Exam Week-2

Assignment

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Test Strategy Document

For

Amazon E-Commerce Website

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1. Scope

The testing effort will cover all functionalities of amazon e-commerce website including but not limited to user interface, user account, shopping cart, product catalogue, searching functionality etc.

2. Objectives

The main objectives of testing for the amazon e-commerce website are:

- Validate the functionality, usability and performance of the website
- Ensuring positive user experience across multiple devices and browsers
- Verifying the security and integrity of data
- Validate the reliability of the website

3. Testing approach

3.1. Testing levels

- Unit testing: Ensuring individual component and module working properly.
- Integration testing: Checking the interactions between different components.
- System testing: Validating the complete system to ensure that it works as intended.
- Acceptance testing: Involves user to check the system meets business requirements.

3.2. Testing types

- Functional testing
- Security testing
- Performance testing
- Usability testing
- Reliability testing
- Compatibility testing

3.3. Automation

A combination of both manual and automated testing will be performed. Automation will focus on regression testing.

4. Test Environment

4.1. Hardware

- Various devices (Desktop, Laptop etc)
- Different Operating System (Windows, MacOS)

4.2. Software

- Multiple browsers (Chrome, Firefox, Safari etc)
- Database system

5. Testing Tools

- Test Management tools (TestRail, qTest)
- Test Automation tools (Selenium, Appium)
- Performance testing tools (Apache Jmeter, Loadrunner)
- Security testing tools (Burpsuit, Nessus)
- Defect tracking tools (Jira, Bugzilla)
- Usability testing tools (UserTesting, UsabilityHub)

6. Test Deliverables

- Test Plan
- Test Cases
- Test Scripts
- Test Execution Reports
- Defect Reports

7. Risks Analysis

- High traffic during peak hours
- Data security issues
- Compatibility issues with various browsers and devices

8. Sign-off criteria

- When all high priority defects are resolved
- Test coverage meet pre defined criteria

9. Review and Approval

The test strategy document is to be reviewed and approved by the business team, project management team and development team.

Test Plan Document

For

Amazon E-Commerce Website

1. Test Plan Identifier

Project Name: Amazon E-commerce Web Application

2. References

Test strategy document for Amazon E-commerce Website

3. Introduction

The purpose of this Test Plan is to outline the testing approach, scope, schedule, and deliverables for the Amazon e-commerce website.

4. Test Items

Amazon E-commerce website home page features

5. Features to be tested

- User registration and sign-in
- Shopping cart
- Language
- Return carts
- Product search functionality
- Menu bar and all its content
- Today's deals to view best offers
- Customer Service
- Registry
- Gift Cards
- Sell
- New year, new supplies
- Gaming accessories
- New arrivals in toys
- Deals in pc
- Toy's under $25
- Refresh your space

- Fashion trends you like

- Lunar new year

- International top sellers in home improvement

- Best sellers in beauty & personal care

- And many other clickable content in home page

6. Feature not to be tested

- Third party integration

- Add to cart etc

7. Approach

- Combination of manual and automated testing

- Testing levels: System, Acceptance testing

- Testing Types: Functional testing , Usability testing, Performance testing

8. Test Deliverables

- Test cases

- Test scripts

- Defect reports

9. Environment Needs

- Various devices

- Multiple OS

- Multiple browser

10. Approval

The Test Plan document is to be reviewed and approved by the business team, project management team and development team.

Usability Testing Test Cases:

- Does the logo link back to home
- Is it simple and easy to navigate the home page
- Are the image and title of product category matches
- Is it comfortable for the eye
- Is it easy to understand what the page about
- Is the design consistent

Test Strategy vs Test Plan

Test Strategy is a high level document which captures the approach on how we go about testing the product and achieve the goals. **Test plan** document is a document which contains the plan for all the testing activities to be done to deliver a quality product.

Test Strategy is derived from the Business requirement specifications (BRS). **Test Plan** is derived from the Product Description, SRS, or Use Case documents.

Test Strategy is static document which can't be changed. **Test Plan** is a dynamic document which can be changed.

Test Strategy generally provides less details. **Test Plan** is a detailed document.

Test Plan is derived from **Test Strategy.**