

**Test Plan for Amazon**

**Introduction**

Project Name: Amazon Website Functionality Testing.

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Reviewed By: Mr. Kumar.

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Approval: Mr. Kumar.

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**1. Objective**

To ensure the highest quality of Amazon’s user experience by rigorously testing critical functionalities across the website. This includes validating the functionality, usability, and security of key components such as search bars, login forms, and checkout processes. The aim is to deliver a seamless error free experience for users, optimizing performance and accessibility.

**2. Scope**

In Scope: Testing key functionalities including

Search Bar

Login Registration Forms

Checkout Fields Address Payment

Product Review Sections

Filter and Sorting Options

Out of Scope: Non key components such as images, buttons, and overall site layout.

**3. Test Methodology**

Manual Testing For exploratory and usability testing.

Automated Testing For repetitive tests and performance benchmarks.

Security Testing To ensure protection against vulnerabilities like SQL Injection and XSS.

**4. Test Approach**

Functional Testing - Verify that components work as intended such as correct data acceptance and validation rules.

Usability Testing - Assess user experience including ease of use and responsiveness.

Performance Testing - Evaluate how components perform under load.

Security Testing - Ensure components are secure from common vulnerabilities.

Accessibility Testing - Confirm compliance with accessibility standards.

Smoke Testing - Verify that the basic functionalities of the website are working as expected.

Sanity Testing - Ensure that the recent changes or fixes work correctly without affecting other functionalities.

Regression Testing - Confirm that recent changes have not adversely affected existing functionalities.

Integration Testing - Test the interactions between different components and systems to ensure they work together correctly.

**5. Assumptions**

The website is live and accessible for testing.

Test environments will replicate real user conditions.



Test data will be provided for various scenarios.

**6. Risks and Mitigation Plan**

Risk - Team member falls sick or is unable to complete tasks on time.

Mitigation - Cross-train team members to handle multiple tasks and maintain detailed documentation to ensure continuity of work.

Risk - Changes in website functionality may affect test cases.

Mitigation - Regular updates and reviews of the test plan.

Risk - Inconsistent behaviour across different browsers or devices.

Mitigation - Extensive cross browser and cross device testing.

Risk - Delays in test environment setup.

Mitigation - Prepare a backup plan for alternative testing setups.

**7. Backup and Mitigation Plan**

Backup Plan - Use alternate testing tools or environments if the primary setup fails.

Mitigation Plan - Regularly review and update the test strategy to address any emerging issues.

**8. Roles and Responsibilities**

Test Manager (Shiva Sir) – Oversee test execution, manage resources, and ensure alignment with project goals.

Test Lead (Sushant Mishra)- Coordinate test activities, manage test plans, and handle escalations.

Test Engineers (Punit, Prachi, Astha, Anik and Kunal) - Execute test cases, report bugs, and validate fixes.

**9. Scheduling**

Test Planning - 1 Day.

Test Design and Development - 2 Days.



Test Execution – 1 Day.

Defect Reporting and Retesting - 1 Day.

Test Closure – 1 Day.

**10. Defect Tracking**

Use JIRA to log, track, and manage defects.

Each defect will be categorized by severity and assigned to the relevant team member.

Regular status meetings to review and prioritize defect resolution.

**11. Test Environment**

Browsers Chrome, Firefox, Edge, Safari.

Devices Desktops, Smartphones iOS, Android, Tablets.

Network Simulate various network conditions such as high latency.

**12. Entry and Exit Criteria**

**Entry Criteria -**

Test environment setup is complete.

Test data is prepared and available.

Test cases are reviewed and approved.

Exit Criteria

All planned test cases are executed.

Critical defects are resolved or documented with mitigation plans.

Test summary report is reviewed and approved.

**13. Deliverables**

Test Plan Document.

Test Scenarios and Test Cases.



Defect Reports.

Test Summary Report

**14. Automation Testing**

Tools Selenium WebDriver, TestNG.

Scope Automate repetitive tests especially for regression and performance.

Scripts Develop scripts for high priority test cases such as search functionality and login forms.

**15. Templates**

Test Case Template Includes fields for test ID, description, preconditions, steps, expected results, and actual results.

Defect Report Template Includes fields for defect ID, description, severity, status, steps to reproduce, and resolution.

**Conclusion-**

This test plan outlines a comprehensive strategy for ensuring the functionality, usability, and security of Amazon’s website. By systematically executing this plan, we aim to deliver a robust and user-friendly online experience. The structured approach detailed herein will guide the testing process, facilitate the identification and resolution of issues, and ensure that all critical aspects of the website meet the highest standards of quality. The successful execution of this plan will contribute to the continued success and reliability of the Amazon website.