BookLeaf

Test Plan

Version <1.0>

Revision History

| **Date** | **Version** | **Description** | **Author** |
| --- | --- | --- | --- |
| 02/12/2024 | 1.0 | Init the Test Plan | <name> |
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**Test Plan**

# Introduction

* **Purpose:** This Test Plan outlines the **approach, scope, strategy**, and **resources** needed to test the core functionalities of the BookLeaf application. The primary goal is to ensure that features related to sorting books, reading books, uploading books, and customizing the display meet all functional, usability, and security requirements.
* **Objectives:**
  + Verify that all specified use cases are implemented correctly.
  + Identify and document defects before product release.
  + Ensure a seamless reading experience with accurate customization options.
* **Usage:** *This document is intended for use by developers, testers, and test managers to guide the testing process.*
* **Scope:** The Test Plan covers functional, usability, and security testing for the following key features:
  + Sort Books
  + Read a Book
  + Change Display Options in Book View
  + Upload a Book
* **Personnel:**
  + Developers
  + Testers
  + Project Managers
  + Stakeholders
* **Key Features:**
  + Sorting books.
  + Reading books with customizable settings.
  + Change Book view Display options to enhance reading experience.
  + Upload a Book for usage.

# Target Test Items

* **Test items:**
  + UC01: Sort Books
    - Sort books by name (A-Z)
    - Sort books by name (Z-A)
    - Sort books by reading progress
    - Cancel sort action
    - Sort books with no results
  + UC02: Read a Book
    - Open a Book
    - Close a Book
    - Navigate through the Book
    - Chapter selection
    - System cannot load book content
  + UC03: Change Display options in a Book view
    - Switch on Dark mode
    - Switch off Dark mode
    - Change Font family
    - Change Font size
    - Change Font weight
    - Change Line height
  + UC04: Upload a book
    - User navigates to /books without having logged in
    - Upload .PDF file
    - Upload .EPUB file
    - Upload .PDF or .EPUB file but they included an executable script
    - Upload wrong types: other than .PDF or .EPUB
    - Upload a book without tags
    - Choose a tag which user created (exists in the database)
    - Request a tag that is not in the database
    - Cancel the process

### **Usability Testing**

* + Verify that the UI is intuitive and easy to navigate.
  + Ensure customization options are accessible and easy to use.

### **Performance Testing**

* + Test application responsiveness on different devices (desktop, mobile).
  + Validate loading times for book content and user profiles.

### **Security Testing**

* + Ensure that user profile data is secure.
  + Validate permissions when accessing or editing user data (Admin only).

# Environmental Needs

## Hardware Requirements

| **Device** | **Specification** |
| --- | --- |
| Desktop | Intel Core i5, 8GB RAM |
| Mobile (Android) | Android 10 or above, 3GB RAM |
| Mobile (iOS) | iPhone 8 or above |

## Software in the Test Environment

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

| **Software Name** | **Purpose** | **Version** | **Type and Other Notes** |
| --- | --- | --- | --- |
| Google Chrome | Web Access | Latest | Internet Browser |
| Opera GX | Web Access | Latest | Internet Browser |
| Safari | Web Access | Latest | Internet Browser |
| Android | Mobile Internet Browser Testing | 15 | Mobile Operating System |
| iOS | Mobile Internet Browser Testing | 18 | Mobile Operating System |

## 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 | MS Excel 2010 | Microsoft | 2010 |
| Documentation | MS Doc 2010 | Microsoft | 2010 |
| Tests Management | JIRA | Atlassian | Latest |

# Responsibilities, Staffing, and Training Needs

## 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 | 1 | Provides management oversight.  Responsibilities include:   * Plan and manage testing activities. * Monitor test execution and defect resolution. * Report progress. |
| Tester | 2 | Implements and executes the tests.  Responsibilities include:   * Write and execute test cases. * Log defects. * Verify defect fixes. |
| Developer | 2 | Fixes reported defects and assists in tests.  Responsibilities include:   * Fix defects. * Support testers during retesting. |
| Test System Administrator | 1 | Ensures the test environment and assets are managed and maintained.  Responsibilities include:   * Set up and manage test environments. * Ensure environment availability. |