6.2	Test Design .....	6
1.6.3	Test Execution .....	7
1.6.4	Test Completion .....	7
1.7	Assumptions .....	7
1.8	Constraints .....	7
<b>2</b>	<b>FUNCTIONAL SYSTEM TEST APPROACH .....</b>	<b>8</b>
2.1	TEST APPROACH .....	8
2.2	DELIVERY TIMELINES .....	8
2.3	TEST CYCLES: .....	8
2.4	TEST DATA APPROACH .....	8
2.5	REGRESSION TESTING .....	8
2.6	SECURITY .....	8
2.7	AUDIT TRAIL .....	8
2.8	FUNCTIONAL SYSTEM TEST ENVIRONMENT .....	8
2.9	FUNCTIONAL SYSTEM TEST ENTRY AND EXIT CRITERIA .....	9
<b>3</b>	<b>TEST SCHEDULES .....</b>	<b>10</b>
3.1	ACTIVITY AND EFFORT SCHEDULE .....	10
3.2	BUILD SCHEDULE .....	11
<b>4</b>	<b>TEST MANAGEMENT AND REPORTING .....</b>	<b>12</b>
4.1	STATUS REPORTING .....	12
4.2	DEFECT MANAGEMENT .....	12
4.2.1	Defects resolution process .....	12
4.2.2	Defect Status .....	12
4.2.3	Defect Severity .....	13
4.2.4	Defect Priority .....	13

## 1 INTRODUCTION

### 1.1 Document Objectives

This SQA Test Plan depicts the overall system testing strategy for the project.

The System Testing (ST) Test Plan provides planning, approach, risks, assumptions and constraints.

This document supports the following objectives:

- Define system testing scope and approach.
- Identify potential risks to the success of testing and plan for mitigation and contingency planning.
- Identify existing project information and the software component that needs to be tested.
- Identify roles and responsibilities for key deliverables.
- Establish the test approach to ensure a successful test cycle and implementation.
- Provide a high-level schedule for testing activities.
- Identify the test environments and test data required.
- Establish test management, reporting and execution standards.
- Administer test management (for example: scheduling the test activity and resource assignment in accordance with testing priority).

### 1.2 Project Information

#### 1.2.1 Business requirement

1. Web client should allow a user to input a search terms related to drug records and return suggestions based on the input.
2. Once a search suggestion is selected the client should display more expansive information regarding the term.

### 1.3 In Scope

#### 1.3.1 Testing in scope for ST Functional System Test:

Functional or Non-Functional Component in scope	Comments (Mandatory)
Search drug records by main name	User should be able to search for drug records by main name.
Search drug mechanisms by name	User should be able to search for drug mechanisms by name.
Differentiate drug records and drug mechanisms	User should be able to differentiate between drug records and drug mechanisms in the auto suggestion features.
Search suggestions	User should be able to see search suggestions as they type.
Select from suggestions and able to see full drug record	User should be able select a drug from the suggestions and view the record for the full drug record.

---

Functional or Non-Functional Component in scope	Comments (Mandatory)
Select from suggestions and able to see collection of drugs associated	User should be able to select a mechanism from the suggestions and view the collection of drugs associated with the mechanism of action.

### 1.3.2 Test Phases in scope:

Test Phase	Performed by	Environment
Smoke Testing		
Functional System Testing (FST)		
Regression Testing		

## 1.4 Out of Scope

### 1.4.1 Testing Out of scope for ST:

The following Activities or functionality will be Out of scope for this SQA Testing effort.

Functional or Non-Functional Component out of scope	Comments (Mandatory)

## 1.5 Interdependencies with other Projects/Releases/Systems

Project / Release/System	Description of Dependency
N/A	

## 1.6 Roles and Responsibilities

Test Phase	Prime Role (see Note)	Name	Tasks	Supporting Roles
System Testing (Functional)	SQA Lead			
	SQA Engineers			
	Senior Applications Architect			
	Development Lead			
	Sr. Tech. manager			
	Functional SME			
	Project Manager			
	Business Process Manager			
	Sr Analyst, QA			
	Program Manager			

## TEST OVERVIEW

The testing life cycle is grouped under the following phases.

