



Test Plan For SMARTSHOP

---Online Shopping Made Easy

Version 1.1 approved

Document Control Information

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V1.0	08/02/2010	Nagaraju	First Draft
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1. Purpose of the Document

The purpose of this document is to detail the Functional-testing tasks for the SMARTSHOP testing project. This document includes the end-to-end Functionality testing activities planned.

Functional testing consists of a series of functional tests of workflows and transactions created and executed to identify and measure the quality of software. The testing will simulate user interaction with the system so that functionality of the system can be evaluated with different User Roles. The testing methodologies used for different types of functional testing of the SmartShop application will be documented with results and observations.

Functional testing involves testing of the system functionality against the specification requirements predefined. As the Test cases are executed and defects found will be reported to developers through authoritative channels. Tests are then repeated to close the open bugs .Functionality Testing will be performed until a predefined success criterion is achieved.

2. Test Objectives

- Validate that the system behavior is same as specified in the Requirement Specification document.
- Assure that the system meets the full requirements, including quality requirements (Functional, Non-functional requirements). The user should find that the project has met or exceeded all of their expectations as detailed in the requirements at end of the project development life cycle.

Identify and expose all issues and associated risks, communicate all known issues to the project team, and ensure that all issues are addressed before release.

3. Scope

The SmartShop *Test Plan* defines the unit, integration, system, regression, and Client Acceptance testing approach. The test scope includes the following:

- Testing of all functional, application performance, security and use cases requirements listed in the *Use Case* document.
- End-to-end testing and testing of interfaces of all systems that interact with the SmartShop.

3.1.In-Scope Areas

3.1.1. Scope of testing

Testing of Functional behavior and Business Logic of the following Modules:

1. User Registration
2. Create the login for Administrator
3. Adding the Product category
4. Adding the product sub category
5. Add Product

6. Purchase the product
7. Credit card Information validation
8. Check Order Details
9. Search Results
10. Recommend Friend
11. View Reports
12. Guest

3. 1.2. Inclusions

1. Creation of Test Cases
2. Creation of Test Data
3. Test Case Execution
4. Reporting Defect Status
5. Unit Testing
6. Regression Testing
7. System Testing

3.2. Out-Of-Scope Areas

3.2.1 Performance Testing

3.2.2 Network Testing

3.3. Exclusions

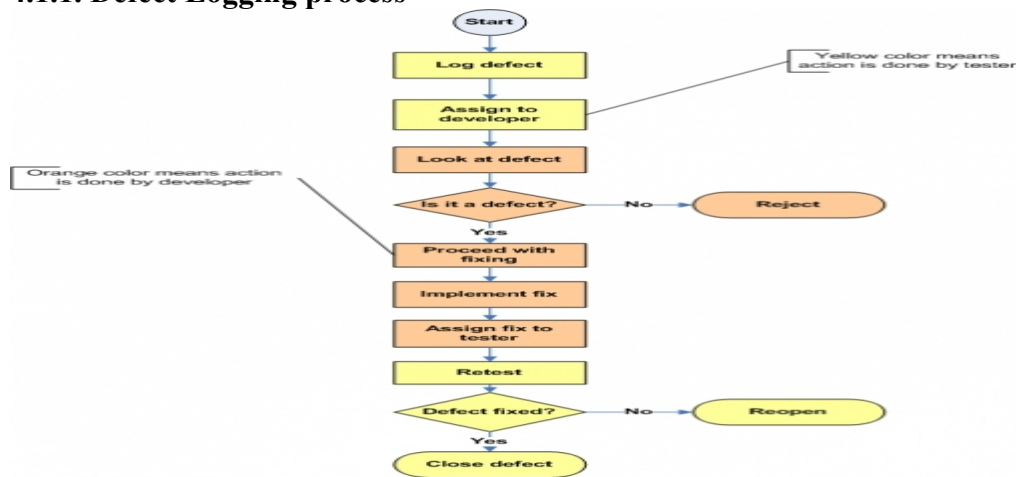
1. Performance Testing
2. Stress Testing
3. Load Testing Scenarios

4. Test Approach

4.1. Test Process

During the system test phase, the development team would build the application and release to the test team for testing. After getting the build, the test team would start testing the application and find defects. The development team would be fixing the defects and would release the application for testing once again. Once the testers get the release, they would retest to check whether identified defects have been closed or not.

