TEST PLAN for Amazon Software Automation Testing

1. **Test Plan ID:** AMAUTO-TP-001

2. Introduction:

- The Amazon Software Automation Testing aims to ensure the reliability and functionality of key features within the Amazon software, focusing on critical user interactions such as login, shopping cart management, and the checkout process.

3. Test Items:

- Amazon Login
- Amazon Shopping Cart
- Amazon Checkout

4. Features to Be Tested:

- Amazon Login
  - Login with valid credentials
  - Login with invalid credentials
  - Remember Me functionality.
  - Forgot Password functionality.
- Amazon Shopping Cart
  - Add items to the shopping cart.
  - Remove items from the shopping cart.
  - Update quantity of items in the shopping cart
  - Shopping cart total calculation
- Amazon Checkout
  - Proceed to checkout from the shopping cart.
  - Enter shipping address information.
  - Payment method selection
  - Place order functionality.

5. Features Not to Be Tested:

- Any features from previous software versions that are no longer relevant or have been deprecated.

6. Approach:

- Utilize a combination of manual and automated testing techniques.
- Automation tools: Selenium for web automation.
- Develop comprehensive test scenarios to cover positive, negative, and boundary cases for each identified test item.

7. Features Pass/Fail Criteria:

- Amazon Login
  - Pass Criteria: Successful login with valid credentials; Remember Me and Forgot Password functionalities work as expected.
  - Fail Criteria: Unable to login with valid credentials; Remember Me or Forgot Password functionalities fail.
- Amazon Shopping Cart
  - Pass Criteria: Items can be successfully added, removed, and updated in the shopping cart; accurate total calculation.
  - Fail Criteria: Issues with adding, removing, or updating items; incorrect total calculation.
- Amazon Checkout
  - Pass Criteria: Smooth transition from shopping cart to checkout; accurate entry of shipping address and successful payment.
  - Fail Criteria: Errors during transition; issues with entering shipping information or payment failure.

8. Suspension Criteria:

- Identify abnormal situations that may interrupt testing, such as critical bugs specific to Login, Shopping Cart, or Checkout, and outline recovery procedures.

9. Test Environment:

- Hardware: Standard PCs
- Software: Web browsers, Selenium
- Network: Stable internet connection for real-time testing

10. Test Deliverables:

- Test Cases for Amazon Login, Shopping Cart, and Checkout
- Test Procedures for Amazon Login, Shopping Cart, and Checkout

- Test Log for Amazon Login, Shopping Cart, and Checkout
- Test Report for Amazon Login, Shopping Cart, and Checkout

11. Test Tasks:

- Define and prioritize detailed test scenarios for Login, Shopping Cart, and Checkout.
- Develop comprehensive test cases and procedures for each test item.
- Set up the testing environment.
- Conduct thorough test execution for Login, Shopping Cart, and Checkout.
- Document and analyse detailed test results for each test item.

12. Staff and Training Needs:

- List of test engineers involved in testing Login, Shopping Cart, and Checkout, and any required training sessions on automation tools specific to these functionalities.

13. Responsibilities:

- Clearly define the allocation of work among test engineers and teams for Amazon Login, Shopping Cart, and Checkout.

14. 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	

15. Risks and Mitigations:

- Identify potential risks such as unexpected changes in requirements or delays in testing, specifically for Login, Shopping Cart, and Checkout, and propose mitigation strategies.

16. Approvals:

SNO	TASK/S	AUTHOR/ RULE	DATE & SIGNATURE
1	Test plan documentation	Test Lead	
2	Review	Quality analyst	
3	Approval	Project Manager	

17) Glossary

- **AUT (Application Under Test):**

— The Application Under Test is the Amazon e-commerce platform, encompassing the entire system. The focus of testing includes, but is not limited to, the Amazon Login, Shopping Cart, and Checkout functionalities. The AUT represents the target system that will be subjected to automated testing using Katlon.

— This definition is crucial for the testing team to understand the boundaries and components of the system that will be evaluated during the testing process.
— The Amazon e-commerce platform, in its entirety, is the subject of scrutiny to ensure the reliability and functionality of key features.

