| **Project Name** | Bookshelf | **Prepared By** | 2QAs |
| --- | --- | --- | --- |
| **Validated By** | Svyatoslav Kulikov | **Dated** | 03.11.2022 |
| **Plan Version** | v.1 |  |  |

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**1.** **Introduction.**

*Describe here whether the project consist of one application or from set of applications. Also describe what each application is and what the application for.*

The “**Bookshelf**” web-application is an online bookstore in Argentina. The language of the application is Spanish.

*…*

**2. Objectives.**

*Objectives of the Test Plan section deals with the purpose of the test plan.*

This document describes the plan for testing the “**Bookshelf**” web-application. This Test Plan document supports the following objectives:

* + Identify existing project information and the software that should be tested.
  + List the scope of testing
  + Recommend and describe the testing strategy to be applied.
  + Identify the required resources and provide an estimate of the test efforts.
  + List the deliverable elements of the test activities.

**3. Scope of work.**

**3.1. In Scope.**

| **#** | **Application/ component name** | **Function** | **Reference** |
| --- | --- | --- | --- |
|  | Login | Possibility to log in | Link to Specification |
|  | Catalog | Possibility to look through the Catalog, sort and filter books | Link to Specification |
|  | User Profile | Possibility to create his own profile to add personal information, address, save books as favorite ones or save information about the previous orders, to leave feedback | Link to Specification |
|  | Shopping cart | Possibility to add books to the card and proceed to check-out | Link to Specification |
|  | … | … | … |

**3.2. Out of Scope.**

| **#** | **Application/ component name** | **Function** | **Reference** |
| --- | --- | --- | --- |
|  | Third-party components | VISA, MasterCard Payment System |  |
|  | Localization | English, Portuguese and Chinese languages |  |
|  | … | … |  |

**4. Entry and Exit criteria.**

*The****Entry criteria****are the conditions that must be met before you can start the test. For a simple test, this section of the test plan would list the hardware and software that needs to be operational. For a more complicated test involving a new application, this section might specify at what stage of development the application needs to be.*

***Entry criteria:***

* Each tester should have the following web-browsers and OS: Google Chrome (Win 10, 11) and Safari (MacOS).
* Complete or partially testable code is available.
* Requirements are defined and approved.
* Availability of sufficient and desired test data.
* Test cases are developed and ready.
* Test environment has been set-up and all other necessary resources such as tools and devices are available.

*This section also describes the****Exit criteria****, the conditions that must be met before the test is completed. Exit criteria apply more to function tests than to other types of tests. For example, the exit criteria for a function test on a new application might require that all problems be resolved with a permanent fix and that all test cases be run successfully with the fixes in place.*

***Exit criteria:***

* Deadlines meet.
* Execution and updating of all test cases.

- Desired and sufficient coverage of the requirements and functionalities under the test.

- All the identified defects are corrected and closed

- No high priority or severity or critical bug has been left out.

- Maintaining defects with their current status.

**5. Risks.**

| **#** | **Risk** | **Probability, %** | **Status** | **Impact** | **Preventive Actions** |
| --- | --- | --- | --- | --- | --- |
| 1 | Inexperience of some test team members, which can be the reason for the omission of defects. | 90 | Identified | Very High | Timely assistance from experienced team members. |
| 2 | Hardware and Software issues, computer breakdowns and program failures. | 30 | Unidentified | Medium | 1.Availability of additional equipment that can be used in unforeseen situations.  2.Redistribution of work between other members of the team. |
| 3 | Last-minute changes in requirements. | 40 | Unidentified | High | Frequent and close cooperation with the customer in order to identify changes timely. Lay a time reserve in case of unforeseen changes. |
| 4 | The illness of one of the testing team members. | 10 | Unidentified | Low | 1. High communication level  2. Shared access to responsibilities of every Project Team member. |
| 5 | Internet disconnection. | 10 | Unidentified | Medium | 1. Organize teamwork in a way to be able to interchange each other’s functionality.  2. Save all project documentation on hardware of project members' local machines. |

