Flight Ticket Booking Test Plan

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Document History

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1.0	20.05.2022	Creation of Test Plan	Pratik Shingote	Syed Asif

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1 Introduction

1.1 Description

The document is a test plan for the AMG Integration program, produced by Quality Assurance. It describes the testing strategy and the approach to testing QA will use to validate the quality of this product prior to release. It also contains various resources required for the successful completion of this project.

1.2 Related Documents

The following documents have been referred for the preparation of the Test Plan:

1) Software Requirement Specifications
2) Functional Spec document
3) User Guide received from AMG
4) Screen Shots

2 Objectives and Tasks

2.1 Objectives

The testing is carried on with an objective to bring the best out of the application in terms of requirement matching, quality, functional stability and usability. The ultimate objective is to achieve customer satisfaction on the application.

2.2 Tasks

To achieve the objectives defined, the following tasks including the types of testing would be performed onsite/offshore:

a) Unit Testing
b) Functional and Integration Testing
c) User Acceptance Testing

3 Scope of Testing

The testing performed would cater to the functional and non-functional requirements specified by the Client and as defined in the Requirements document and would be limited to the application being developed by development team.

4 Testing Process

The following are the activities that are carried out as part of Testing:

1. Test Planning
2. Test Execution
3. Test Closure

In the Test Planning phase, the activities carried out will include:

1. Understanding the Client Requirement (includes seeking clarification)
2. Preparation of Test Conditions
3. Review and Approval of Test Conditions

4. Preparation of Test Scripts
5. Review and Approval of Test Scripts
6. Preparation of Test Data
7. Review and Approval of Test Data
8. Preparation of Traceability Matrix
9. Defining Entry and Exit criteria for Testing

In the Test Execution phase, the activities carried out will include:

1. Setting up the Test Environment
2. Execution of Test Scripts – 3 Rounds
3. Defect Reporting and Tracking defects to closure
4. Regression Testing

In the Test Closure phase, the activities carried out will include:

1. Preparation of Final Summary Report
2. Final Test Deliverables

5 Test Strategy

5.1 Unit Testing

Documents Required from the Development Team -

1. Architecture Design Document (ADD)
2. Data Definition Document (DDD)
3. Program Specification (PS)

Entry Criteria for Unit Testing:

1. Receipt of Documents from the Development Team
2. Approved set of Unit Test Conditions and Test Scripts
3. Availability of Test Environment
4. Deployment of Code in the Testing Area

Exit Criteria for Unit Testing:

1. Complete execution of all the unit level test scripts
2. Closure of all the defects raised during Unit Testing

5.2 Functional and Integration Testing

Documents Required from the Development Team -

1. Software Requirement Specification (SRS)

Entry Criteria for Functional and Integration Testing:

1. Sign-off on Unit Testing
2. Receipt of Documents from the Development Team
3. Approved set of Functional Test Conditions and Test Scripts
4. Availability of Test Environment
5. Deployment of Code in the Testing Area

Exit Criteria for Functional and Integration Testing:

1. Complete execution of all the functional and integration level test scripts
2. Closure of all the defects raised during Functional and Integration Testing

5.3 User Acceptance Testing

Documents Required from the Development Team/Client:

1. User Requirement Specifications

Entry Criteria for User Acceptance Testing:

1. Approved set of identified business scenarios
2. Availability of Test Environment

Exit Criteria for Performance and Load Testing:

1. Acceptance from the User with respect to the usage of the application

6 System Requirements

Software Requirements

- JavaScript
- HTML
- JDK 1.8

7 Features to be Tested

- Test for the functional and non-functional requirements specified in the SRS.
- Test for the changes that add new functionality or significantly modify existing functionality for the expected result. Also test for the side effects in the related parts for any unexpected behavior.

8 Features not to be Tested

- Features available in the Production Server
- Communication between the Production Server and Reward Link Gateway
- Interface to the SMS System

9 Roles and Responsibilities

Role	Responsibility
QA Engineer Pratik Shingote	□ Understanding the Application □ Preparation of Test Ware Documents □ Execution of Test Scripts □ Defect Logging
QA Lead Syed Asif	□ Identification of Business Scenarios □ Setting up the Test Environment □ Review of Technical Documents □ Review of Test Ware Documents □ Coordination with the Development Team □ Coordination with ICT and Systems Department □ Status Reporting

10 Activity and Dependencies

Activity	Dependencies	Role
Understanding the application	Receipt of Requirement Document, Access to Existing Application, Receipt of Internal Technical Documents	QA Engineer, QA Lead
Preparation of Test Conditions	Receipt of Technical Documents and completion of understanding	QA Engineer
Review of Test Conditions	Completion of Test Condition	QA Lead
Preparation of Test Scripts	Receipt of Technical Documents and completion of Test Conditions	QA Engineer
Review of Test Conditions	Completion of Test Scripts	QA Lead
Identification and documentation of Business Scenarios	Receipt of Technical and User Specification Document	QA Lead
Preparation of Traceability Matrix	Completion of Test Conditions and Test Scripts	QA Engineer
Review of Traceability Matrix	Completion of Traceability Matrix Document	QA Lead
Test Execution	Completion of Test Ware Setting up of Test Environment Deployment of Code in the Test Area	QA Team
Test Closure	Completion of Test Execution and Sign-off	QA Lead

11 Risks and Mitigation

Risk	Mitigation
Human Resource	Back up Resources will be maintained and trained to take up the job done by the main resource, in case of their absence
Skill	The resources belonging to the project are duly trained for the skills required to carry on the project effectively
Software Availability	The software that are required to perform testing will be identified and purchased (if required) well in advance
Hardware Availability	The hardware that is required to perform testing will be Identified and purchased (if required) well in advance. Back up servers in case of failures, will be in place
Environment Availability	The environment required to perform testing will be identified and set up on time

12 Assumption

The testing will be carried on, on the assumption that the entry and exit criteria as defined at each stage of testing will be duly available and addressed in case of any discrepancies.

13 Tools

The following are the list of tools that will be used for the purpose of testing the **BlazeDemo** application:

- Functional Tool – Selenium
- Load Tool – Apache JMeter
- Defect Tracking – Jira

14 Approval

- The documents prepared by the QA Team will be duly reviewed and approved by the QA Lead
- The System Architect and System Analyst will duly review and approve the documents prepared by the QA Lead