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**Online Book Store**

**Test Plan Document**

**Version II**

Prepared by

**TEAM ALLIANCE**

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# 1. Introduction

## 1.1. Statement of Purpose

This document describes the test approach for the software development project for the online book store. This document sets the scope of various tests to be conducted, the activities to be completed, the general resources required and the methods and processes to be used to test before the product is delivered to the customer.

## 1.2. Overview of the Product

Book Information Management module provides a quick search function according to titles or the author's information of books and also provides a classification search of all books. In addition, the system will show all the details of the book, after the customer selects a book. Shopping Cart Management module maintains each customer's shopping cart in the online bookstore. This means recording all the selected books information to the customer’s shopping cart. Member Management module authenticates customer registration information. Currently goods are delivered to the customer’s door or by mail. Therefore, we need to collect the customer's real name, address and contact information. Order Management, according to the books’ information in a customer's shopping cart, and the customer’s preferences on the method of shipping and payment, as well as customer's information, the system creates an order. Books Management module authenticates administrators which can go into the backend page and modify the database of books. An admin can add books; delete books, post book information, and other functions. Comment Management module implements functions of allowing customers to place comments on books and allows administrators to delete comments. Announcement of Information, the administrator can post, modify and delete announcements on the bookstore site.

## 1.3. Test strategies

A test strategy is an outline that describes the testing approach of the software development life cycle. Testing strategies describe which types of testing are to be performed. As we are following waterfall model approach, we are mainly focusing on 2 testing strategies. They are unit testing and system testing.

# 2. Scope and objectives

As mentioned in the requirements document, the online bookstore performs all the required operations according to the customer requirements. Outlined below are the test types that will be performed on the software. The entire test plans and conditions will be developed from the requirements document and project design document.

## 2.1. Unit testing

For every module in our project software implementation process is reviewed. Every module is subjected to undergo unit testing where white box testing, also known as “basic path testing” is done. Unit testing is conducted by the developer for each module. If necessary the testing schedule will correspond to the completion to a system module. The objective of these reviews is to ensure correctness and to test the functional integrity within each individual module. Issues to consider are matching of parameters and their data types, arguments, relative attributes.

## 2.2. System testing

This test intends to prove that the functionality delivered by the team is as specified by the team in requirements document. It also assesses the quality of the software and ensures that the software will successfully work according to the intended requirements by the customer. The testing strategy for the validation of the system as a whole will also utilize the “black box” method. All possible user input must be examined and any deficiencies addressed.

# 3. Test schedule

The Testing phase should have a proper working schedule. The following is the schedule that has been applied in our project. Unit testing has been assigned 6 days, 2 days each for both regression testing and the system testing.

# 4. Resources

## 4.1. Human

The Alliance team consists of four individuals. They are:

Jiaxing Liu

Kancharla Kiran Reddy

Christopher james

Azharuddin H Mohammad

Christopher James and Azharuddin will coordinate and work as the development team and are mostly responsible for the unit testing.

Jiaxing and Kiran Reddy will coordinate for the regression testing and system testing phases of the project.

Formal reviews and also other test phases are to be coordinated by all the team members.

## 4.2. Hardware

The testing phase will require at least three PCs with the following specifications:

