**Test Strategy Document**

**SHELBY Website (Micro E-commerce Project)**

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**Scope And Overview**

Ecommerce facilitates faster purchases, an easier listing of stores and products, reduction of costs, cheaper advertising, and a vastly wider reach — these are just some of its advantages.

Ecommerce testing is a process of validating the functionality of an online shopping application. The objective of ecommerce testing is to ensure that the shopping application is working as expected and that the user experience is positive.

Ecommerce testing can be divided into two main categories as follows-

**Functional Testing:** Functional testing ensures that the shopping application is functioning correctly, while performance testing measures how well the application responds to real-world user traffic.

**Performance Testing:** Many different tools and techniques can be used for eCommerce testing, depending on the specific needs of the project. Some common tools and techniques include load testing, stress testing, functional testing, and usability testing.

testing is crucial because it allows you to ensure that your website is functioning correctly and that customers can easily purchase your products or services.

By testing your website, you can identify any potential issues that could cause problems for customers or cause them to abandon their purchases. Additionally, ecommerce website testing can help improve your website's conversion rate by ensuring that the website is easy to use and navigate.

**Test Approach**

There are many different types of ecommerce automation testing that can be performed to ensure the quality of an online store. Some of the most common types of tests include:

Functionality Testing

Functionality testing is used to test the functionality of an online store. It includes testing the website for its features, payment gateway, search engine optimization, and others. The objective of this testing is to ensure that the website is working properly and providing the expected results.

Admin

Login: Need to verify the username field and password field working and login button and forget password button working according to the user needs.

Admin Dashboard:

1.All selling products details

2.All buyer's details

3.All Seller's details

4.can see whole production amount from sellers in it

5.Most selling Product

6.Shipping/ Tracking

7.Reviews or customer care messages

8.Logout

Seller

Register

Login

Customer Support

Sellers Dashboard: Add, Delete, Update, Number of stocks, Offer

0rders List: 2 status -> PENDING, ORDER SENT

1.ITEMS

3.PAYMENTS: total revenue

4.Profile - Email, phone number, Seller ld.,

5.Logout

Buyer

Register

Login

home page Customer support

search bar catalog

add to cart, rating

Buyers Dashboard:

1.Profile

2.Orders History

3.Order tracker

4Cart

5.Logout

Usability Testing

Usability testing is the process of testing how easy it is for users to purchase products and services online. This includes testing the usability of the website, the shopping cart, the checkout process, and the customer service. The goal of usability testing is to make sure that users can easily and successfully complete their purchases.

Database Testing

Database testing checks the health of the website’s database and will usually be done after the product has been created on the site. This testing will ensure that the data integrity of the site is still intact and that there aren’t any issues with the data.

Performance Testing

Performance ecommerce testing is a process of testing the performance of an online store under various conditions. This type of testing can help identify potential bottlenecks and issues that can impact the user experience. Performance ecommerce testing can be conducted using various tools and techniques, such as load testing, stress testing, and capacity testing.

Security Testing

Security ecommerce Testing is the process of verifying the security of an online store or another ecommerce website. This can include testing for vulnerabilities such as SQL injection and cross-site scripting, as well as verifying the security of the payment process.

Mobile App Testing

Mobile ecommerce testing is a process of testing the functionality of an online store on mobile devices. This includes testing the user interface, payment gateway, shipping, and other features of the site. Mobile ecommerce testing is important to ensure that the site is easy to use and navigate on mobile devices and that all features are working properly.

#### **Test Environment and Testing Tools**

The main important things are application should be deployed in the tester system and required software and hardware what website is required should be specified like the number of users supported in each environment, access roles for each user, software and hardware requirements like operating system, memory, free disk space, number of systems, etc.

Test Plan and Test Data should be designed

As a Tester (Bhavana and Bhavya will be Doing Manual testing) Smoke testing

To ensure the website is stable for testing. From end user prescriptive

For Automation Testing (Bhavana and Bhavya will be responsible for Automation Testing)

Functional, Regression, Integration Testing, System testing using selenium.

Performance Testing using JMeter.

**Release Control**

The idea is to create and release a product that is viable – something usable that can be released within the mandated deadline and meets end-user needs to a substantial extent. Invariably, the software will require changes over time, and end-users are aware of this.

Awareness of the coverage of your test cases also makes it easy to predict post-release issues. Inadequately tested features are almost always guaranteed to cause problems.

90% of the Test Cases should be covered in the Stable every high priority defect should be fixed, and it should not affect the user to use the website.

It is wise to expect that some kind of issue will crop up once the software is being accessed by the end-users. Have a mechanism in place that can address points of malfunction quickly and effectively. Without doing so, issue resolution becomes a long-drawn, effort-intensive process that wastes developers’ time and fosters unsatisfactory user experience.

However, the need for documentation does not end with product release. User feedback needs to be collected so that the product can be improved accordingly. The process of implementing every change needs to be documented so that any flaws in execution can be identified and addressed quickly.

Ensure that the support team is aware of any features that may raise questions. Set them up for success by giving them as much relevant information as possible. This does not simply ensure a successful release cycle but also prevents developers and product managers from dealing with repetitive questions later.

**Risk Analysis**

There are many risks associated with launching an ecommerce website. By performing comprehensive testing prior to launch, you can mitigate many of these risks and ensure a smooth, successful launch. Some of the risks that can be prevented by ecommerce website testing include:

1. Functional Errors: Functional errors can lead to a poor user experience and can cause potential customers to abandon your site. Thorough testing can help identify any potential functional errors so they can be fixed before launch.

2. Security Vulnerabilities: An ecommerce website is a prime target for hackers and cybercriminals. By testing for security vulnerabilities, you can help ensure that your site is secure and protected against attacks.

3. Compatibility Issues: An ecommerce website needs to be compatible with all major browsers and devices. Testing can help identify any potential compatibility issues so they can be fixed before launch.

4. Performance Issues: A slow or unresponsive website will frustrate users and can lead to lost sales. Performance testing can help ensure that your website is fast and responsive.

5. Scalability Issues: An ecommerce website needs to be able to handle a large volume of traffic and transactions. Scalability testing can help ensure that your website can handle traffic and transactions without any issues.

**Review And Approvals**

When all these activities are defined in the test strategy Test plan, they need to be reviewed for sign-off by all entities involved in project management, business team, development team, and system administration (or environment management) team.

A summary of the review changes should be tracked at the beginning of the document along with the approver’s name, date, and comment. Also, it’s a living document meaning this should be continuously reviewed and updated with testing process enhancements.

**Comments on Document:**

**Approved By:**

**Date of Approval:**