**TEST PLAN DOCUMENT FOR AMAZON APPLICATION**

1. **Test Plan Id:** TC\_Amazon\_Home\_001
2. **Introduction:**

* **Project overview:** The Amazon Software Project aims to provide a same less online shopping experience for users testing is crucial to ensure the reliability and functionality of key features.
* **Testing overview**: The testing phase will focus on automated testing using Katalon studios to validate essential functionalities like Login, Logout, Add to Cart, My Orders, Search item and Wishlist item.

1. **Test Items:**

**List of Modules/Functions/Services/Features:**

* User Authentication (Login)
* User Authentication (Logout)
* Product Search (Search Item)
* Cart Management (Add to Cart)
* Wishlist Management Item (Wishlist Item)
* Order History (My Orders)

1. **References:**

* Requirements
* Project Plan
* Test Scenarios
* Use cases (if available)
* High level Design Documents
* Low Level Design Documents
* Process Guide line document
* Prototypes

1. **Features to be tested:**

* **User Authentication:**
* Verify successful login with valid credentials.
* Validate unsuccessful login attempts with invalid credentials.
* Ensure proper logout functionality.
* Test password recovery/reset functionality.
* **Cart Management:**
* Confirm items are added to the cart successfully.
* Validate the ability to update the quantity of items in the cart.
* Verify the ability to remove items from the cart.
* Test the persistence of the cart across user sessions.
* **Order History:**
* Verify the display of previous orders in the order history.
* Check if the order details are accurate.
* Test the ability to track the shipping status of an order.
* Confirm the presence of an invoice for each order.
* **Product Search:**
* Confirm that the search functionality returns relevant results.
* Validate advanced search options (e.g., filters by category, price range).
* Test the responsiveness of the search feature under various network conditions.
* Check for the presence of sponsored results in the search.
* **Wishlist Management:**
* Verify the ability to add items to the Wishlist.
* Confirm successful removal of items from the Wishlist.
* Test the ability to share the Wishlist with others.
* Verify that the Wishlist is persistent across user sessions.
* **Logout:**
* Confirm the user is successfully logged out.
* Test for security measures such as auto-logout due to inactivity.
* Verify that user data is not accessible after logout.

**6. Features not to be tested:**

* None Identified for this testing phase.

**7. Entry Criteria:**

* **Test Environment Readiness:**
* Ensure that the test environment is set up with the required hardware and software components.
* Verify that Katalon Studios is installed and configured for automated testing.
* **Test Data Availability:**
* Confirm that necessary test data, including valid and invalid credentials, sample products, and order history data, is available for testing.
* **Test Cases Prepared:**
* Ensure that test cases for all identified features have been developed and reviewed.
* **Automation Scripts Ready:**
* Verify that automation scripts for the identified features are developed and validated.
* **Test Team Training:**
* Confirm that the test team has undergone training on Katalon Studios for effective test automation.
* **Approval of Test Plan**
* Obtain approval from the project manager and relevant stakeholders for the test plan.

**8) Exit Criteria:**

* Test Execution Complete:
* All test cases, both manual and automated, have been executed.
* Defect Closure:
* All identified defects have been addressed, retested, and closed.
* Test Log Completion:
* The test log is complete, documenting all test activities, including executed tests, results, and any issues encountered.
* Test Report Generated:
* A comprehensive test report summarizing the testing phase is generated, including pass/fail statistics, defect metrics, and any recommendations.
* Automation Scripts Updated:
* Automation scripts are updated to reflect any changes in the application or testing requirements.
* Documentation Updated:
* Test documentation, including test cases and procedures, is updated to align with any changes in the application.
* Feedback Collected:
* Collect feedback from the testing team regarding the testing process, tools, and any challenges faced.
* Approval of Test Closure:
* Obtain approval from the project manager and relevant stakeholders for the closure of the testing phase.

**9) Suspension criteria:**

* Testing will be suspended if there are server downtimes affecting the testing environment.