* 32 bit architecture
* Atleast 2.4 GHz Processor speed
* Atleast 256 MB RAM

# 5. Test cases

Table1. Test Cases for Login

|  |  |  |  |
| --- | --- | --- | --- |
| Test case ID | Step(Descriptions) | Expected Results | Actual Results |
| 001 | Enter Email as “275529599@qq.com”,  Enter password as “1234567”,  And press login button | Login successfully | Login successful – redirect to homepage |
| 002 | Enter Email as **“”**,  Enter password as **“”**,  And press login button | Error Message: Email or password can’t be empty. | Display error message, redirect to login page |
| 003 | Enter Email as **“”**,  Enter password as “1234567”,  And press login button | Error Message: Email or password can’t be empty. | Display error message, redirect to login page |
| 004 | Enter Email as “275529599@qq.com”,  Enter password as **“”**,  And press login button | Error Message: Email or password can’t be empty. | Display error message, redirect to login page |
| 005 | Enter Email as “**275529599qq.com**”,  Enter password as “123456789”,  And press login button | Error Message: Email is invalid. | Display error message, redirect to login page. |
| 006 | Enter Email as “275529599@qq.com”,  Enter password as “**275529599@qq.com**”,  And press login button | Error Message: Password is invalid. | Display error message, redirect to login page. |
| 007 | Enter Email as “275529599@qq.com”,  Enter password as “**@#$ %^&**”,  And press login button | Error Message: Password is invalid. | Display error message, redirect to login page. |
| 008 | Enter Email as “275529599@qq.com”,  Enter password as “**123123123123123123123123123123**”,  And press login button | Error Message: Password is invalid. | Display error message, redirect to login page. |

Table2. Test cases for Register page

|  |  |  |  |
| --- | --- | --- | --- |
| Test case ID | Step(Descriptions) | Expected Results | Actual Results |
| 001 | Enter Username as”jiajiabodouluo”  Enter Email as “275529599@qq.com”,  Enter password as “1234567”,  Choose gender as”male”,  Enter address as “Taft blvd”,  Enter Phone number as “8159090000”,  Enter answer as”black”,  And press submit button | Login successfully | Register successful, redirect to login page. |
| 002 | Enter Username as””,  Enter Email as “275529599@qq.com”,  Enter password as “1234567”,  Choose gender as”male”,  Enter address as “Taft blvd”,  Enter Phone number as “8159090000”,  Enter answer as”black”,  And press submit button | Error Message: Username can’t be empty. | Display error message, redirect to register page. |
| 003 | Enter Username as”**jiajiabodouluo01234567890123456789012345678901234567890**”  Enter Email as “275529599@qq.com”,  Enter password as “1234567”,  Choose gender as”male”,  Enter address as “Taft blvd”,  Enter Phone number as “8159090000”,  Enter answer as”black”,  And press submit button | Error Message: Username must be between 1~32 characters. | Display error message, redirect to register page. |
| 004 | Enter Username as”jiajiabodouluo”  Enter Email as **“”**,  Enter password as “1234567”,  Choose gender as”male”,  Enter address as “Taft blvd”,  Enter Phone number as “8159090000”,  Enter answer as”black”,  And press submit button | Error Message: Email can’t be empty. | Display error message, redirect to register page. |
| 005 | Enter Username as”jiajiabodouluo”  Enter Email as “275529599@qq.com”,  Enter password as “**0123456789012345678901234567890123456789**”,  Choose gender as”male”,  Enter address as “Taft blvd”,  Enter Phone number as “8159090000”,  Enter answer as”black”,  And press submit button | Error Message: Password must be between 6~32 characters. | Display error message, redirect to register page. |
| 006 | Enter Username as”jiajiabodouluo”  Enter Email as “275529599@qq.com”,  Enter password as “**1234 567**”,  Choose gender as”male”,  Enter address as “Taft blvd”,  Enter Phone number as “8159090000”,  Enter answer as”black”,  And press submit button | Accept password | Accept password, redirect to login page. |

