**1. Test Plan Identifier**

**File Name:** 1.0\_SpiceJet\_tplan\_v1.0.doc

**Location: Chennai, Cognizant**

**2. Document History**

|  |  |  |  |
| --- | --- | --- | --- |
| **REV** | **Author** | **Edits** | **Date** |
| 1.0 |  | Initial Draft | 16/01/2020 |
|  |  |  |  |
|  |  |  |  |

**3. Introduction**

SpiceJet is an Indian Low Cost Airline. SpiceJet provide the lowest air fares and high consumer value to the Indian domestic transportation markets.

This test plan will outline the features to be tested as a part of passenger details in the 1.0 release of SpiceJet.

4. **Features to be tested**

Medium priority features are features that have been stable and High Priority features are features that have been recently changed.

|  |  |  |
| --- | --- | --- |
| **Feature To be Tested** | **Priority** | **Comments** |
| Registration | High |  |
| Login Functionality | High |  |
| Offers | High |  |
| Booking Tickets | High |  |
| Add Payment details/ Bank Details | High |  |
| Cancellation page | High |  |
| Logout Page | High |  |

1. **Features NOT to be Tested**

Help Contents will not be tested.

Installation and presentation will not be tested.

Support of the other architectures also will not be tested.

1. **Test Strategy**

The test strategy for SpiceJet 1.0 will include manual testing with automated testing. Automated testing will be used to test the basic Interface objects, keyboard and mouse navigation or any redundant tasks best translated to automation. Automated testing will be limited to a Win-7 64bit platform because of Automation tool limitations.

* Sanity test will include a very short unit/Functional tests to ensure the SpiceJet 1.0 runs/launches and can connect to the back end database. Test execution will happen as individual component testing. These tests will be fully automated.
* Acceptance tests will include a short Unit/Functional tests that will only touch major features to ensure SpiceJet 1.0 will operate smoothly at a basic level. These tests will be executed on Win-7, Win-10. The goal will be to automate all of these tests.
* Full Functional tests will include a comprehensive test of all features listed in this document. These tests will be limited to the Win-7, Win-10 client. This test will include automation with time allowing.

**Functionality Testing**

**Registration**

Verify New Registration

Verify Modification of the existing record

Verify Deletion of the existing record.

Verify Searching of existing of records.

Verify Refresh of the Data Fields.

Verify Closing of the registration window.

**Login**

Verify User ID or Mobile Number records.

Verify Password.

**Offers**

Verify the Coupons Expiry Date.

**Booking Tickets**

**Add Payment details/ Bank Details**

**Cancellation page**

**Logout Page**

**Usability Testing**

The usability testing will be accomplished by verifying the information in each window is accurate. Menus, icons and toolbar functionality will be tested as applicable to the navigation and results panes. Multi Window Overlapping will be tested because product supports opening of multiple documents.

Usability Testing will Tests:

* Images
* Font Size
* Font Colour
* Grammatical Mistakes
* Font Alignment
* Logos
* Data Base

**Robustness/Reliability Testing**

Test the GUI for correct keyboard and mouse navigation, windows, menus, buttons, etc. These tests will include Keyboard only navigation of SpiceJet 1.0, Mouse only navigation. Correctness and existence of warning/error dialog boxes. The correct/expected functionality of buttons, icons and menus.

**Stress Testing**

Not applicable

1. **Test Deliverables**

Business requirement specification

Functional requirement specification

Software requirement specification

Test plan specification 1.0\_SpiceJet\_tplan\_v1.0.doc

Test scenario

Test specification 1.0\_SpiceJet\_tplan\_v1.0.doc

Test case specification

Automation test plan Selenium

Test Checklist Selenium

Test Logs TBD

Tools Selenium, jira

**8. Testing Tasks & Resource Needs**

My SQL server

Write Test Specification.

Write Test Automation plan.

Write Test Checklist.

Setup workspace.

Develop Automation script.

Minimum requirements for platforms:

Processor: Pentium(R) Dual-Core CPU E5400 @ 2.70GHz 2.69GHz

Installed memory (RAM): 2.00GB

System type: 64-bit Operating System

**9. Schedule**

Test Documentation

| Document | Development Time | | Sign-off Date | Dependencies |
| --- | --- | --- | --- | --- |
|  | Person-Days | Completion Date |  |  |
| Test Plan | 2 days | 16-01-2020 |  | Functional Spec. Review |
| Test Specifications | 3 days | 17-01-2020 |  | Test plan, Functional Spec, Review |
| Test Logs | TBD |  |  |  |
| Test Summary Report | TBD |  |  |  |
| Checklist | TBD |  |  |  |

Test Development

| Deliverable | Development Time | | Dependencies |
| --- | --- | --- | --- |
|  | Person-Days | Completion Date |  |
| Functional Test Suite | 5 |  |  |
| Automation build | 15 |  |  |
|  |  |  |  |

Test Execution

| Test Activity | | Execution Time (Person-Days) | | | Dependencies |
| --- | --- | --- | --- | --- | --- |
|  | | Alpha | Beta | FCS |  |
| Acceptance | | 2 Days | 2 Days | 4 Days |  |
| Functional | Functionality | 5 | 4 |  |  |
|  | Usability | All High to Medium testcaces |  |  |
|  | Robustness | 9 Days |
|  | Stress |  |
|  | Multi Inst. |  |
| Regression | |  |  |  |  |
| Documentation Review | | 2 | 2 | 2 |  |
| Total Test Cycle | | 8 | 8 | 6 |  |

**10. Issues/Risks and Contingencies**

| RISK | CONTINGENCY | COMMENTS |
| --- | --- | --- |
| Any Automation will need to be created in parallel of testing. | Manual testing | Goal is to add Automation where possible.  Initial setup might be able to be worked on in an earlier stage if time permitting. |
| VB Accessibility Utilities and specs to verify compliance to Accessibility are not available. | Simplistic tests? | Accessibility guidelines are not specified in spec. |
|  |  |  |
|  |  |  |

**11. Approvals**

| POSITION  \* Approval Required | NAME | SIGNATURE | REVIEWED | APPROVED |
| --- | --- | --- | --- | --- |
| Tech Lead |  |  | Raghavendra BN |  |
| STAFF ENG, SW | Rajya Lakshmi Gudiseva |  | Raghavendra BN |  |
| Project Manager |  |  | Raghavendra BN |  |
| Clint Approval | Cognizant |  | Raghavendra BN |  |

12. **References**

SpiceJet 1.0 User Interface Specification

SpiceJet 1.0 Functional Specification

SpiceJet 1.0 Design Specification

SpiceJet 1.0 Software Requirement Specification