4.1.1. Defect Logging process



4.1.2. Test Cycles

Open issues will be consolidated by Testing Team Coordinator and will be forwarded to Development Team Coordinator. The reverse sequence will be followed at the time of regression and confirmation testing.

Assumptions

- Availability of dedicated functional testing environment.
- Availability of valid / relevant data at the time of Test Case execution.
- Availability of stable build at the time of Test Case execution.

4.2. Test Cases

Test case is a description of what is to be tested what data to be inserted what actions to be done to check the actual result against the expected result.

4.2.1. Test Case Types

Test Cases prepared are of 2 types

- Functional Test cases
- Non Functional Test Cases

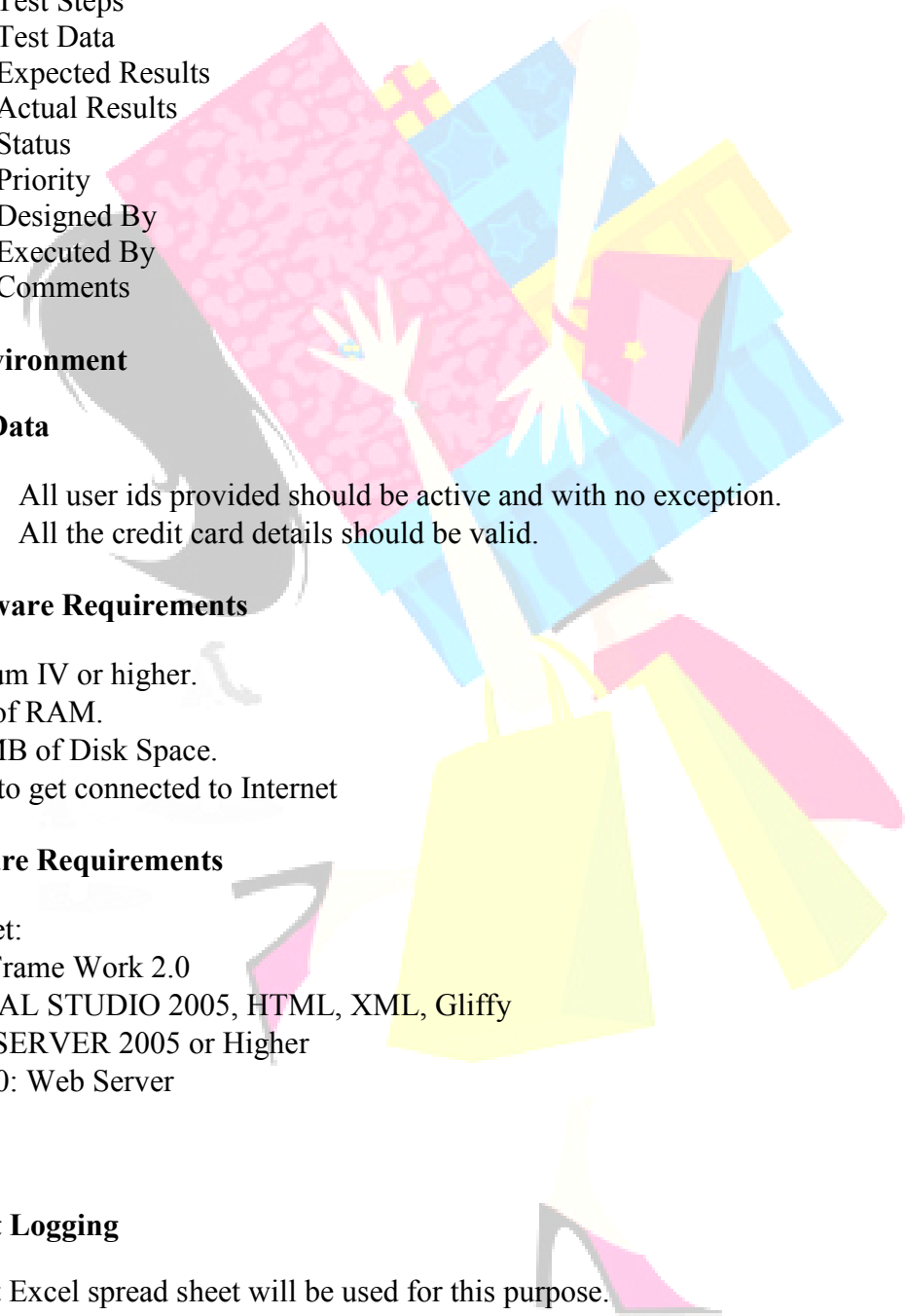
Functional Test cases will validate functional requirements of the application.