Table3. Test cases for forgot username or password page

|  |  |  |  |
| --- | --- | --- | --- |
| Test case ID | Step(Descriptions) | Expected Results | Actual Results |
| 001 | Enter Username as”jiajiabodouluo”  Enter Email as “275529599@qq.com”,  Enter Phone number as “8159090000”,  Enter answer as”black”,  And press submit button | The system will send the old password form Email to user | Feature Not Implemented |
| 002 | Enter Username as**””**  Enter Email as “275529599@qq.com”,  Enter Phone number as “8159090000”,  Enter answer as”black”,  And press submit button | The system will send the old password form Email to user | Feature Not Implemented |
| 003 | Enter Username as”jiajiabodouluo”  Enter Email as **“”**,  Enter Phone number as “8159090000”,  Enter answer as”black”,  And press submit button | The system will send the old password form Email to user. | Feature Not Implemented |
| 004 | Enter Username as”jiajiabodouluo”  Enter Email as “275529599@qq.com”,  Enter Phone number as “”,  Enter answer as”black”,  And press submit button | Error Message: Phone number can’t be empty. | Feature Not Implemented |
| 005 | Enter Username as”jiajiabodouluo”  Enter Email as “275529599@qq.com”,  Enter Phone number as “8159090000”,  Enter answer as ”**white**”,  And press submit button | Error Message: Answer is invalid. | Feature Not Implemented |
| 006 | Enter Username as”jiajiabodouluo”  Enter Email as “275529599@qq.com”,  Enter Phone number as “8150000000”,  Enter answer as”black”,  And press submit button | Error Message:Username and phone don’t match. | Feature Not Implemented |
| 007 | Enter Username as**””,**  Enter Email as **“”**,  Enter Phone number as “8159090000”,  Enter answer as “black”, press submit button. | Error Message:Username or email both can’t not be empty. | Feature Not Implemented |

Table4. Test cases for forgot add to cart and checking out

|  |  |  |  |
| --- | --- | --- | --- |
| Test case ID | Step(Descriptions) | Expected Results | Actual Results |
| 001 | From the home page, select any book.  From the book’s page, add item to cart. | The selected book will be in the cart. | Book was in cart |
| 002 | From the home screen select any book.  From the book’s page, add item to cart.  Return to home screen. | Item should still be in cart | Book was still in cart |
| 003 | From the home screen select any book.  From the book’s page, add item to cart.  Return to home screen and select another book.  Add different book to cart | Both books should be in cart | Both books are still in cart |
| 004 | From the home page, select any book.  From the book’s page, add item to cart.  Proceed to checkout.  Complete checkout process | Display order summary. | Order summary displayed correctly |
| 005 | From the home page, select any book.  From the book’s page, add item to cart.  Proceed to checkout.  Complete checkout process (Omit credit card info) | Error Message: Valid credit card information required | Print error, refuse progression to the next step. |
| 006 | From the home page select any book.  From the book’s page add item to cart then log out.  Log in. | Item should still be in cart | Item is not in cart. Session is not stored on server. |

Table1. Test Cases for Manager Login

|  |  |  |  |
| --- | --- | --- | --- |
| Test case ID | Step(Descriptions) | Expected Results | Actual Results |
| 001 | Enter Email as “admin@bookstore”,  Enter password as “admin”,  And press login button | Login successfully | Login successful – redirect to homepage |
| 002 | Enter Email as **“”**,  Enter password as **“”**,  And press login button | Error Message: Email or password can’t be empty. | Display error message, redirect to login page |
| 003 | Enter Email as **“”**,  Enter password as “1234567”,  And press login button | Error Message: Email or password can’t be empty. | Display error message, redirect to login page |
| 004 | Enter Email as “admin@bookstore”,  Enter password as **“”**,  And press login button | Error Message: Email or password can’t be empty. | Display error message, redirect to login page |
| 005 | Enter Email as “**275529599qq.com**”,  Enter password as “123456789”,  And press login button | Error Message: Email is invalid. | Display error message, redirect to login page. |
| 006 | Enter Email as “admin@bookstore”,  Enter password as “**275529599@qq.com**”,  And press login button | Error Message: Password is invalid. | Display error message, redirect to login page. |
| 007 | Enter Email as “admin@bookstore”,  Enter password as “**@#$ %^&**”,  And press login button | Error Message: Password is invalid. | Display error message, redirect to login page. |
| 008 | Enter Email as “admin@bookstore”,  Enter password as “**123123123123123123123123123123**”,  And press login button | Error Message: Password is invalid. | Display error message, redirect to login page. |

# 6. References

[1]. Sommerville I.,“Software Engineering 9th edition”.

[2]. Pressman Roger S., “Software Engineering – A Practitioner’s Approach 7th edition”.

[3]. Si Alhir S., “UML in a nutshell”.

[4]. Fowler M., “UML Distilled –third edition”.