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Test Plan for Ecommerce website **www.saucedemo.com**

Objective:

The objective is to test the end-to-end functionality, usability and performance of the ecommerce website and ensure it meets the business and technical requirements.

Scope:

Scope of this test document mainly includes testing cart operations and external payment service

Focus Areas:

- Functional correctness of flows
- End to end testing
- Usability testing
- Acceptance testing
- Performance testing

High Level test Scenarios:

- >Verify the products on the dashboard
 - Verify functionality of adding items to the cart
- >verify functionality of removing items from cart
- >verify checkout process
- >Verify logout functionality

Testing areas and why to test:

- login/logout
- Product catalog
- shopping cart
- checkout process

Why: Above functionalities are critical, ensuring users can browse products, manage their carts and complete purchases

UI- To ensure that the website's interface is user friendly

Why: UI is for providing user experience and minimizing user errors

Performance: Evaluate the website's performance under normal and load condition

why: Ensuring quick load times and stable performance under load is imp. for retaining users and preventing revenue loss

end-end: to ensure end to end features are functioning properly or not

why: navigating through from by selecting the product and by ending the payment flow is essential customer to order the products

Testing tools:

- BrowserStack- UserTesting
- Jmeter- Performance testing

Test Environments:

>The **operating systems** and versions that will be used for testing, such as Windows 10, macOS, or Linux.

>The **browsers and versions** that will be tested, such as Google Chrome, Mozilla Firefox, or Microsoft Edge.

>The **network connectivity and bandwidth** that will be available for testing, such as Wi-Fi, cellular, or wired connections.

>The access permissions and roles of the team members who will be using the test environment, such as testers, developers, or stakeholders.

Name	Env url
QA	qa.123.com
UAT	uat.1234.com
Pre- Production	prepod.12345.com
Production	app.123456.com

Windows 10 – Chrome, Firefox and Edge

- Mac OS – Safari Browser
- Android Mobile OS – Chrome, Samsung browser
- iPhone Mobile OS - Safari browser

Test Strategy:

The first step is to create test scenarios and test cases for the various features in Scope.

While developing test cases, we'll use a number of test design techniques.

- > Equivalence Class Partition
- > Boundary Value Analysis

We also use our expertise in creating Test Cases by applying the below:

- > Error Guessing
- > Exploratory Testing
- > We prioritize the Test Cases

Step 2: Our testing procedure when we receive a request for testing:

- > **First, we'll conduct smoke** testing to see if the all basic login and ordering of the product functionalities are working fine

- > **We reject the build**, if the Smoke Testing fails and will wait for the stable build before performing in depth testing of the product catalog and ordering the product flow functionalities.

>Once we receive a stable build, which passes Smoke Testing, **we perform in depth testing of all the different products in the catalog flows and placing of the order flow using the Test Cases created.**

>We then **report the bugs in the bug tracking tool** and send it to the dev. management the defect found on that day in a status end of the day email.

>We will conduct performance and load testing of all the products in the catalog by placing the order using **Jmeter/load runner**

As part of the Testing, we will perform the below types of Testing:

- > Smoke Testing and Sanity Testing
- > Regression Testing and Retesting
- > Usability Testing, Functionality & UI Testing
- >Non functional testing - performance,load,stress
- > We repeat Test Cycles until we get the quality product.
- >

Deliverables:

- Functional test cases and reports
- Performance test scripts and results
- User acceptance testing report
- Test coverage and defect reports

Team & Schedule Testing:

- >team of 'a1' members needed for 'a2' months testing effort Proposed schedule:
- >Module 1,2,3 will be tested by A,B,C QAs
- DD/MM/YYYY : Functional,End to end,Acceptance testing
- DD/MM/YYYY : Load/performance testing
- DD/MM/YYYY : Compatibility testing, Regression testing.

Risks and potential challenges:

- >Mention challenges in completion of testing if Client mentioned time is date less than **proposed date**
- >Mention the risk if **test environment is not available** in mentioned date
- >Mention potential challenges of testing a as it requires placing of the order flow using **critical test data** like Payment Information,Shipping Information,total price,etc

Test closer and exit Criteria:

- >Testing completes when all test cases execute with no critical defects outstanding.
- >Test Summary Reports delivered

Critical Test Cases

1. Login Functionality

- *Test Case:Verify that users can log in with valid credentials.
- *Priority: High
- *Reason:The login functionality is the gateway for users to access their accounts and use the site. If this fails, users cannot proceed further.
- *Test Case: Verify that users cannot log in with invalid credentials.
- *Priority:High
- *Reason:Ensures the system rejects access, which is crucial for security.

2. Add to Cart

- *Test Case:Verify that users can add items to the cart.
- *Priority:High
- *Reason:Adding products to the cart is essential for the purchase process. If users cannot add items, they cannot buy anything.
- *Test Case:Verify that users can view the correct items in the cart.
- *Priority:High
- *Reason:Ensures that the cart reflects the correct items, which is critical for user trust and successful purchases.

3.Checkout Process

- *Test Case:Verify that users can proceed to checkout and complete a purchase.
- *Priority:High
- *Reason:The checkout process is crucial for revenue generation. Any issues here directly impact sales.

4. Logout Functionality

*Test Case: Verify that users can log out successfully.

*Priority: Medium

*Reason: Logout functionality is essential for security though not as critical as the purchase process.