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Testing Report

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1   Introduction

1.1 Document overview

This document is the software test report of the phase three testing of the Bookstore Order System project. The document contains the final results of the test which were performed during phase four testing.

1.2 Abbreviations and Glossary

1.2.1 Abbreviations

API:

ERD:

HTTP:

IMAP4:

ISBN:

IT:

MAX:

MIN:

POP3:

QC:

SQL:

UI:

1.2.2 Glossary

API: In computer programming, an **application programming interface** (**API**) is a set of subroutine definitions, protocols, and tools for building application software. In general terms, it is a set of clearly defined methods of communication between various software components. A good API makes it easier to develop a computer program by providing all the building blocks, which are then put together by the programmer. (en.wikipedia.org)

ERD: An **entity relationship diagram** (**ERD**) shows the relationships of entity sets stored in a database. An entity in this context is a component of data. In

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HTTP: HTTP means HyperText Transfer Protocol. **HTTP** is the underlying protocol used by the World Wide Web and this protocol defines how messages are formatted and transmitted, and what actions Web servers and browsers should take in response to various commands. (webopedia.com)

IMAP4: Internet Message Access Protocol, version 4 is a more complex protocol, which provides more extensive functionality than is available through POP3. With **IMAP4**, clients can not only retrieve messages from a server, but they can also manipulate the remote message folders (or mailboxes) in which the messages are stored. (msdn.microsoft.com)

ISBN: The International Standard Book Number (**ISBN**) is a unique numeric commercial book identifier. An ISBN is assigned to each edition and variation (except reprintings) of a book. For example, an e-book, a paperback and a hardcover edition of the same book would each have a different ISBN. (en.wikipedia.org)

IT: Information Technology

MAX: Maximum

MIN: Minimum

POP3: POP3 is a protocol for receiving email by downloading it to your computer from a mailbox on the server of an Internet service provider. (google dictionary)

QC: an aggregate of activities (such as design analysis and inspection for defects) designed to ensure adequate quality especially in manufactured products

SQL: **SQL** (pronounced "see-que-el") stands for Structured Query Language. SQL is used to communicate with a database. According to ANSI (American National Standards Institute), it is the standard language for relational database management systems. (sqlcourse.com)

UI: In information technology, the user interface (**UI**) is everything designed into an information device with which a person may interact. This can include display screens, keyboards, a mouse and the appearance of a desktop. It is also the way through which a user interacts with an application or a website.

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1.3 Conventions

- Testing for the application was performed across browsers, platforms and devices. Internet Explorer, Microsoft Edge, Google Chrome, Mozilla Firefox, and Safari. Operating Systems include Windows 7 and Windows 10.

- For best practices all test were performed on personal and public devices to observer for inconsistencies in browser performance and interface functionality.

- Test were primarily performed randomly by the QC Specialist to prevent result persuasion to maintain test result integrity.

- All test were performed in phases. Starting with the Home page, Instructor's actions, input, and output, Administrator's actions, input, output, and Bookstore Staff actions, status updates and, inventory search.

- **Phase 1**: Bookstore Order System tested for cross-browser response and functionality.

- **Phase 2**: Bookstore Order System tested for performance and functionality across platforms and Operating Systems.

- **Phase 3**: Bookstore Order System tested for data input and output for consistency and validity.

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2 Overview of Tests Results

2.1 Test Log

Testing was performed over the course of two weeks using all currently popular web-browsers. Bookstore Order System version 1.0 was tested on PCs, laptops, mobile devices, both IOS and Android, on both personal and public devices. The testing included all previously successful and failed test found in the project test plan. Test were mainly performed by:

- Daniel Greer

- Roderick Oliver

2.2 Rationale for decision

After performing all test, the decision is defined according to the following rules:

- **Passed:** The test sheet is set to passed when all application functionality and data input and output is compliant to expected results.

- **Failed:** The test sheet is set to failed when all application functionality, data input and output fail to meet expected results.

- **Partial Pass**: The test sheet is set to partial pass when all but a minimal part of the application is not within compliance with expected results.

- **Tested**: The test sheet is set to tested when all test steps are performed.

- **Not Tested**: The test sheet is set to "Not Tested" when no test has been performed

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2.3 Overall assessment of tests

- All test with interface passed, graphical user interface is optimized to work across all popular browsers and platforms.

- All test passed but application is yet to be tested on presentation computer.

Statistics of the test results

- **100%** of test performed **Passed.**

Total Number of bugs and Enhancements.

- **108 Total number**

- **6 Number of Major**

- **20 Number or Minor**

- **82 Number of enhancements**

2.4 Impact of test environment.

All expected conditions for the production environment were resolved in the test environment before migrating changes over to prod. The test environment help to minimize any need to make excessive changes the production environment.

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3 Detail Tests Results

For each executed test, this document contains:

- **Test Identification**
- **Test Title**
- **Test decision**

Application URL	http://wip.r2d2.tech
Domain/ Server	Host Gator
Database	PhpMyAdmin

Testing Tools and Environment

3.1.1

Browsers	Home Page	Instructor's Interface	Administra-tor's Interface	Bookstore Staff Interface
Tested/Not Tested	Tested	Tested	Tested	Tested
Google Chrome	Passed	Passed	Passed	Passed
Internet Explorer	Passed	Passed	Passed	Passed
Mozilla Firefox	Passed	Passed	Passed	Passed
Safari	Passed	Passed	Passed	Passed
Microsoft Edge	Passed	Passed	Passed	Passed

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3.1.2 Interface response and functionality cross OS and devices

Browsers and site functionality tested

Browsers	Home Page	Instructor's Interface	Administrator's Interface	Bookstore Staff Interface
Functionality	Textbook Carousel & Department course search	Textbook order form and status view	User creation, modify, and reporting	Order processing and status update and search
Tested/Not Tested	Tested	Tested	Tested	Tested
OS/Device Win7/10 PC/Laptop/ Android/ Apple IOS	Tested	Tested	Tested	Tested
Google Chrome	Passed	Passed	Passed	Passed
Internet Explorer	Passed	Passed	Passed	Passed
Mozilla Firefox	Passed	Passed	Passed	Passed
Safari	Passed	Passed	Passed	Passed
Microsoft Edge	Passed	Passed	Passed	Passed

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3.1.3 Data Input and Output Accuracy

Browsers and site functionality tested

Browsers	Home Page	Instructor's Interface	Administra-tor's Interface	Bookstore Staff Inter-face
Functionality	Textbook Course Match display	Order Input, Placement, and view	User Input, Modification, Search, and Reporting	Order Processing, Seller Information, Status Update, and Search
Tested/Not Tested	Tested	Tested	Tested	Tested
Google Chrome	Passed	Passed	Passed	Passed
Internet Explorer	Passed	Passed	Passed	Passed
Mozilla Firefox	Passed	Passed	Passed	Passed
Safari	Passed	Passed	Passed	Passed
Microsoft Edge	Passed	Passed	Passed	Passed

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All application functionality and interface appearance and performance test are be performed are to be marked as tested and signed off by the parties below.

	Tested/Not Tested	Tested/Not Tested	Tested/Not Tested	Tested/Not Tested
Browsers	Home Page	Instructor's Interface	Administrator's Interface	Bookstore Staff Interface
Functionality	Tested	Tested	Tested	Tested
Google Chrome	Tested	Tested	Tested	Tested
Internet Explorer	Tested	Tested	Tested	Tested
Mozilla Firefox	Tested	Tested	Tested	Tested
Safari	Tested	Tested	Tested	Tested
Microsoft Edge	Tested	Tested	Tested	Tested

Daniel Greer
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