- # PIN (Project Initiation Note):

— **Project Title:**
  - Amazon Software Automation Testing with Katlon
— **Project Overview:**
  - The project aims to automate the testing of key functionalities within the Amazon software, specifically focusing on the Amazon Login, Shopping Cart, and Checkout processes. Automation will be performed using Katlon.
— **Objectives:**
  - The primary objectives of this project are:
    - To ensure the reliability and functionality of Amazon Login, Shopping Cart, and Checkout.
    - To implement test automation using Katlon for efficient and effective testing.
    - To identify and mitigate potential risks associated with the automation testing process.
— **Scope:**
  - The project will cover the automation testing of the following functionalities:
    - Amazon Login with Katlon.
    - Shopping Cart management with Katlon.
    - Checkout process automation using Katlon.
— **Stakeholders:**
  - The key stakeholders include:
    - Project Manager
    - Quality Assurance Team
    - Development Team
    - Product Owners
    - Testing Team
— **Deliverables:**
  - The project will deliver the following key items:
    - Detailed Software Requirement Specification (SRS) document.
    - Comprehensive test cases for Amazon Login, Shopping Cart, and Checkout using Katlon.
    - Automation scripts implemented in Katlon.
    - Test execution reports.
— **Timeline:**
  - The project is planned for completion within [Specify Timeframe]. Milestones include:
    - SRS completion and approval.
    - Test case development.
    - Automation script implementation.

        - Test execution and reporting.
- **Resources:**
    - The project will require the following resources:
        - Test engineers with expertise in Katlon.
        - Development support for script integration.
- **Dependencies:**
    - Dependencies include access to the Amazon software environment, Katlon setup, and collaboration with development teams.
- **Risks:**
    - Identified risks include potential delays in SRS approval, script implementation challenges, and unexpected changes in Amazon software.
- **Budget:**
    - The budget for this project includes resources, training, and any additional tools or technologies required for successful implementation.
- **Approvals:**
    - This PIN requires approval from the Project Manager, Quality Assurance Team, and relevant stakeholders.

Signatures:

[Project Manager]

Date: _____

[Quality Assurance Lead]

Date: _____

[Stakeholder Representative]

Date: _____

This Project Initiation Note provides a foundation for the Amazon Software Automation Testing project, outlining its goals, scope, stakeholders, deliverables, timeline, resources, dependencies, risks, and budget. Stakeholder signatures indicate formal approval to proceed with the project.

- # SRS (Software Requirement Specification):

— **Introduction:**
  - Provide a brief overview of the document, its purpose, and the system being tested.
  - Specify that this document focuses on the requirements for Amazon software automation testing using Katlon.

— **System Overview:**
  - Briefly describe the Amazon software, its key features, and the testing requirements.

— **Scope:**
  - Clearly define the scope of the testing, specifying the functionalities to be covered (Amazon Login, Checkout, and Shopping Cart).

— **Functional Requirements:**
  - **Amazon Login:**
    - Specify the requirements for automated testing of Amazon Login using Katlon.
    - Include details on expected behaviors, input validation, and security measures.
    - Describe the integration of Katlon for automated testing.
  - **Amazon Shopping Cart:**
    - Specify the requirements for automated testing of the Shopping Cart using Katlon.
    - Include details on adding, removing, and updating items, as well as total calculation.
    - Describe the integration of Katlon for automated testing.
  - **Amazon Checkout:**
    - Specify the requirements for automated testing of the Checkout process using Katlon.
    - Include details on the transition from the shopping cart, shipping address entry, payment method selection, and order placement.
    - Describe the integration of Katlon for automated testing.

— **Non-functional Requirements:**
  - Specify any non-functional requirements, such as performance, reliability, and security, relevant to the automation testing process.

— **Test Cases:**

    - Provide detailed test cases for each functionality (Amazon Login, Shopping Cart, Checkout) using Katlon.
    - Include positive and negative scenarios, boundary tests, and any specific conditions to be tested.
- **Dependencies:**
    - Identify any external tools, libraries, or systems that the automation testing relies on, including the integration with Katlon.
- **Assumptions and Constraints:**
    - Outline any assumptions made during the testing process and identify any constraints that may impact testing.
- **Risks:**
    - List potential risks associated with the automation testing process and propose mitigation strategies.
- **Tools and Technologies:**
    - Specify the tools and technologies involved in the automation testing process, with a focus on the use of Katlon.
- **Sign-off:**
    - Include a section for stakeholders to review and sign off on the SRS document.