**Test Plan:**

The goal of this document is to develop a test plan for the Online Book Store design system. This document defines all the procedures and activities required to prepare for testing of the functionalities of the system which are specified in Vision document. The objectives of the test plan are to define the activities to perform testing, define the test deliverables documents and to identify the various risks and contingencies involved in testing.

**Features to be tested**

The following list describes the features to be tested:

**USER:**

* Registration
* Login
* Add To Cart
* Edit Cart

**ADMIN:**

* Create and Delete book from Category
* Create and Delete a Category
* Manage Orders
* Manage Members

# **Approach**

This section describes the overall approach of the testing which ensures that the each feature and the combination of the features are adequately tested. The major tasks that are used are

**Unit testing**

Unit testing is a method of testing that verifies the individual units of source code are working properly. The goal of unit testing is to isolate each part of the program and show that the individual parts are correct. The NUnit a testing tool for C# will be used for unit testing.

**Load testing**

Load testing is the process of creating demand on a system or device and measuring its response. It generally refers to the practice of modeling the expected usage of a software program by simulating multiple users accessing the program concurrently. As such, this testing is most relevant for multi-user systems; often one built using a client/server model, such as web servers

**System Testing**

Once the entire system has been built then it has to be tested against the Software Requirement Specification and System Specification to check if it delivers the features required. System testing can involve a number of specialist types of test to see if all the functional and non-functional requirements have been met.

**Performance Testing**

The system should meet the performance requirements as mentioned in the Vision document. The performance will be evaluated based on the response time of the GUI and the database commands. Using JMETER tool performance testing will be done.

**Manual Testing**

Manual Testing will be done to ensure the correctness of various parts of the code using test cases generated by the tester.