**TEST PLAN IEEE FORMAT:**

1. **Test Plan ID:** Unique No. or Id or Name of the test plan
2. **Introduction:** About the Project and testing
3. **Test Items:** Names of Modules/ Functions/ Services/ Features
4. **Features to Be Tested:** Responsible Modules for the Test Design
5. **Features Not to Be Tested:** Which ones to test and which ones not to test (e.g. Features of previous version of the Software)
6. **Approach:** List of testing techniques to be applied on the modules (prepared by QA/PM)
7. **Features Pass/Fail Criteria:** When above features are pass and when they fail
8. **Suspension Criteria:** Possible abnormal situations arose during testing of above features. Without recovering from these situations, you are not able to conduct testing. (Technical problems with respect to project)
9. **Test Environment:** Required hardware and software including testing tools to conduct testing
10. **Test Deliverables:** Required test documents to be prepared during testing (Test Cases, Test Procedures, Test Log, Test Report)
11. **Test Tasks:** necessary tasks to do before starting of every project testing
12. **Staff and Training Needs:** The names of test engineers and required training sessions
13. **Responsibilities:** Work allocation in terms of test engineers Vs Modules
14. **Schedule:** Dates and Times
15. **Risks and Mitigations:** Analyze risks and possible solution to overcome them
16. **Approvals:** Signatures of Test Plan Author and PM/QA

A Test Plan for Amazon Website Testing using Katalon Studio:

1. **Test Plan Id:** AMA-KTS-TP-001
2. **Introduction:**

This test plan outlines the testing approach for the Amazon website using Katalon Studio. The objective is to ensure the functionality, reliability, and performance of key features.

1. **Test Items:**

- Homepage

- Search functionality

- Product details page

- Shopping cart

- User authentication

- Payment processing

- Order history

1. **References:**

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

**5.Features to be tested:** - Search and display of products

- Adding products to the shopping cart

- User login and registration

- Checkout process

- Payment processing

**6. Features not to be tested:**  
 - Third-party integrations not directly related to core website functionality

- Features specific to Amazon mobile applications

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

- Pass: All critical functionalities work as expected, and test cases pass

- Fail: Any deviation from expected behavior or test cases failure

**8. Approach:**

* Automated testing using Katalon Studio
* Functional testing for core features
* Performance testing for key functionalities
* Regression testing for each release

**9. 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
* Etc….

**10) Exit Criteria:**

* + All possible test cases executed
  + Maximum defect fixed, final regression performed successfully
  + Confidence on test process
  + Time limitations
  + Budget limitations

**11) Suspension criteria:**

- Testing will be suspended if there are critical technical issues affecting the testing environment or if the website undergoes unexpected maintenance.

**12) Test Environment/ Lab:**

- Hardware: Standard PCs with internet access

- Software: Katalon Studio, Web browsers (Chrome, Firefox, Safari), Operating Systems (Windows, MacOS)

- Testing Tools: Selenium WebDriver for browser automation

**13) Test Deliverables:**

- Test Cases

- Test Procedures

- Test Log

- Test Report

**14) Test Tasks:**

- Test data preparation

- Environment setup

- Test case design

- Test script development

- Execution of test cases

- Defect reporting and tracking

**15) Roles and Resposibilities:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.NO** | **NAME** | **ROLE** | **RESPONSIBILITIES** | **REMARKS** |
| 1 | Sairaghunandan  Pulibandla | Test Lead | Test planning, guidance, Monitoring and test control |  |
| 2 | Sairaghunandan  Pulibandla | Tester | Test data collection, Generating test scenarios |  |
| 3 | Sairaghunandan  Pulibandla | Tester | Test case documentation, test execution, defect reporting and tracking for admin module |  |
| 4 | Sairaghunandan  Pulibandla | Tester | Test case documentation, test execution, defect reporting and tracking for Personal banking module |  |
| 5 | Sairaghunandan  Pulibandla | Tester | Test case documentation, test execution, defect reporting and tracking for Corporate banking module |  |
| 6 | Sairaghunandan  Pulibandla | Test Manager | Oversees the entire testing  process, Manages and  mentors the testing team,  and Provides testing status  reports to stakeholders |  |
| 7 | Sairaghunandan  Pulibandla | Security Tester | Conducts security assessments  To identify vulnerabilities, Performs penetration testing on applications and networks, and Recommends security measures to address vulnerabilities |  |

**16) Schedule:**

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

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

**17) Staff and Training Needs:**

- Test Engineer: Sairaghunandan Pulibandla

- Training sessions & project on Katalon Studio for all test engineers.

**18) Risks and Mitigations**

- Risk: Frequent changes to the website structure

- Mitigation: Regular updates to test scripts and close collaboration with development teams.

**19) Approvals:**

|  |  |  |  |
| --- | --- | --- | --- |
| **SNO** | **TASK/S** | **AUTHOR/ RULE** | **DATE & SIGNATURE** |
| 1 | Test plan documentation | Sairaghunandan Pulibandla |  |
| 2 | Review | Smart Internz Team |  |
| 3 | Approval | Smart Bridge Team |  |

**20) Glossary**

* AUT- Application Under Test
* PIN- Project initiation note
* SRS- Software Requirement Specification

This test plan is a living document and subject to updates as the project progresses.