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**<Company Name>**

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**<A Bookstore Online>  
<Iteration/ Master> Test Plan**

**Version <1.0>**

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## Revision History

Date	Version	Description	Author
<07/01/24>	<1.0>	Initial Test plan	Nguyen Le Tan Thanh

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## **<Iteration/ Master> Test Plan**

### **1. Introduction**

#### **1.1 Purpose**

The test plan for Project Book Online serves as a vital guide for effectively evaluating the functionality, performance, and usability of the online book platform. It outlines the entire testing process, ensuring a systematic and efficient approach to identifying and addressing potential issues before launch.

- **Objectives of the Test Plan:** The primary objectives of this test plan document are to outline the testing strategy, scope, resources, and schedule for the Online Bookstore Project. It serves as a comprehensive guide for the testing team, providing a structured approach to ensure the quality and reliability of the developed software.
- **What is this document about:** This document outlines the testing approach and activities that will be undertaken to verify and validate the functionalities of the Online Bookstore. It covers the entire testing life cycle, from the identification of testable requirements to the execution of test cases, and it provides a basis for assessing the quality of the system under test.
- **Who Should Use This Document:**
  - **Testers:** The test plan serves as a roadmap for testers, guiding them on executing different testing phases, techniques, and procedures.
  - **Developers:** By outlining expected outcomes and potential issues, the document helps developers understand testing criteria and rectify identified bugs efficiently.
  - **Project Managers:** The plan provides project managers with a clear overview of the testing scope, schedule, and resources, enabling effective project monitoring and reporting.
  - **Stakeholders:** Additionally, developers and product owners may refer to this document to understand the testing processes and criteria.
- **Key Features of the Test Plan:**
  - **Scope Definition:** Clearly identifies functionalities, features, and components to be tested.
  - **Testing Strategy:** Outlines the methodologies and techniques to be employed for different testing phases (unit, integration, system, etc.).
  - **Test Cases:** Specifies detailed test cases with expected outcomes for each scenario.
  - **Pass/Fail Criteria:** Defines clear criteria for determining successful or failed test outcomes.

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- **Schedule and Resources:** Estimates timeframes and identifies personnel and resources required for testing activities.
- **Risk Management:** Identifies potential risks associated with testing and outlines mitigation strategies.
- **Reporting and Monitoring:** Defines procedures for documenting test results, tracking progress, and reporting issues.

In conclusion, the test plan for Project Book Online is a crucial document that ensures a comprehensive and efficient testing process, ultimately leading to a high-quality, user-friendly online book platform. By providing a clear roadmap and defining expectations, the plan contributes significantly to the project's success and user satisfaction.

## 2. Target Test Items

Here's a list of target test items for Project Book Online, covering key features, areas, and attributes:

- **Functionality:**
  - Book search (by title, author, genre, keywords)
  - Book browsing and navigation (categories, bestsellers)
  - Book details page (description, reviews)
  - User account creation and login
  - Shopping cart and checkout process
  - Order confirmation and tracking
  - User profile management (reading history, personal information)
  - Book reviews and ratings
  - Content management (adding, editing, deleting books)
- **Performance:**
  - Page load times (under various load conditions)
  - Search response times
  - Responsiveness to user actions
  - Scalability to handle increased traffic
  - Compatibility with different browsers and devices
  - Compatibility with different operating systems.
- **Usability:**
  - User interface design (intuitiveness, clarity)
  - Navigation ease
  - Error handling and messaging

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- User satisfaction
- **Security:**
  - Authentication and authorization
  - Data encryption (passwords)
  - Data privacy and protection
- **Prioritization:**
  - Prioritize test items based on risk and impact.
  - Focus on critical functionalities and areas of high user interaction.
  - Conduct thorough testing of security features.
- **Remember:**
  - Continuously update the list as the project evolves.
  - Adapt the list based on specific project requirements and constraints.

### 3. Environmental Needs

#### 3.1 Hardware Requirements

- **Servers:**
  - Two servers are enough for a website with average visits in test phase.
  - Server specifications:
    - Processor:
      - Medium website with moderate traffic: 2-4 processors.
      - Server processors:  
**Intel Xeon Gold 6336:** This powerful processor features 36 cores and a base clock speed of 2.4 GHz, making it ideal for high-traffic websites with demanding workloads.
    - RAM: RAM for a small website: 16gb RAM
    - Storage: hard drive SSDs
    - Operating System:
      - **Windows Server:** A reliable option with strong commercial support and integration with Microsoft products. Some versions offer features specifically designed for web hosting and e-commerce applications.

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- **Client devices:**

- Desktops/laptops:

- Screen resolutions:

- Desktops: The most common desktop resolutions are:

- 1920x1080 (Full HD)
        - 1366x768
        - 1280x1024
        - 1440x900

- Laptops: Laptop resolutions tend to be more diverse, ranging from:

- 1366x768
        - 1920x1080
        - 3000x2000 (high-resolution models)

- Mobile devices:

- Operating systems:

- Mobile operating systems (e.g., Android 14, iOS 17)

- Mobile Devices: Smartphones and tablets have a wide range of resolutions, but popular options include:

- 1080x1920 (most iPhones and many Android phones)
        - 2560x1440 (high-end Android phones)
        - 2224x1080 (iPads)

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### 3.2 Software in the Test Environment

The following base software elements are required in the test environment for this *Test Plan*.

Factor	Purpose	Version
Web browser	Visit the website link, check the compatibility and usability of the website on different browsers.	Chrome 110+, Firefox 107+, Edge 105+, Safari 16+
Operating System	Make sure the website works on popular operating systems	Windows 10, Windows 11, macOS 13, macOS 14, Ubuntu 22.04, Fedora 37, Android 14, iOS 17
Email application	Test your ability to send and receive emails	Gmail
Network	Make sure the website is accessible from different locations	Minimum bandwidth 10Mbps, maximum latency 50ms

### 3.3 Productivity and Support Tools

The following tools will be employed to support the test process for this *Test Plan*.

Tool Category or Type	Tool Brand Name	Vendor or In-house	Version
Defect Tracking	Microsoft Excel 2021	Microsoft	2021
Word processor	Microsoft Word 2021	Microsoft	2021
Database manager	SQL server management 2019	Microsoft	2019
Email generator	Gmail	Google	
Project Manager	Jira	Jira	
Collaborator	Slack	Slack	



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## 4. Responsibilities, Staffing, and Training Needs

### 4.1 People and Roles

This table shows the staffing assumptions for the test effort.

Human Resources		
Role	Minimum Resources Recommended (number of full-time roles allocated)	Specific Responsibilities or Comments
Test Manager	Nguyen Chi Luong	Provides management oversight. Responsibilities include: <ul style="list-style-type: none"> <li>• planning and logistics</li> <li>• agree mission</li> <li>• identify motivators</li> <li>• acquire appropriate resources</li> <li>• present management reporting</li> <li>• advocate the interests of test</li> <li>• evaluate effectiveness of test effort</li> </ul>
Tester	Doan Anh Khoa Nguyen Le Tan Thanh Truong Tan Phong	Implements and executes the tests. Responsibilities include: <ul style="list-style-type: none"> <li>• implement tests and test suites</li> <li>• execute test suites</li> <li>• log results</li> <li>• analyse and recover from test failures.</li> <li>• document incidents</li> </ul>
Test System Administrator	Le Phuong Chi	Ensures test environment and assets are managed and maintained. Responsibilities include: <ul style="list-style-type: none"> <li>• administer test management system</li> <li>• install and support access to, and recovery of, test environment configurations and test labs</li> </ul>