Test Plan

For

Round Trip Flight Search

Version 1.0

Prepared by

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**Revision and Signoff Sheet**

**Document History -** To maintain a list of changes being made

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| --- | --- | --- | --- |
| Version | Date | Author | Description of Change |
|  |  |  |  |

**Approvers List** **-** Totrack who has reviewed and signoff on the Test plan

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**Test Plan Version 1.1**

Table of Contents

[1 Introduction 4](#_Toc488327326)

[1.1 Document Purpose 4](#_Toc488327327)

[1.2 Objectives 4](#_Toc488327328)

[2 Project Scope 4](#_Toc488327329)

[2.1 Scope of the Project 4](#_Toc488327330)

[2.2 Out of Scope of the Project 5](#_Toc488327331)

[3 Project Resources 5](#_Toc488327332)

[3.1 Test Environment 5](#_Toc488327334)

[4 Test Strategies/Techniques 5](#_Toc488327335)

[4.1 Test Design 6](#_Toc488327336)

[5 Project Tasks/Schedule 6](#_Toc488327337)

[6 Defect Responsibility/Resolution 6](#_Toc488327338)

[7 Exit Criteria 6](#_Toc488327339)

[8 Goals and Deliverables 7](#_Toc488327340)

# Introduction

This Test Plan Version 1.0 provides the strategy for testing the scenario in “Round Trip Flight Search”. This section of the Test Plan document describes the following.

* Purpose
* Objectives

## Document Purpose

This test plan describes the testing approach, scope, schedule of intended

Testing activities undertaken for project “Round Trip Flight Search” -

<https://www.southwest.com/>. It provides description of the process to set up a

Valid test, Testing Scope, Defect management work flow.

## Objectives

This document provides the platform for testing the project Round Trip Flight Search. The objective of testing is to see if the project meets the “Requirement Specifications”. This document will provide the guidelines to test the functionalities embedded in the project and help for evaluating the Software Quality of the project.

# Project Scope

This section of the Test Plan document describes the Scope of the project and Out of Scope of the project “Round Trip Flight Search”.

## Scope of the Project

All the feature of this system is first manually tested to verify the functionality of the web page <https://www.southwest.com/>works according to the specifications. Automation test script is created to search round trip fare for 1 adult with 3 weeks in advance with return 4 days from Portland to New- York. Testing include – (1) Functional testing, (2) Integration testing (3) User Acceptance Testing (UAT). Complete test is scheduled to take one week.

The testing includes functions like

* Open Browser to home page
* Verify all the fields
* Check for Origin and Destination Airport name
* Calculate the Depart date
* Calculate the Arrive date
* Validating the result web page

## Out of Scope of the Project

Performance of the project “Round Trip Flight Search” for several users at the same time, Non-Functional testing and Back end testing is out of scope of this project at this point of time.

# Project Resources

Table 1 describes the Roles, Responsibilities and Resource Name for the testing of the Project “Round Trip Flight Search”.

|  |  |  |
| --- | --- | --- |
| **Role** | **Responsibilities** | **Resource Name(s)** |
| Tester | * Plan testing activities * Execute Test Cases * Find, report and track defects * Measure test effort * Analyze results | Sujitha Raj |
| **Developers** | * Deliver complete builds of the application * Provide Testers with feedback regarding changes, new functionality * Provide expertise and knowledge of the application-under-test * Eliminate agreed upon defects |  |
| **Business Analysts** | * Create Business Requirements |  |

**Table 1 - Project Roles and Responsibilities**

## Test Environment

Hardware/Software and Automation Tools installed for Testing

* Python -2.7.13
* Robot Framework 3.0.2
* Selenium2Library
* GitHub Platform
* Chrome driver

# Test Strategies/Techniques

This section of the document describes Test design and Test Data for the project “Round Trip Flight Search”.

## Test Design

Considering the scope of the project and the time limitations, the following tests are performed.

1. Functional Test –  This test verifies the application for usability, such as by ensuring that each functions are working as required
2. Integration Test – This test verifies the entire system’s functionality according to the specification.
3. Acceptance Testing – This test verifies whether the system needs to meet the initial objectives and customer’s expectations.

For performing the above tests, test cases are created as in excel sheet



# Project Tasks/Schedule

Table 2 describes the schedule for the Test Plan of the project “Round Trip Flight Search” ”.

| **Task** | **Artifacts** | **Projected Completion** |
| --- | --- | --- |
| **Test Plan Completed** | Test Plan Version 1.0 | 07-20-2017 |
| **Test Environment Setup** | Tools/ Hardware /Software | 07-17-2017 |
| **Test Cases Executed** | Test Plan Document version 1.0, Test Results Document | 07-19-2017 |
| **Integration test** | Test Plan Version 1.0 | 07-20-2017 |
| **Defects submitted and tracked** |  |  |

**Table 2 - Project Schedule**

# Defect Responsibility/Resolution

Defect register will be maintained to keep a track of all the defects found in the software.

# Exit Criteria

Testing can proceed to the next stage of the process All exit criteria should be satisfied by the end of the project.

* Verify if All tests planned have been run
* Verify if the level of requirement coverage has been met.
* Verify if there are NO Critical or high severity defects that are left outstanding.
* Verify if all high risk areas are completely tested

# Goals and Deliverables

Goals and deliverables of the test plan of the “Round Trip Flight Search”

1. **Goals:**

* To accomplish all tasks described in this test plan.
* To install a measurable, improvable, repeatable, and manageable test process.
* To verify the functionality and content of the current version of the application.
* To reduce the frequency of error associated with manual testing.

1. **Deliverables:**

* Test Plan Document
* Test Execution
* Test Report

**Test Report**

