**\_TEST PLAN IEEE FORMAT**

**1.Test Plan id- Amazon\_testing\_037**

1. **Introduction:**

The purpose of this project report is to provide a comprehensive overview of the testing activities conducted for an e-commerce website. Amazon, like any technology company, places significant emphasis on testing to ensure the quality and reliability of its products and services. Testing at Amazon spans various aspects, including software testing, hardware testing, and user experience testing.

The testing activities were carried out to ensure that the website functions as expected,

meets the requirements, and delivers a high-quality user experience. The report includes

details on the testing objectives, scope, testing approach, test environment, test

activities, test results, and recommendations for improvement.

To Verify the functionality of the website, including product browsing, product search, shopping cart, checkout process, payment processing, and order confirmation.

1. **Software Testing:** Ensures that the software applications, websites, and other digital products developed by Amazon meet the required standards for functionality, security, and performance. This involves unit testing, integration testing, system testing, and more.
2. **Hardware Testing:** Amazon manufactures and sells hardware devices like Kindle, Echo, and others. Rigorous testing is conducted to ensure the durability, performance, and safety of these devices.
3. **User Experience Testing:** Amazon focuses on providing a seamless and positive user experience across its platforms. Testing is conducted to evaluate the usability, accessibility, and overall satisfaction of users interacting with Amazon's products and services.

**3.Test Items:**

1.User Registration

2.User Login

3.Product browsing and searching

4.Shopping cart functionality

1. Order confirmation
2. Payment processing
3. **Features to be tested:**
   1. User Registration:
      * 1. Add new users with with valid details.
        2. Only a single unique email has to be used.
        3. Add all the mandate fields for successful registration.
        4. A captcha for security purposes.
   2. User Login
4. To able to enter the website with valid credentials.
5. Providing a layer of security for the users.
6. Users can reset their password in case they forget it.
7. Appropriate error messages are displayed for incorrect login attempts.
   1. Product browsing and searching:
8. To search for products based on various criteria.
9. Accurate results generation against search items.
10. Users can filter and sort search results based on different parameters.
    1. Shopping cart functionality
11. Users can add products to their cart and view the cart contents.
12. Users can update the quantity or remove products from the cart.
    1. Order confirmation
       * 1. Order confirmation after successfully choosing payment option.
    2. Payment processing

1.Choose a payment method during the checkout process.

**2.**Valid payments option only to be accepted.

**3.**Generation of proper Billing address associated with the selected payment method.

4.Confirm that the system securely communicates with the payment gateway.

5.System will display a confirmation page with details of the transaction, including order summary, shipping details, and estimated delivery dates.

**4.Features not to be tested:** NA

**5**. **Features Pass/Fail Criteria:**

* 1. User Login

• Verify that users can login with valid credentials (email and password).

• Verify that users cannot login with invalid or incorrect credentials.

• Verify that users can reset their password in case they forget it.

• Verify that appropriate error messages are displayed for incorrect login attempts.

**6. Entry Criteria:**

a) Test Design:

* + Team formation, Responsibilities, schedule, requirements, test case template
  + Training on domain, on automation tools

b) Test Execution

Readiness of test tab

Readiness of AUT

Requirements

Test case Documents

Test data

Defect Report Template

**7) Exit Criteria:**

All possible test cases executed

Maximum defect fixed, final regression performed successfully

Confidence on test process

Time limitations

Budget limitations

**8) Suspension criteria: Nil**

**9) Roles and Responsibilities:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.NO** | **NAME** | **ROLE** | **RESPONSIBILITIES** | **REMARKS** |
| 1 | ARNAB BARUA | Test Lead | Test planning, guidance, Monitoring and test control |  |
| 2 | ARNAB BARUA | Sr. Tester | Test data collection, Generating test scenarios |  |
| 3 | ARNAB BARUA | Tester | Test case documentation, test execution, defect reporting and tracking for admin module |  |
| 4 | ARNAB BARUA | Tester | Test case documentation, test execution, defect reporting and tracking for Personal banking module |  |
| 5 | ARNAB BARUA | Tester | Test case documentation, test execution, defect reporting and tracking for Corporate banking module |  |

**10) Schedule:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SNO** | **TASK** | **DAYS** | **DURATION** | **REMARKS** |
| 1 | Understanding and Analyzing requirements | 2 | 8th Jan to 9th Jan |  |
| 2 | Review meeting | 1 | 10th Jan |  |
| 3 | Generating Test scenarios | 2 | 11th Jan to 12ndJan |  |
| 4 | Reviews | 2 | 13th Jan to 14th Jan |  |
| 5 | Test case Documentation | 1 | 15th Jan |  |
| 6 | Reviews | 1 | 16th Jan |  |
| 7 | Test data collection | 1 | 17th Jan |  |
| 8 | Reviews | 1 | 17th Jan |  |
| 9 | Verifying Test Environment Setup | 1 | 18th Jan |  |
| 10 | Create Test Batches | 1 | 19th Jan |  |
| 11 | Sanity Testing | 1 | 19th Jan |  |
| 12 | Comprehensive testing | 1 | 20th Jan |  |
| 13 | Sanity Testing | 1 | 20th Jan |  |
| 14 | Selecting Test Cases | 1 | 20th Jan |  |
| 15 | Regressing Testing | 2 | 21th Jan to 22th Jan |  |
| 16 | Sanity Testing | 1 | 23th Jan |  |
| 17 | Selecting Test Cases | 1 | 24th Jan |  |
| 18 | Regression Testing cycle -2 | 2 | 25th Jan to 26th Jan |  |
| 19 | . |  |  |  |
| . | . |  |  |  |
| . | . |  |  |  |
| 28 | Final Regression | 1 | 26th Jan |  |
| 29 | Evaluating Exit Criteria | 1 | 27th Jan |  |
| 30 | Collecting all artifacts | 1 | 27th Jan |  |
| 31 | Test Summary Report | 1 | 28th Jan |  |

Note: Regression Testing depends on Application and strength of Development team.

**11)Training: 12)Training:**

* Training program on Banking Domain
* Test Automation Training Using katalon studio

**12) Risks and Mitigations: NA**

**13) Test Environment/ Lab:**

Application Type: Web Application, Internet and public

*Server Side*

* Version 120.0.6099.225 (Official Build) (64-bit)
* UNIX server
* MS Exchange server a) webserver b) EDP c) Data storage
* Bugzilla tool
* Support all frontend frameworks
* MS Office
* HP UFT Tool, etc…
* Browser IE 7.0

*Client side:*

* Windows 11
* Support all frontend frameworks: ReactJS, AngularJS
* Ms-Office
* Cross-browser compatibility: Chrome, Firefox, Safari, Edge

*AUT Environment:*

* REST
* SOAP
* GraphQl
* SQL server 2005 for database server

**14) Test Deliverables:**

* Test Plan
* Review reports
* Test Scenario docs
* Test Case Docs
* Test data
* Opened, closed defect report
* Test summary report

**15) Approvals:**

|  |  |  |  |
| --- | --- | --- | --- |
| **SNO** | **TASK/S** | **AUTHOR/ RULE** | **DATE & SIGNATURE** |
| 1 | Test plan documentation | Mamtha (Test Lead) |  |
| 2 | Review | Hari Prasad (Quality analyst) |  |
| 3 | Approval | Vinod Rao (Project Manager) |  |

**16) Glossary**

AUT- Application Under Test

PIN- Project initiation note

SRS- Software Requirement Specification