Project Name : Spree Ecommerce

**Test Strategy Document**

**Revision History**

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1. Introduction

Spree is an ecommerce Application when in the customers can do online shopping by selecting different categories. User can search the product based on brands, category by applying filter. User can add the product to cart and delete from the cart. Customer can register to this Application

So that they can view products added to card and history of shopping.

1. Objectives of Test Strategy

The objective of test strategy is to provide best quality product by applying best industry practices using appropriate tools in each phase of Software Test Life cycle.

1. Scope and Limitations

Scope: Manual and Automation Testing for each of the sprint backlogs.

Limitations: Automation Testing of thirty party tools cannot be carried out.

1. Test Approach

Manual Testing:

* Testing of the new feature, payment and integration of payment.Testing of Spree eCommerce framework to check if the framework is still stable after adding new feature.
* Testing of the new feature Shipment and integration of Shipment feature with framework. Testing of Spree eCommerce framework to check if the framework is still stable after adding Shipment feature.
* Testing of framework for Omni-Channels i.e for both Desktop and Mobiles. Both in Desktop and Mobiles, the quality of the product should be good.

Automation Testing:

Automation testing will be carried out. Development of scripts needs to carried out in order to test the existing bugs. Scripts will be developed

For existing features and new features using manual test cases as reference. These scripts will be automated for every newly added feature. Application will be tested rigorously to enhance spree eCommerce quality.

Testing will be done at all levels. Functionality testing of payment feature, shipment feature, mobile and desktop. Integration testing of the newly added features, UI testing, API testing ,System Testing,Performance Testing ,Load Testing and Security Testing, Cross Browser testing, Cross platform Testing.

Automation testing tool such as selenium web Driver will be used as part of automation testing. Scripts will be written and automated to identify the existing bugs in Spree eCommerce and also for newly added features.

5. Test Environment

* Data base
* backup of test data and restore strategy

6. Testing Tools

* Selenium Automation tool for testing UI and API testing tools such as postman to check http response and request.
* Git repository is maintained for scripts developed by automation team
* Jenkins and Maven used for build and Integration
* TestNG for generating and emailing reports
* JIRA for bug tracking and management.

6 .Release Controls

Release will be made with appropriate version history that will make sure test execution for all modification in that release.

7. Risk Analysis

Deadline of the testing might change based on the complexity of feature.

8. Review and Approvals

* All these activities are reviewed and sign off by the business team, project management, development team, etc.

9. Deliverables

Manual test cases

Automation scripts and reports generated from Automation