**10) Roles and Responsibilities:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.NO** | **NAME** | **ROLE** | **RESPONSIBILITIES** | **REMARKS** |
| 1 | K Siva Kumar | Test Lead | Test planning, guidance, Monitoring and test control |  |
| 2 | K Siva Kumar | Sr. Tester | Test data collection, Generating test scenarios |  |
| 3 | K Siva Kumar | Tester | Test case documentation, test execution, defect reporting and tracking amazon application. |  |
| 4 | K Siva Kumar | Tester | Test case documentation, test execution, defect reporting and tracking for amazon application. |  |

**11) Schedule:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.NO** | **TASK** | **DAYS** | **DURATION** | **REMARKS** |
| 1 | Understanding and Analyzing requirements | 2 | 6January and 8 January |  |
| 2 | Review meeting | 1 | 8 January |  |
| 3 | Generating Test scenarios | 2 | 9 January and 10 January |  |
| 4 | Reviews | 1 | 10 January |  |
| 5 | Test case Documentation | 2 | 11 January and 12 January |  |
| 6 | Reviews | 1 | 12 January |  |
| 7 | Test data collection | 1 | 13 January |  |
| 8 | Reviews | 1 | 14 January |  |
| 9 | Verifying Test Environment Setup | 1 | 14 January |  |
| 10 | Create Test Batches | 1 | 15 January |  |
| 11 | Sanity Testing | 1 | 16 January |  |
| 12 | Comprehensive testing | 1 | 17 January |  |
| 13 | Sanity Testing | 1 | 18 January |  |
| 14 | Selecting Test Cases | 1 | 19 January |  |
| 15 | Regressing Testing | 2 | 20 January and 21 January |  |
| 16 | Sanity Testing | 1 | 22 January |  |
| 17 | Selecting Test Cases | 1 | 23 January |  |
| 18 | Regression Testing cycle -2 | 2 | 24 January and 25 January |  |
| 19 | . |  |  |  |
| . | . |  |  |  |
| . | . |  |  |  |
| 27 | Final Regression | 2 | 26 January and 27 January |  |
| 28 | Evaluating Exit Criteria | 2 | 27 January and 28 January |  |
| 29 | Collecting all artifacts | 1 | 29 January |  |
| 30 | Test Summary Report | 2 | 30 January and 31 January |  |

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

**12)Training:**

* Training program on Software Automation Testing
* Test Automation Training Using Katalon Studios

**13) Risks and Mitigations:**

* Risk: Unavailability of required test data
* Mitigation: Coordinate with development to ensure the availability of necessary test data

**14) Test Environment:**

1. **Hardware:**
   * Desktop or laptop computers for test engineers.

1. **Software:**

* **Operating Systems:**
  + Test Engineer Machines: Windows 10, MacOS, Linux (based on team preferences)
* **Test Automation Tools:**
  + Katalon Studios: Installed on each test engineer's machine for creating and running automation scripts.
* **Browsers:**
  + Chrome, Firefox, Safari: Ensure compatibility testing across major browsers.
* **Version Control:**
  + Git for version control, allowing collaboration and tracking changes in test scripts.
* **Continuous Integration/Continuous Deployment (CI/CD) Tool:**
  + Jenkins: For automated build and deployment of the application.

**15) Test Deliverables:**

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

**16) Approvals:**

|  |  |  |  |
| --- | --- | --- | --- |
| **SNO** | **TASK/S** | **AUTHOR/ RULE** | **DATE & SIGNATURE** |
| 1 | Test plan documentation | K Siva Kumar (Test Lead) |  |
| 2 | Review | K Siva Kumar (Quality analyst) |  |
| 3 | Approval | K Siva Kumar (Project Manager) |  |

**17) Glossary:**

AUT- Application Under Test

RTM- Requirements Traceability Matrix

PIN- Project Initiation Note

SRS- Software Requirement Specification