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**Introduction**

Amazon.in is leading ecommerce platform. This project is to perform QA testing of their ecommerce application.

**Scope of this document**

The scope of this document is to provide an insight into overall testing strategy and plan for amazon.in web application. The project is to test amazon.in to ensure the quality of application functionality

**Business & System Overview**

Amazon online is leading ecommerce service provider. This project is to perform QA testing of their online shopping application. The amazon.in web application helps prospective customers to plan their online shopping with ease, perform product search and other payment management requirements .Amazon.in provide various ecommerce and purchase management functionalities for its customers. Amazon.in’s online product booking and purchase flow helps users to search for products, apply filters on search and book a product based on their specific requirements.

The major functionalities of Product flow include

1. User Registration & Login
2. Product Management [Product Listing]
3. Search and Filter for a Product [ based on Product, Price, brand ,ratings]
4. Product Category & Navigation [Sub categories]
5. Select a Product
6. Add to Wish List & Add to Cart
7. Place an Order & Payment
8. Order tracking and Status
9. Message & Email communication of Orders
10. Reviews & Ratings Management

**Test Approach**

**Test Items**

**Features to be tested**

The features to be tested include the product flow in amazon.in application. The modules/functional flow to be tested are

1. User Registration & Login
2. Search and Filter for a Product [ based on Product, Price, brand, ratings]
3. Select a Product
4. Add to Wish List & Add to Cart
5. Place an Order
6. Order tracking and Status

**Features not to be tested**

Any other functionalities/ business flows other than Product flow will not be tested

**Test Strategy**

The strategy / approach to test booking flow in amazon.in application is to execute test in different stages. Test execution will include following levels

Smoke Testing

Smoke testing is the initial testing activity done whenever a new application build is available for testing. It covers very basic scenarios, including page navigation and most basic functional cases. Some testing/Build verification testing is done to ensure stability of new build, its stable enough to proceed with an elaborate testing effort.100% pass in some test is mandatory to proceed with further levels of testing

**Component Testing**

In this phase each application module is tested independently to ensure functionality is working as expected.

**Integration Testing**

In integration testing independently tested application modules are integrated and tested . This is mainly done to ensure data transfer and communication between integrated modules are working as expected. Independent modules are added to application incrementally and testing is performed

**System Testing**

This phase involves end to end testing of application integrating all modules . E2E scenarios and business flow use cases are tested and verified in this phase

**Sprint-wise Scope**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sprint 0** | | | | **Module/Functionality** |
| Task | Responsibility | Manual | Automation |  |
| Test Strategy & Plan Preparation & Signoff | Test Manger/Lead | NA | NA | NA |
| **Sprint 1** | | | |  |
| Testcase Design | Testers | Yes | No | 1.User Registration & Login  2.Search and Filter for a Product |
| Automation Test Script Design | Automation Testers | No | Yes | 1.Login  2.Search and Filter for a Product  **Out of Scope** – User registration |
| Review (Peer) | Testers & Lead | Yes | Yes | 1.User Registration & Login  2.Search and Filter for a Product |
| Test Execution | Testers | Yes | No | 1.User Registration & Login  2.Search and Filter for a Product |
| Defect Reporting & Tracking | Testers | Yes | No | 1.User Registration & Login  2.Search and Filter for a Product |
| **Sprint 2** | | | |  |
| Testcase Design | Testers | Yes | No | 1.Select a Product  2.Add to Wish List & Add to Cart |
| Automation Test Script Design | Automation Testers | No | Yes(Sprint 2 Items) | 1.Select a Product  2.Add to Wish List & Add to Cart |
| Review(Peer) | Testers & Lead | Yes | Yes | 1.Select a Product  2.Add to Wish List & Add to Cart |
| Test Execution | Testers | Yes | Yes (Sprint 1 items) | **Manual**  1.Select a Product  2.Add to Wish List & Add to Cart  **Automation**  1.Login  2.Search and Filter for a Product |
| Defect Reporting & Tracking | Testers | Yes | Yes | **Manual**  1.Select a Product  2.Add to Wish List & Add to Cart  **Automation**  1.Login  2.Search and Filter for a Product |
| **Sprint 3** | | | | |
| Testcase Design | Testers | Yes | No | 1.Place an Order  2.Order tracking and Status |
| Automation Test Script Design | Automation Testers | No | Yes(Sprint 3 Items) | 1.Place an Order  2.Order tracking and Status |
| Review(Peer) | Testers & Lead | Yes | Yes | 1.Place an Order  2.Order tracking and Status |
| Test Execution | Testers | Yes | Yes (Sprint 2 items) | **Manual**  1.Place an Order  2.Order tracking and Status  **Automation**  1.Select a Product  2.Add to Wish List & Add to Cart |
| Defect Reporting & Tracking | Testers | Yes | Yes | **Manual**  1.Place an Order  2.Order tracking and Status  **Automation**  1.Select a Product  2.Add to Wish List & Add to Cart |
| **Sprint 4** | | | | |
| Test Case Updation/Modification | Testers | Yes | No | 1.All Components  2.Regression suite |
| Test Execution  (E2E & System Testing) | Testers | Yes | Yes(Sprint 3 items) | **Manual**  All Components  **Automation**  1.Place an Order  2.Order tracking and Status |
| Defect Retesting & Tracking | Testers | Yes | Yes | All Components |
| Test Execution (Regression) | Testers | Yes | Yes | All Components |
| Test Closure | Test Lead | Yes | Yes | All Components |

**Test Environment**

Hardware & Software Requirements

* AWS Server
* JIRA for Qmetry – Test cases & Defect Reporting & Tracking
* Java Development Environment
* Selenium Library
* Git

**Test Deliverables**

The test deliverables include following

* Test Plan Document
* Test Case Document
* Automation Test Scripts
* Test Reports
* Test Closure Reports

**Conclusion**

This document details the plan and strategy for testing product flow in amazon.in application, to be shared with stake holders.