AIRLINE DOMAIN

Test Plan

VERSION HISTORY

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1. **INTRODUCTION**

**1.1 Purpose of Test Plan**

This test plan describes the testing approach and overall framework– inwavethemes.com site. The document introduces:

Test Strategy: rules the test will be based on, including the givens of the project (e.g.: start / end dates, objectives, assumptions); description of the process to set up a valid test (e.g.: entry / exit criteria, creation of test cases, specific tasks to perform, scheduling, data strategy).  Execution Strategy: describes how the test will be performed and process to identify and report defects, and to fix and implement fixes.  Test Management: process to handle the logistics of the test and all the events that come up during execution (e.g.: communications, escalation procedures, risk and mitigation, team roster)

**1.2 Project Overview**

inTravel is travel agency which can be used for booking tours like family, adventure, beaches and islands, history and culture, nature and wildlife, side seeing tours with different destination worldwide.

**1.3 Audience**

* Project team members perform tasks specified in this document, and provide input and recommendations on this document.
* Scrum Master Plans for the testing activities in the overall project schedule, reviews the document, tracks the performance of the test according to the task herein specified, approves the document and is accountable for the results.
* Technical Team ensures that the test plan and deliverables are in line with the design, provides the environment for testing and follows the procedures related to the fixes of defects.
* Business analysts will provide their inputs on functional changes.

1. **TEST STRATERGY**
   1. **Test Objectives**

The objective of the test is to verify that the functionality booking tour works according to the specifications.

The test will execute and verify the test scripts, identify, fix and retest all high and medium severity defects per the entrance criteria, prioritize lower severity defects for future fixing via CR.

The final product of the test is twofold:

* A production-ready software;
* A set of stable test scripts that can be reused for Functional and UAT test execution.
  1. **Test Assumptions**

**Key Assumptions**

Production like data required and be available in the system prior to start of Functional Testing.

**General**

* Exploratory Testing would be carried out once the build is ready for testing. Performance testing is not considered for this estimation.
* All the defects would come along with snapshot JPEG format
* The Test Team will be provided with access to Test environment.
* The Test Team assumes all necessary inputs required during Test design and execution will be supported by Development/BUSINESS ANALYSTs appropriately.
* Test case design activities will be performed by QA Group
* Test environment and preparation activities will be owned by Dev Team
* BUSINESS ANALYST will review and sign-off all Test cases prepared by Test Team prior to start of Test execution
* The defects will be tracked through Jira only. Any defect fixes planned will be shared with Test Team prior to applying the fixes on the Test environment
* Project Owner/BUSINESS ANALYST will review and sign-off all test deliverables
* The project will provide test planning, test design and test execution support
* Test team will manage the testing effort with close coordination with Project PM/BUSINESS ANALYST

**Functional Testing**

* During Functional testing, testing team will use preloaded data which is available on the system at the time of execution
* The Test Team will be performing Functional testing only on booking tour module.

**UAT**

* UAT test execution will be performed by end users and QA Group will provide their support on creating UAT script.
  1. **Test Principle**
* Testing will be focused on meeting the business objectives, cost efficiency, and quality.
* There will be common, consistent procedures for all teams supporting testing activities.
* Testing processes will be well defined, yet flexible, with the ability to change as needed.
* Testing activities will build upon previous sprints to avoid redundancy or duplication of effort.
* Testing environment and data will emulate a production environment as much as possible.
* Testing will be a repeatable, quantifiable, and measurable activity.
* Testing will be divided into distinct phases, each with clearly defined objectives and goals.
* There will be entry and exit criteria.
  1. **Scope and Level of testing**

**2.4.1 Exploratory Testing**

**PURPOSE**: the purpose of this test is to make sure critical defects are removed before the next levels of testing can start.

**SCOPE**: First level navigation, dealer and admin modules

**TESTERS**: Testing team.

**METHOD**: this exploratory testing is carried out in the application without any test scripts and documentation

**TIMING**: at the beginning of each sprint.

**2.4.2 Functional Testing**

**PURPOSE:**  Functional testing will be performed to check the functions of application. The functional testing is carried out by feeding the input and validates the output from the application.

**TESTERS**: Testing Team.

**METHOD**: The test will be performed according to Functional scripts, which are stored in Jira

**TIMING**: after Exploratory test is completed.

#### 

**2.5 TEST DELIVERABLES**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Deliverable Name** | **Author** | **Reviewer** |
| 1. | Test Plan | Scrum Master | Project Owner/  Business Analyst |
| 2. | Functional Test Cases | Test Team | Business Analyst |
| 3. | Logging Defects in Jira | Test Team | Team |
| (4. | Daily Stand Ups | Test Team | Scrum Master |
| 5. | Test Closure report | Scrum Master | Product owner |

1. **EXECUTION STRATERGY**
   1. **Entry & Exit Criteria**

* The entry criteria refer to the desirable conditions in order to start test execution; only the migration of the code and fixes need to be assessed at the end of each sprint.
* The exit criteria are the desirable conditions that need to be met in order proceed with the implementation.
* Entry criteria to start each cycle: the activities listed in the Test Execution section of the schedule are 100% completed at each cycle.
* Exit Criteria should be when

1. 100% Test scripts executed
2. 95% pass rate of Test Scripts
3. 95% Medium severity defects have been closed.
4. No Highest and High severity defects.
5. All expected and actual results are captured and documented with test script.
6. All defect logged in Jira.
   1. **Defect Management**

When a new defect is logged by Tester, the status would be “TO DO"

Retest Fails

Retest pass

TO DO

IN-PROGRESS

TO DEPLOY

DEPLOYED

IN REVIEW

DONE

When a developer starts to look into the defect, the status of the defect would be "IN\_PROGRESS"

When a defect is fixed, the developer would change the status into "To Deploy"

Admin will deploy the fix to test environment

Tester will change the status to "In REVIEW" when defects are under retesting

If the defect passed in retesting, tester would change the status to Done

**3.3 Defect Severity**

|  |  |  |
| --- | --- | --- |
| **Severity** |  | **Impact** |
| 1 Highest |  | This bug is critical enough to crash the system, cause file corruption, or cause potential data loss |
|  |  | It causes an abnormal return to the operating system (crash or a system failure message appears). |
|  |  | It causes the application to hang and requires re-booting the system. |
| 2 High |  | It causes a lack of vital program functionality with workaround. |
| 3 Medium |  | This Bug will degrade the quality of the System. However, there is an intelligent workaround for achieving the desired functionality - for example through another screen. |
|  |  | This bug prevents other areas of the product from being tested. However other areas can be independently tested. |
| 4 Low |  | There is an insufficient or unclear error message, which has minimum impact on product use. |

1. **Role Expectation**
   1. **Product Owner**

* reviews the content of the Test Plan, Test Strategy and Test Estimates signs off on it.

**4.2 Scrum Master**

* Ensure entry criteria are used as input before start the execution.
* Develop test plan and the guidelines to create test conditions, test cases, expected results and execution scripts.
* Provide guidelines on how to manage defects.
* Attend status meetings in person or via the conference call line.
* Communicate to the test team any changes that need to be made to the test deliverables or application and when they will be completed.
* Conduct Daily Stand ups
* Provide functional (Business Analysts) and technical team to test team personnel (if needed).

**4.3 Team**

* Develop test conditions, test cases, expected results, and execution scripts.
* Perform execution and validation.
* Identify, document and prioritize defects according to the guidance provided by the Test lead.
* Re-test after software modifications have been made according to the schedule.
* Prepare testing metrics and provide regular status.

1. **Test Environment**

A windows environment with Firefox 27.0 and Google Chrome32.0 should be available to each tester.