- Test Planning
- Test Design
- Test Execution
- Test Completion

### 1.6.1 Test Planning

Activities performed during the test planning phase include:

- Requirement Understanding
- SQA Test Plan and approval by IT stakeholders

### 1.6.2 Test Design

- Test Scenario generation and approval by stakeholders.
- Test Cases will be designed in the Test Plan module of HP QC.

#### 1.6.3 Test Execution

- Test cases will be executed via the defect tracker application.
- During test execution, actual test data will be recorded. Further, relevant application(s) screen shots will be captured and attached to relevant steps.
- Test cases will be marked 'Passed' upon successful execution. If a step in a test case fails, the test case will be marked 'Failed' followed by logging of a defect in the Defect module of application.

#### 1.6.4 Test Completion

- A Test Summary Report will be generated upon completion of SQA testing for review and sign-off the test.

### 1.7 Assumptions

ID	Assumption	Impact If Not True

### 1.8 Constraints

ID	Constraint
C1	
C2	

## 2 FUNCTIONAL SYSTEM TEST APPROACH

### 2.1 Test Approach

### 2.2 Delivery Timelines

### 2.3 Test Cycles:

Following are the test cycles planned for this project:

Test Phases	Performed by	Environment
Smoke Testing		
Functional Testing (Cycle I)		
Functional Testing (Cycle II – Defects Retest)		
Regression Testing		

### 2.4 Test Data Approach

Test data will be generated by creating the required transactions in SQA environment and run the report to generate the data.

### 2.5 Regression Testing

These features will be tested as part of regression test; the following cases will be executed to make sure there is no impact on existing business process.

Functionality/Process	Application
N/A	

### 2.6 Security

N/A.

### 2.7 Audit Trail

N/A.

### 2.8 Functional System Test Environment



## 2.9 Functional System Test Entry and Exit Criteria

ID	Functional System Testing Entry Criteria

ID	Functional System Testing Exit Criteria

### 3 TEST SCHEDULES

#### 3.1 Activity and Effort Schedule

SQA Activities	Dependency	Deliverable Milestone Dates	Comments
Planning			
Test Plan			
Test Design			
Test Scenarios			
Test Case creation			
Testing Readiness			
Test Data Creation			
Test Execution			

---

Test Summary			

### 3.2 Build Schedule

Build Frequency	Deploy Date Range
Code Drop	
Build Frequency for Critical and Major Defects	
Functional-Integration Testing	

#### 4 TEST MANAGEMENT AND REPORTING

##### 4.1 Status Reporting

Daily and Weekly SQA Status Reports will be generated out

Test Report Name	Initial Report Submission Date	Report Submitted By	Distribution	Frequency
Project Status				
Defect List				

##### 4.2 Defect Management

- All defects identified as part of testing process will be tracked and monitored through the defect management tool.
- Defects identified will be triaged with technical team, project manager and appropriate priority and severity will be assigned.
- Defects identified will be linked to failed test step of the test case.
- Issues that are classified and not a defect will be rejected, and linked test case will be executed.
- Defects confirmed for deferral will be deferred to future release with plan for deferral and related test case will be made obsolete.

###### 4.2.1 Defects resolution process

###### 4.2.2 Defect Status

Status	Description
New	
Open	
Fixed	
Closed	
Reopen	
Ready to Test	
Assigned	
Deferred	

Need more Info	
Triage	

#### 4.2.3 Defect Severity

Severity	Definitions
1-Urgent	
2-High	
3-Medium	
4-Low	

#### 4.2.4 Defect Priority

Priority	Definitions
1-Critical	
2-High	
3-Medium	
4-Low	

5 APPENDIX – ACRONYMS

Acronym	Description

End of Document