SAUCEDEMO.COM

TEST PLAN

By

Group A

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TABLE OF CONTENTS

Test Plan

- ## Introduction

The Test Plan is created to lay down the scope, approach, resources, and schedule of testing the shopping cart functionality of saucedemo.com
The plan identifies the items to be tested, the features to be tested, the types of testing to be performed, the personnel responsible for testing, the resources and schedule required to complete testing, and the plan'.

1 TEST STRATEGY

1.1 Scope of Testing

1.1.1 Features to be tested

The shopping cart functionality of the website https://www.saucedemo.com/ will be tested.

Module Name	Applicable Role	Description
Log in	customer	Customer can enter his/her username and password and log into the website
Select Product	customer	Customer can select an item of his/her choice
Add one to Cart	customer	Customer can add a selected item to the cart
Remove item	customer	Customer can remove an item from the cart
Continue shopping	customer	Customer can exit the cart to continue shopping
Add multiple to cart	customer	Customer can add multiple selected items to the cart
Check out	customer	The customer can proceed to check out the items in the cart

1.1.2 Features not to be tested

These features are not be tested because they are not included in the requirement specifications

- User Interfaces
- Hardware Interfaces
- Software Interfaces
- Database logical
- Website Security and Performance

1.2 Test Type

In the coursework regarding the https://www.saucedemo.com/ website, there are 2 types of tests that should be performed

- Unit Testing (Individual items and functionalities are tested)
- Integration Testing (Individual items and functionalities are combined and tested as a group)

1.3 Risk and Issues

Risk	Mitigation
Team members lack the required skills for website testing.	Review the lecture recordings and online resources
Exceeding the deadline	Divide tasks among members to ensure that the team is able to meet the deadlines
The team leader has poor management skills	Plan leadership training for the team leader
A lack of cooperation between team members	Encourage each team member in their task, and inspire them to achieve greater results
Not managing the time effectively	Establish the scope before beginning work and constantly track and measure the progress of the testing

1.4 Test Logistics

1.4.1 Who will test?

Members of group A will be conducting the tests.

1.4.2 When will the test occur?

The testers 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 OBJECTIVES

The test objectives are to verify the functionality of the website Swag Labs, the project should focus on testing the shopping cart functionality such as adding items to the cart, calculating, removing items from the cart...etc. to guarantee all these functions can work normally in an online shopping environment.

3 TEST CRITERIA

3.1 Suspension Criteria

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

3.2 Exit Criteria

Specifies the criteria that denote successful completion of a test phase

-Run rate is mandatory to be 100% unless a clear reason given.

-Pass rate is 80%, achieving the pass rate is mandatory.

4 RESOURCE PLANNING

4.1 System Resource

No.	Resources	Description
1	Test tool	Use a Test tool that can auto-generate the test result to the predefined form and automated test execution
2	Network	Establish a good internet connection
3	Computer	Use computers running Windows 10with Ram 4GB and CPU 2.00GHZ
4	Server	Need a Database server that installs MySQL server a web server that installs Apache Server

4.2 Human Resource

No.	Member	Tasks
1	Test Manager	Manage the whole project Define project directions Acquire appropriate resources
2	Test Developer	Identifying and describing appropriate test techniques/tools/automation architecture Verify and assess the Test Approach Execute the tests, Log results, Report the defects
3	Tester	Implement the test cases, test program
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	QA supervisor	Take in charge of quality assurance Check to confirm whether the testing process is meeting specified requirements

5 TEST ENVIRONMENTS

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A test environment is a server that allows you to run the test cases you have defined. The test environment includes more than just setting up a server to run tests on. A test environment provides accurate feedback about the quality and behavior of the application under test. In other words, a test environment provides you with the necessary setup to run your test cases.

- Create test data and insert it to the website (test bed)
- Set up database
- Configure the environment
- Select the most suitable software, hardware, and operating system -
- Configure the network (Internet setup, LAN, Wi-Fi setup, Private network setup)
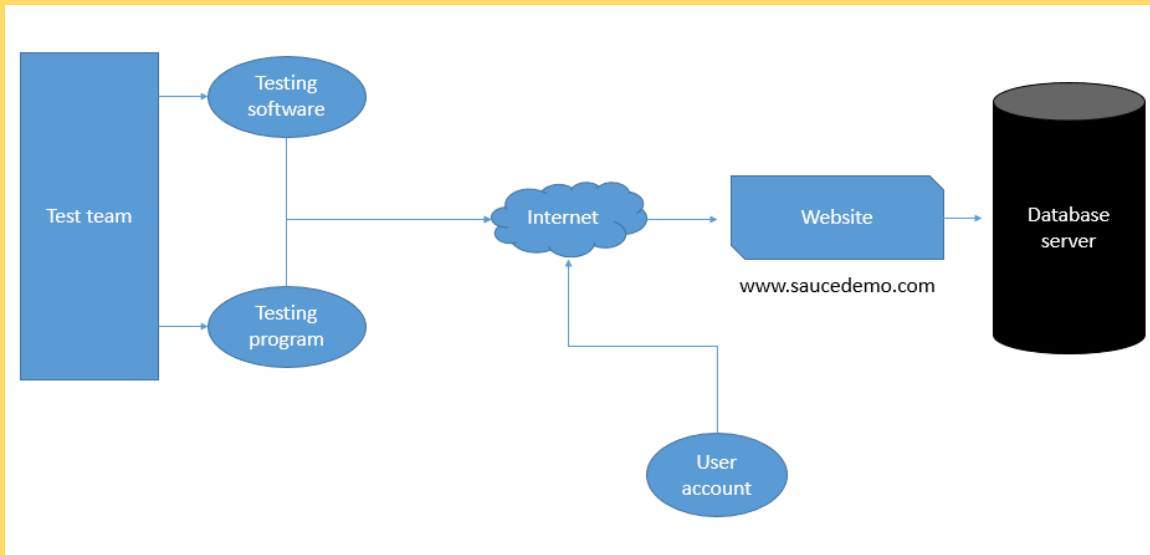
When working with this type of website, security teams try to ensure that the software doesn't have security failures such as Injections and Broken Authentications.

Tests are limited to what can be tested and what not should be tested.

The importance of efficient planning cannot be stressed enough for the success of test environment management in testing. Due to the lack of separate test assets for developing and testing teams, the test environment managers must plan, coordinate, and communicate the schedules for both the teams in advance to avoid conflicts and disagreements stemming from shared usage.

Managing a test environment

- Monitoring of the environments
- Updating test environments – always need to update the environment.
- Fixing the issues of the environment.

6 SCHEDULE & ESTIMATION

6.1 All project task and estimation

Task	Members	Estimated Time
Create the test specification	Test Manager, Tester	9 hours
Perform Test Execution	Test Developer, Test Administrator	3 hours
Test Report	QA Supervisor	2 hours
Test Delivery	All Members	30 minutes
Total		**14-hour 30 min**

6.2 Schedule to complete these tasks

7 TEST DELIVERABLES

Test deliverables are provided as below

7.1 Before the testing phase

- Test plans document.
- Test cases documents
- Test Design specifications.

7.2 During the testing

- Test Tool
- Simulators.
- Test Data
- Test Traceability Matrix
- Error logs and execution logs.

7.3 After the testing cycles is over

- Test Results/reports
- Installation/ Test procedures guidelines