**1. Test Plan Identifier**

**File Name: SpiceJet**

**Location: Chennai, Cognizant.**

**2. Document History**

|  |  |  |  |
| --- | --- | --- | --- |
| **REV** | **Author** | **Edits** | **Date** |
| 1.0 |  | Initial Draft | 16/01/20 |
|  |  |  |  |
|  |  |  |  |

**3. Introduction**

SpiceJet is software product for booking flight tickets online. SpiceJet mission is to become India's preferred low cost airline, delivering the lowest air fare with the highest consumer value, to price sensitive to customers. SpiceJet hopes to fulfil everyone's dream of flying! With India s economic and business growth, the percentage of travelling population is burgeoning. More and more Indians are travelling for both business and pleasure and everyone need to save both time and money. SpiceJet vision is to address that and ensure that flying is for everyone.

This test plan will outline the features to be tested as part of passenger details in the 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 | High |  |
| Book Tickets | High |  |
| Payment Details | High |  |
| Offers | Low |  |
| Cancellation | High |  |
| Log Out | 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 SpiceJet1.0 will include both 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-64 platform because of Automation tool limitations.

* Sanity test will include a very short functional tests to ensure the SpiceJet1.0 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 functional of tests that will only touch major features to ensure SpiceJet1.0 will operate smoothly at a basic level. These tests will be executed on Windows 7, Windows 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 Windows7 client. These 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 Login id

Verify Password whether it is matched with the respective login id.

**Book Tickets**

Verify for flights that are available on the selected departure date.

Verify for available seats on the selected flight.

**Payment Details**

Verify for bank credentials filled by the Passenger

**Cancellation**

**Log Out**

**Usability Testing**

The usability testing will be accomplished by verifying the information in each window are 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.

6.1.1.0 Images

6.1.1.1 Logos

6.1.1.2 Font Size

6.1.1.3 Font Alignments

6.1.1.4 Copy right window

**Robustness/Reliability Testing**

Test the GUI for correct keyboard and mouse navigation, windows, menus, buttons, etc. These tests will include Keyboard only navigation of SpiceJet1.0, Mouse only navigation. Correctness and existence of warning/error dialog boxes. The correct/expected functionality of buttons, icons and menus.

**Stress Testing**

Not applicable

**7. Test Deliverables**

Business Requirement Specification

Functional Requirement Specification

Software Requirement Specification

Test Plan Specification

Test Scenario

Test case Specification

Test Plan SpiceJet1.0

Test Specification SpiceJet1.0

Test Automation Plan Selenium

Test Check TBD

Test Logs

Test tools Selenium, Segue Jira

**8. Testing Tasks & Resource Needs**

Use of Mysql database.

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 2.69 GHz

Installed memory (Ram): 4GB

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 | 17/01/2020 |  | Functional Spec. Review |
| Test Specifications | 3 days |  |  | Testplan, 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 | 8 | 22/01/2020 |  |
| 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 | 9 Days |  |
|  | Usability | All High to Medium testcaces |  |  |
|  | Robustness |  |
|  | 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 | Bala Murali Yalla |  | Raghavendra BN |  |
| Project Manager |  |  | Raghavendra BN |  |
| Clint Approval | CTS |  | Raghavendra BN |  |

12. **References**

SpiceJet1.0 User Interface Specification

SpiceJet 1.0 Functional Specification

SpiceJet 1.0 Design Specification

Software Requirement Specification