TEST PLAN

<<bigsmall.in>>

Abstract

This document provides an overview of the project and the product test strategy, a list of testing deliverables and plan for development

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INTRODUCTION

This test plan describes the testing approach and overall framework that will drive the testing of the Bigsmall shopping site (https://www.bigsmall.in/).

The test plan helps to identify what are the different features that are to be tested, which features are not to be tested, who will perform the testing operation, when the testing of an application should be performed, what are the different types of risks associated with the project, the resources and schedule required to complete the testing.

1. TEST STRATEGY

The objective of the test is to verify that the functionality of Bigsmall.in module 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.

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. Scope of Testing
     1. Features to be tested

|  |  |  |
| --- | --- | --- |
| MODULE NAME | APPLICABLE ROLES | DESCRIPTION |
| Opening the Bigsmall.in website through the URL (https://www.bigsmall.in/) | Customer | The customer should be able open the website and able to navigate to the home page of bigsmall |
| Login | Customer | Customer should be able to login to his/her account |
| Sign Up | Customer | New Customers should be able to create their new accounts |
| Purchasing the required gift | Customer | Customer should be able to select required gift |
| Adding to the cart | Customer | Customer should be able to add selected item to cart |
| Item visible in the cart | Customer | Customer should be visible in the cart for adding to order |
| Placing order | Customer | Customer should be able to place order and should able to see the order details |
| Tracking | Customer | Customer should be able to track order |
| gift cards | Customer | Customer should be able to send gift cards to their friends and relatives. |
| logout | Customer | Customer should be able to logout of the bigmall site after all the function done. |

* + 1. Features not to be tested

These features are not be tested because they are not included in the software requirement specification:

- User Interfaces

- Hardware Interfaces

- Software Interfaces

- Database logical

- Communications Interfaces

- Website Security and Performance

1.2. Test Type

In the project Bigsmall, there are 5 types of testing that should be conducted

- **Unit Testing** (Individual software modules are tested)

- **Integration Testing** (Individual software modules are combined and tested as a group)

- **System Testing**: Conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements

- **API testing**: Test all the APIs create for the software under test

- **User Acceptance Testing**: The end users, clients conduct the test to verify the application met their requirements.

* 1. Scope and Levels of Testing

**Exploratory**

**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 cycle.

**Functional Test**

**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.

**Scope:** The excel sheet details gives the scope of Functional test. Note: The scope is high level due to changes in the requirement.

**TESTERS**: Testing Team.

**METHOD**: The test will be performed according to Functional scripts

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

1.4. Risk and Issues

|  |  |
| --- | --- |
| **RISK** | **MITIGATION** |
| Team member lack the required skills for website testing | Training should be given to the members proficient |
| Testing schedule is tight. If the start of the testing is delayed due to design tasks, the test cannot be extended beyond the UAT scheduled start date. | Test priority should be set for each of the test activity |
| Defects are found at a late stage of the cycle or at a late cycle; defects discovered late are most likely be due to unclear specifications and are time consuming to resolve. | Defect management plan is there to ensure prompt communication and fixing of issues. |
| Test manager has poor management skills | Manager should be given leadership training |
| Not enough resources | Track resource availability, View project schedules to monitor task progress |
| Changes in the requirement during development | Fixing the basic list of requirements in the contract, Frequent demonstrations of new functionality |

1.5. Test Logistics

1.5.1. Who will test ?

The testing team should perform the test.

For user acceptance testing the following will do the testing:

1. Collaborating with various stakeholders – project sponsors, business owners, business analysts, development and testing team.
2. Client
3. End Users

1.5.2. When the test will occur ?

The tester will start the test execution when all the following inputs are ready

- Software is available for testing

- Test Specification is created

- Test Environment is built

- Enough human resource for testing

2. TEST OBJECTIVE

The objective of the test is to verify the functionality of website Bigsmall. The project should focus on testing all the functionality present in the website like login to the account, buy a product, add items to cart, view cart, track order details etc. to

guarantee all these operations can work normally in real business environment.

3. TEST CRITERIA

3.1. Entry Criteria

The entry criteria contain the following conditions:

* White box testing should be finished.
* Understand and analyze the requirement and prepare the test documents or when the test documents are ready.
* Test data should be ready.
* Build or the application must be prepared
* Modules or features need to be assigned to the different test engineers.
* The necessary resource must be ready.

3.2. Suspension Criteria

If the team members report that there are **40%** of test cases **failed**, suspend testing until the development team fixes all the failed cases.

3.3. Exit Criteria

The exit criteria contain the following conditions:

* When all the test cases are executed.
* Most of the test cases must be **passed**.
* Depends on severity of the bugs which means that there must not be any blocker or major bug, whereas some minor bugs exist.

4. RESOURCE PLANNING

4.1. System Resource

|  |  |  |
| --- | --- | --- |
| **No.** | **Resources** | **Description** |
| 1. | Computer | Windows 10 Operating System, 8GB Ram,  Processor : Intel(R) Core(TM) i5-3470S CPU @ 2.90GHz 2.90 GHz |
| 2. | Browsers | Mozilla Firefox, Google Chrome, Internet Explorer |
| 3. | Testing tool | Selenium  Eclipse |
| 4. | Network | Setup a LAN with the speed at least 10 Mb/s |

4.2. Human Resource

|  |  |  |
| --- | --- | --- |
| No. | Member | Tasks |
| 1. | Test manager | |  | | --- | | Manage the whole project  Define project directions  Acquire appropriate resources | |
| 2. | Test | Identifying and describing appropriate test techniques/tools/automation architecture  Verify and assess the Test Approach  Execute the tests, Log results, Report the defects.  Outsourced members |
| 3. | Developer in test | Implement the test cases, test program, test suite etc. |
| 4. | Test Administrator | Builds up and ensures test environment and assets are managed and maintained  Support Tester to use the test environment for test execution |
| 5. | End Users | Performs the user acceptance testing to validate their requirements are fulfilled or not |

5. TEST ESTIMATION

5.1. Task and Estimation

|  |  |  |
| --- | --- | --- |
| **TASK** | **MEMBERS INVOLVED** | **ESTIMATE TIME** |
| Creating test specification | Test Designer | W hour |
| Perform Test Execution | Tester, Test Administrator | X hour |
| Test Report | Tester | Y hour |
| Test Delivery |  | Z hour |
| Total |  | (W+X+Y+Z) hour |

6. TEST DELIVERABLES

1. Test Plan
2. Requirement Traceability matrix
3. Test scenarios
4. Test Cases