

Test Plan

"Book Store Application"

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1. Introduction

This document is a Test Plan for a Book Store Application. The test plan verifies that the system works as required and validates that the correct functionality has been delivered. The Book Store's Application main functionality is to provide the user with a database of books which can be browsed and the books can be added to the user's collection.

2. Objective

The objective of the test plan is to determine that the application is working as intended. The main purpose of the task is to automate the process of verification of the main functionalities and to test the application's API's so when the code is modified for any reason in the future this regression pack can be run saving resources and time.

3. Roles and Responsibilities in the team

Roles	Responsibilities
Product Owner	They understand the business needs of the product, like customer expectations and market trends Set the product vision for the team Set the priorities of the team Make sure the team is focused on hitting product needs through communication and evaluating progress
Scrum Master	Lead sprint planning meetings. Conduct "retrospective" reviews to see what went well and what can be improved for the following sprint. Keep a pulse on team members, through individual meetings or other means of communication. Manage obstacles that arise for the team by communicating with stakeholders outside of the team.
QA Engineer	Perform various types of software testing Analyze the software requirements Prepare, write and execute test cases manually and automatically by using the proper tool Identify and document defects
Development (Front end and Back end)	Writing and implementing code Resolve defects and bug fixed that are reported Identifying areas for modification in existing programs and subsequently developing these modifications.
DevOps Team	Separate team that helps with various processes

4. Testing Strategies

In order to make complete testing on the app, different testing types are going to be performed, such as:

Regression Testing - is performed to test the recent code that affects the current features of the application to avoid any conflict.

Smoke Testing - is performed to check if special feature stability with the overall product is feasible or not.

Sanity Testing - is software testing that is performed after receiving a software build. The goal is to determine that the proposed functionality works approximately as expected.

System Testing - Full system testing and finding defects in simulated environment.

Performance testing - is a non-functional software testing technique that determines how the stability, speed, scalability, and responsiveness of an application holds up under a given workload.

Additionally other types of software testing will be conducted as needed.

5. Entrance Criteria

- Requirements are defined and approved.
- Verify if the Test environment is set up, available and ready for use.
- Verify if test tools installed in the environment are ready for use.
- Test cases are developed and ready.

6. Exit Criteria

- No high priority or severity or critical bug has been left out.
- Ensuring all Test Cases are passed.
- All the identified defects are corrected and closed.

7. Features to be Tested

The Frontend of the Bookstore application including main functionalities on the frontend that the end user can access and use properly.

Those are: login, register, searching for books, adding books, removing books, log out, user's profile as well as the API's will be properly tested.

8. Features not to be Tested

The Book Store application is on a Demo QA site and it can be reached on following URL:
<https://demoqa.com/books>

All other features that are on the same site won't be tested, such as: Elements, Forms, Alerts, Frame & Window, Widgets and Interaction.

9. Risks

1. Risk: Automation tests for Registration process cannot proceed because of reCAPTCHA.

Solution: The Captcha should be disabled on test environment.

2. Risk: Incomplete Requirements.

Solution: Acquire more detailed clarification from the customer.

3. Risk: Insufficient time for testing in case development took longer than expected.

Solution: Prioritization of test activities according to test case severity.

10. Tools to be used

Tool	Description
Cypress - Automation testing	Cypress framework is a JavaScript-based end-to-end testing framework built on Mocha. It can be used for automating test cases.
Postman - API testing	Postman is an API platform for building and using APIs. Postman simplifies each step of the API lifecycle and streamlines collaboration so you can create better APIs—faster.
Jira - Issues tracking	Software application developed by Atlassian that allows teams to track issues, manage projects, and automate workflows.

11. Environment needs

Several environments are planned for the whole development and testing process.

- QA/Test Environment
- Stage Environment
- Production Environment