**TEST PLAN**

**&**

**TEST STRATEGY**

**URBANLADDER WEB APPLICATION**

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**1. Introduction**

**1.1 Purpose**

The purpose of this document is to provide an overview for the System Testing of the webpage. This document covers the testing scope, Entry- Exit criteria, QA Deliverables, QA schedule, High level test Scenarios, Assumptions & Dependencies, Test Management and Risk & Mitigations.

**1.2 Referred Documents**

* The Tours Business Requirements Specifications(BRS)
* The Tours Functional Requirement Specifications(FRS)

**2 Scope**

**2.1 In Scope**

* Testing the user and Hotel modules in this project.
* Function system testing of all test scenarios mentioned under 10.0
* Creation of Test Requirements, Test Cases and Test Sets in Quality Center 9.0
* Preparation of Test Data for Executing the Test Cases.
* Test case Execution for 2 Cycles and defect Tracking
* Test case execution on the following Operating System Windows2000.
* Test Case execution using the following browsers -Chrome101

**3 Assumptions and Dependencies**

**3.1 Assumptions**

* The main drivers for System Testing are the functionalities contained within the functional specification documents. These will define the scope of the testing and it is assumed that once functionality from these has been tested then full coverage has been achieved.
* Staging server will be accessible
* Contact Details of the person concerned with resolving environmental issues will be provided.
* Formal and Intensive Unit and Integration testing will be done by the Development Team

**3.2 Dependencies**

* + Knowledge transfer on Functionality as well as Technology to offshore testing team Availability of Development environment to validate test scripts
  + Availability of ACL connection to applications from offshore.
  + Availability of ACL connection to Database from offshore.
  + Availability of Database scheme description to understand the Database Structure
  + Availability of all necessary software's description and Operating System's
* Test Data as specified by the QA Team, injected into the stage environment .
* All necessary User ID's & passwords provided to the QA team.

**4.0 Risks and Mitigations**

|  |  |  |  |
| --- | --- | --- | --- |
| **Risk** | **Likelihood** | **Impact** | **Mitigation** |
| Application not accessible or not responding properly during properly during test execution due to environmental issue. | Low | High | Perform an environment sanity check before starting the formula testing Obtain Mobile/Pager numbers of IT team members to escalate Pl environment issue |
| Test Teams does not have enough knowledge of the application | Low | High | Organize extensive knowledge transfer sessions with offshore team. |
| Development team having less knowledge of Quality Center9.0 | Low | High | QA team will provide clarifications to the development team |
| Presence of large number of blocking Defect's during test executed this would prevent or delay | Low | High | Daily defect meeting will be utilized to prioritize defects QA coordinator will work closely with the IT team lead to provide |

**5.0 System Testing Entry and Exit Criteria**

**5.1 Entry Criteria**

The following must be in place prior to the onset of QA System Testing

**Business**

* The Business Requirement Document is "frozen"
* All new Requirements that arise are initiated through Change Control process.

**QA**

* Daily communication plan in place.
* Test Case Reviewed and signed-off
* Cross-functional, dependent teams and resolved identifies
* QA Data Requirements identified and all necessary password/accesses obtained.
* Daily Defect meeting Day/Time/Attendance established in the execution phase
* All appropriate team members have access to Quality Center 9.0

**5.2 Exit Criteria**

The following must be in place prior to the sign-off of QA System Testing

* No open P1 or P2 defects.
* All P3-PS(enhancements) defects have a documented resolution place. A minimum of 2 test cycles (100% execution) is completed.
* 95% Pass Rate of all test cases.
* Regression Testing of defects fixed during system testing
* All defects logged in Quality Center 9.0. QA sign-off on System test
* System Test Close-out report provided.
* Documented list of any outstanding(open)defects

**6.0 QA Deliverables**

The following items will be delivered

* System Test Plan
* Test Case (Maintained in Quality Center)
* Daily Test Execution Report
* System Test Exit Report
* Defect Log (Maintained in Quality Center)
* Traceability Matrix
* Exit Report
* Project Metrics

**7.0 QA Schedule**

|  |  |  |  |
| --- | --- | --- | --- |
| QA Activites | QA Deliverables | Start Date | End Date |
| Analysis of the Documents | Understanding Document | 19/02/2002 | 19/02/2002 |
| Test Planning | Test Plan Document | 20/02/2022 | 20/022022 |
| Test Scenario Identification & documentation | Test plan Document | 21/02/2022 | 21/02/2022 |
| Test Case Preparation & Validation | Test Scenario Document | 22/02/2022 | 22/02/2022 |
| Test Environment Setup | NA | 23/02/2022 | 23/02/2022 |
| Test Case execution & Defect tracking | Complete the execution & defect log maintained in Quality Center | 24/02/2022 | 24/02/2022 |
| End-to-End Test Scenario Identification & End-to-test cases | End-to-End Test Scenario & End -to-End Test cases | 25/02/2022 | 25/02/2022 |
| System Testing Sign-off | Exit Report | 26/02/2022 | 26/02/2022 |