Non Functional Test Cases will validate non functional requirements of the application.

4.2.2. Test Case Templates

This section would be talking about the test case templates. Test Case template used, includes

- Test case ID

- 
- Module Name
 - Sub – Module / Page Name
 - Description
 - PreCondition
 - Test Steps
 - Test Data
 - Expected Results
 - Actual Results
 - Status
 - Priority
 - Designed By
 - Executed By
 - Comments

4.3. Test Environment

4.3.1. Test Data

- All user ids provided should be active and with no exception.
- All the credit card details should be valid.

4.3.2. Hardware Requirements

- Pentium IV or higher.
- 1GB of RAM.
- 500 MB of Disk Space.
- LAN to get connected to Internet

4.3.3. Software Requirements

- C#.Net:
- .Net Frame Work 2.0
- VISUAL STUDIO 2005, HTML, XML, Gliffy
- SQL SERVER 2005 or Higher
- IIS 7.0: Web Server

5. Tools

5.1. Defect Logging

Microsoft Excel spread sheet will be used for this purpose.

5.2. Configuration Management

Configuration Management will be done manually.

6. Test Automation

. QTP (Quick Test Professional)

7. Risk

This section would be talking about the risks that may impact quality/schedules and the mitigation and contingency plan for them.

No	Description	Priority
1	Instability of the build may lead to schedule slippage.	Very High
2	All Required data for approved scenarios should be present in the SmartShop system.	High
3	SmartShop Development team should provide with relevant data inputs/support.	Medium

8. Test Schedule

Smart Shop Test Schedule follows

Tasks	Start Date	Duration	1 week	2 week	3 week	End Date
Review the FRS and SRS	7/26/2010	1D	Yes			7/26/2010
Test Preparation and Setup	7/27/2010	4D	yes			7/31/2010
Test Environment setup	7/27/2010	1D	yes			7/27/2010
Preparing Test plan	7/28/2010	2D	Yes			7/29/2010
Organizing Test Cycle	7/29/2010	1D	Yes			7/29/2010
Specifying Test Conditions	7/30/2010	1D	Yes			7/30/2010
Identification Test data	7/30/2010	1D	Yes			7/30/2010
Test Execution & support	8/1/2010	10D		Yes		8/14/2010
Version V1.0	8/1/2010	5D		Yes		8/7/2010
Acceptance 1	8/2/2010	1D		Yes		8/2/2010
Functional 1	8/3/2010	2D				8/4/2010
User Acceptance	8/5/2010	2D				8/6/2010
Version V2.0	8/8/2010	5D			Yes	8/14/2010
Acceptance 2	8/9/2010	1D			Yes	8/9/2010
Functional 2	8/10/2010	2D			Yes	8/10/2010
Regression 1	8/11/2010	2D			Yes	8/13/2010

9. Suspension Criteria and Resumption requirement

9.1 Entry Criteria

SmartShop Team will undertake functional test case execution after:

- All workflows are configured
- All environment related settings are in order.
- All required User-IDs should be generated.
- Development/Support team is ready to restore the database baseline at the end of each iteration of functional test (if needed).

9.2 Exit Criteria

SmartShop Testing Team will stop testing when:

- All Test Cases are executed.
- Confirmation Test Case Set is executed
- Regression Test Case Set is executed
- Final test results have been consolidated as a document / report

10. Release Criteria

SmartShop application can be release for user acceptance testing when:

- There are no open critical or major bugs.
- Test cases scheduled for testing phase have passed.

The rejection criteria are failure of any one/both of the above criteria/(s).