JASPER BOOK STORE

TEST PLAN DOCUMENT

Prepared for:

Hussein Al Osman, Associate Director and Assistant Professor School of Electrical Engineering and Computer Science (EECS) University of Ottawa

Prepared by:

Team Jasper (Varun Hanabe Muralidhara , Yan Zhang , Yash Mittal , Sheela Parthanarayana, Sehajpreet Taneja)

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**1.0 Introduction**

This test plan document describes the strategies, workflows and methodologies used in planning, organizing and executing the tests.

**2.0 Scope**

**2.1 In Scope**

The unit testing and the integration test are included in this test approach

**๏ Testing of all functional requirements**

**๏** T**esting of services - Product Catalog & Order Process Web Services**

**2.2 Objectives**

**2.2.2 Primary Objective**

The main objective is to meet the intended quality and functional requirements of the web application.

**2.2.1 Other Objectives**

This includes identifying and exposing all issues and associated risks, communicating all known issues to the team and ensure that all issues are addressed properly.

**2.3 Test Plan Assumptions**

**๏ For testing, the team has executed junits and integration testing(Behaviour driven development).**

**3.0 Test Methodology**

**3.1 Overview**

The purpose of the Test Plan is to achieve the following:

**๏ Testing strategy is defined for the web application project.**

**๏ Design specifications are as per the requirements.**

**3.1.1 Unit Testing**

JUnit is a Regression Testing Framework used by developers to implement unit testing in Java , and accelerate programming speed and increases the quality of code

**3.1.2 Integration Testing**

Upon completion of unit testing, the units or modules are to be integrated which gives raise to integration testing. The purpose of integration testing is to verify the functional, performance, and reliability between the modules that are integrated.

Selenium Framework is used to perform the integration testing, thereby covering end to end flow of the application.

**3.1.3 System Testing**

System Testing is a black box testing technique performed to evaluate the complete system the system's compliance against specified requirements. In System testing, the functionalities of the system are tested from an end-to-end perspective.

**3.1.4 Component Testing**

BDD behavior driven development is an approach that uses conversions around concrete example to discover, describe and formalize the behavior of the system. BDD is an excellent approach to adopt it to design a web service.

**4.0 Test Deliverables**

**4.1 Deliverables Description**

The documents that are delivered as the proof of testing:

**๏ Test Plan**

**๏ Test cases (in excel sheet)**

**๏ Test cases with results (in excel sheet)**

**๏ Junit(reports in XML)**

**๏ BDD reports in HTML(reports.html)**

**๏ Front End Automation Utility (along with Video)**

**5.0 Environment Needs**

**5.1 Hardware**

The testing of this web application has been done on multiple systems running Windows, MacOS & Linux, which met the expected functionalities.

**5.2 Software**

In addition to the application and any other customer specified software, the following list of software should be considered a minimum:

**๏ Apache Tomcat server 8.5.20**

**๏ Java 1.8.121**

**๏ Selenium**

**๏ Eclipse IDE**

**๏ Serenity BDD**

**๏ MySQL Workbenchxs**

**6.0 References**

<https://www.tutorialspoint.com>

https://dzone.com/articles/using-bdd-web-services