**8.0 Build Schedule**

New builds will only be deployed in stage environment as per build schedule. Only emergency builds can be deployed on other dates. Each build should have version number Email to QA coordinator must be sent after successful installation of build Sanity test by IT team should be conducted after build installation.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No  Days | Activity | No of Recourses | Start Date | End Date | No of |
| 1 | Build#1 | 1 | 19/02/2022 | 21/02/2022 | 2 |
| 2 | Build#2 | 1 | 22/02/2022 | 23/02/2022 | 1 |

**9 Test Environment**

The following list of software will be required in the System Test Environment

|  |  |
| --- | --- |
| QA URLs | BANK- https://www.urbanladder.com/ |
| Web Browser | Chrome 100.\* |
| Test Management Tool | Quality Center-8.0 SP2 https://www.urbanladder.com/ |
| Operating | Domain Shopping |
| System | Microsoft windows 2000 |
| H/W | Intel(R) Pentium, 2.8 GHZ, 501MB |

**10 High Level Test Scenario**

|  |  |
| --- | --- |
| **S#** | **Test Scenario** |
|  | **Customer Module** |
| 0.1 | Home Page |
| 0.2 | Login Page |
| **1** | **Sale** |
| 1.1 | Living |
| 1.2 | Bedroom and dining |
| 1.3 | Others |
| 1.4 | Stores |
| 1.5 | Promotions |
| **2** | **Track order** |
| 2.1 | Track your order using order number |
| **3** | **Cart** |
| 3.1 | Place an order |
| **4** | **Whitelist** |
| 4.1 | Add to cart |
| 4.2 | Remove from whitelist |
| **5** | **Collections** |
| 5.1 | New arrivals |
| 5.2 | All furniture |
| 5.3 | UL Exclusive |
| 5.4 | Best sellers |
| 5.5 | Premium |
| **6** | **Video** |
| 6.1 | Reserve a slot |
| **7** | **Gift Cards** |
| 7.1 | Gift Cards Gift card to shop |
| **8** | **Bulk Orders** |
| 8.1 | Office & co-working |
| 8.2 | Restaurants and cafe |
| 8.3 | Model apartment |
| 8.4 | Hotel & Resort |
| **9** | **Help** |
| 9.1 | Help Center |

**11 Test Approach**

**11.1Test Preparation**

* The QA Team will prepare Test scenarios and Test requirements based on all project related documents provided by the project team.
* The QA Team will prepare the system test cases to validate each Test Scenario and Test requirement.
* The system test cases will check the application functionality by supplying a set of valid and invalid inputs.
* The system test cases will be reviewed by the development PL. The Test Lead/Analyst will approve the document. The test cases will be stored in Quality Center from the draft stage itself. The test coordinator will export the test cases in excel format for ease of review.
* SQL queries will be attached to the relevant steps of the scripts to validate the information

on the screen will be validated against the information contained in the database.

**11.2 Test Execution**

* The test scripts will be executed manually. The results will be validated against the expected results listed in the test scripts. Any defect found in this process will be logged in Quality Center 9.0.
* Where applicable the information on the screen will be validated against the information obtained in the database. Pre-defined SQL queries will be attached to the relevant steps of the test scripts. The tester will copy and paste these queries in Toad SQL, window and execute them to obtain the result. The comparison will be done by manual method.
* The application development team will review defects raised by the QA team. The tester will provide all necessary information about the defect in Quality Center 9.0 Attachment tab of Quality center will be used for providing any screen shots, files required for investigating the defects.
* After the completion of the testing run, the peer team member of the Testing Team reviews the results. The test result is reported to the project PL who will approve the test results. This process may repeat till the number of bugs found is within the acceptable limits and the test exit criteria previously determined is achieved.

**12. Testing Tools**

* Automation and Test management tools needed for test execution
* Java, Selenium, Maven
* Figure out number of open-source as well as commercial tools required, and determine how many users are supported on it and plan accordingly

**13. Review and Approvals**

The QA Manager, Test Team Lead , Project Manager shall review and approve the final version of the Test Plan Strategy document