**Test Plan Document**

**Test Strategy Document**

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**1.0 Introduction**

**1.1 Project Overview**

Home page allows the customers to login and access the application for further usage, and it provides various information about services provided by the website.

The objective of this e-commerce website in project is to create the customer all over the world and popular their products in the market.

**1.2 Purpose**

The purpose of this document is to provide an overview for system testing (ST) of this website. This document covers the testing scope, Entry-Exit Criteria, QA Deliverables, QA Schedule, High Level Test Scenarios, Assumptions& Dependencies, Test management & Risks & Mitigations.

**1.3 Referred Documents**

The e-commerce Business Requirements Specifications (BRS)

The e-commerce Functional Specifications document (FRS)

**2.0 Scope**

**2.1 In Scope**

* Testing the Admin and end user modules in e-commerce project.
* Functional/system testing of all test scenarios mentioned under sec10.0
* 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 Windows
* Test Case execution using the following browsers -Microsoft edge

**2.2 Out of Scope**

* Load and Performance testing
* Unit and Integration testing is not part of this scope

**3.0 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 person concerned with resolving environmental issues will be provided
* Formal and Intensive Unit and Integration testing will be done by the Developer Team
* Defects will be dealt with in timely fashion by all teams involved
* New builds will be deployed in QA environment as per build schedule
* All identified High-level test scenarios can be simulated in test environment

**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 Database schema description to understand the Database structure
* Availability of All necessary software and Operating system
* 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** | **Mitigations** |
| Application not accessible or not responding properly during test execution due to environmental issue | Low | High | Perform an environment sanity check before starting the formal testing |
| Test team 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 Center | Low | High | QA team will provide clarifications to the development team |
| Changes to Requirements | Medium | Medium | All new Requirements that arise are initiated through Change control process |

**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 Requirements document is frozen
* All new Requirements that arise are initiated through Change Control process

**QA**

* Daily communication plan in place
* Test cases Reviewed & signed-off
* Cross-functional, dependent teams & resources identified
* QA data Requirements identified & all necessary passwords/accesses obtained
* Daily Defect Meeting Day/Time/Attendance established in the execution phase
* All appropriate team members have access to Quality Center
* Test cases have been linked to test sets in Quality Center

**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-P5 defects have a documented resolution plan
* 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
* 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 Cases
* Daily Test Execution Report
* System Test Exit Report
* Defect log
* Trace ability Matrix
* Exit Report
* Project Metrices

**7.0 QA Schedule**

|  |  |  |  |
| --- | --- | --- | --- |
| **QA Activities** | **QA Deliverable** | **Start Date** | **End Date** |
| Analysis of the Documents | Understanding Document | 13/05/2022 | 13/05/2022 |
| Test Planning | Test Plan document | 14/05/2022 | 14/05/2022 |
| Test Scenarios Identification & documentation | Test Scenarios document | 15/05/2022 | 15/05/2022 |
| Test Case Preparation and validation | Test Cases, Test Data | 16/05/2022 | 16/05/2022 |
| Test environment Setup | NA | 17/05/2022 | 17/05/2022 |
| Test case Execution and defect tracking | Complete the execution and defect log maintained in Quality Center | 18/05/2022 | 18/05/2022 |
| System testing Sign-off | Exit Report | 19/05/2022 | 19/05/2022 |

**8.0 Test Environment**

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

|  |  |
| --- | --- |
| QA URLs | Urban ladder-https://www.urbanladder.com/ |
| Web Browser | IE |
| Test Management Tool | Quality Center SP2 https://www.urbanladder.com/  Domain: E-commerce |
| Operating System | Microsoft windows |
| H/W | Intel(R)Prentium,2.8GHZ,500MB |

**9.0 High Level Test Scenarios**

|  |  |
| --- | --- |
| **S#** | **Test Scenario** |
| 1.0 | Home Page |
| 1.1 | Signup |
| 1.2 | Login |
| 1.3 | Logout |
| 2.0 | Search Product |
| 2.1 | Add to Cart |
| 2.2 | Add to Wishlist |
| 2.3 | Track order |
| 2.4 | Search stores |
| 3.0 | Check Wishlist |
| 3.1 | Check cart |
| 3.2 | Enter Address |
| 3.3 | Enter payment details |
| 3.4 | View Order |
| 3.5 | Remove from Cart |
| 3.6 | Remove from Wishlist |
| 3.7 | Help |

**10.0 Test Approach**

**10.1 Test 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.

**10.2 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 the process will be logged in Quality center.
* The application development team will review defects raised by the QA team. The Tester will provide all necessary information about the defect in the Quality Center. 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.

**10.3 Test Planning**

**Quality Center**: **Requirements**-Requirements will be documented in the Requirements module and associated with applicable test cases

**Quality Center: Test Plan**-Test cases will be written in the Test Plan tab. Test Cases will be organized by subject. At this time, all test cases are written for manual execution.

**Quality Center: Test Lab**-Test Sets containing test cases to be executed during System Test will be created in and executed from the Test Lab tab. Test cases will be executed manually.

**Quality Center: Defects-**The Quality Center Defects tab will be used to log and communicate Status of defects. If a test case does not meet the expected result, the test case will be failed and defect will be logged identifying the problem.

**10.4 Testing Tools:**

* Automation and Test management tools needed for test execution
* Java
* Selenium
* IE
* Maven

**11.0 Defect Management**

**11.1 Prioritization of Defects**

During system, business and user acceptance testing, defects will be logged in Quality Center and assigned a status and priority. Any “showstopper” issues will be assigned a priority of PI. Issue priorities are defined as follows.

**P1-High-**affects core functionality; prevents availability or interrupts testing, no workaround available. Must be resolved ASAP

**P2-Medium High**-affects core functionality; interrupts testing; workaround available. Must be resolved within 2 business days

**P3-Medium**-interrupts isolated test cases; UI problems; workaround available. Resolution pending schedule

**P4-Medium Low-**affects isolated test cases; nice-to haves; UI enhancements; workaround available. Resolution pending schedule

**P5-Low**-Cosmetic defects; workaround available. Resolution pending schedule

**P6-Very Low**-Deferred for future releases

**12.0 Reviews and Approvals**

The QA Manager, Team Lead, Testing Manager will review and approve the final Test Plan and Test Strategy document.