**6. Resources.**

**6.1. Key project resources.**

| **#** | **Project Role** | **Name, e-mail** |
| --- | --- | --- |
| 1 | Project Manager | Liudmila B.,twoqas@gmail.com |
| 2 | Project Coordinator | Liudmila A.,twoqas@gmail.com |
| 3 | Test Leader | … |
| 4 | Dev Leader | … |
| 5 | Key Tester | … |

**6.2. Test Team.**

| **#** | **Project Role** | **Name** | **Responsibilities** |
| --- | --- | --- | --- |
|  | Test Leader |  | * Requirements review and analysis. * Creating test plan, test result report. * Estimating, planning, assigning and tracking the tasks to the Testing Team members. * Measuring, monitoring and reporting on the testing progress; test execution results, product quality and testing risks on a regular basis. * Creating testing artifacts: check-lists, test cases, bug reports; peer review. * Carrying out Front-end and Back-end functional testing, regression testing. * Communication with Project Manager, Project Coordinator and the Customer. * Optimization of the test strategy and process based on defect analysis, metrics, retrospective results, and users’ feedback. |
|  | Tester |  | * Requirements review and analysis. * Creating testing artifacts: check-lists, test cases, bug reports; peer review. * Carrying out Front-end and Back-end functional testing, regression testing. * Conducting an initial root cause analysis of the detected defects and submitting them. * Validating bug fixes. * Reporting on testing status. * Communication with Test Team. |
|  | … | … | … |

**6.3. Test environment and tools.**

**6.3.1. Hardware.**

| **Machine** | **Configuration** |
| --- | --- |
| Server | Cloud |

**6.3.2. Software.**

| **Machine** | **OS** | **Browser** | **Software Required for testing** |
| --- | --- | --- | --- |
| 1 | Win 10 | Google Chrome | PC |
| 2 | MacOS 13 | Safari | Notebook |

**6.3.3. Tools:**

* JIRA
* SQL MS Sever
* MS Office
* …

**7. Test documentation and deliverables**.

*The following test deliverables should be described:*

*1. Test Plan*

*2. Checklists / Test Cases*

*3. Test Result Report*

| **#** | **Title** | **Responsible role(s)** | **Frequency (delivery time)** | **Method of delivery** |
| --- | --- | --- | --- | --- |
| 1 | <Bookshelf> Test Plan | Test Lead | Once before the testing start | email |
| 2 | <Bookshelf> Test Cases | Test Team | Before the testing start | TestRail |
| 3 | Bug reports | Test Team | Upon finding a bug | jira |
| 4 | Test Result Reports | Test Lead | Weekly | email |

**8. Test Strategy.**

*All testing methods, levels and types should be added here with the explanation why we will use them.*

**8.1. Test Methods.**

Manual functional testing – is considered as the main method of the application testing**.**

**8.2. Test Levels.**

All testing levels should be used for application testing:

* Module testing
* Integration testing
* System testing

**8.3. Test Types.**

The following testing types will be used for application testing:

* Functional testing
* Black box testing
* Static testing
* Dynamic testing
* Positive testing
* Negative testing
* Web-applications testing
* New feature testing
* Regression testing
* Retesting testing
* Test cases based testing
* Exploratory testing
* Compatibility Testing
* Performance Testing
* Security testing
* Accessibility testing
* API testing
* GUI testing
* Usability testing
* Internationalization testing
* Smoke testing
* Critical path testing
* Extended testing

**9. Schedule and Milestones.**

*Identify Milestones and specify testing schedule based on them.*

| **Date** | **Activities** |
| --- | --- |
| … | Functional builds (new functionality implementation phase). All planned functionality should be implemented at this stage. |
| … | Bug fixing builds. |
| … | Date of release candidate build delivery. |

More detailed schedule can be found in the Project Plan document.

**10. Approvals.**

|  | **Project Manager** | **Customer** |
| --- | --- | --- |
| **Name** | Liudmila B. | … |
| **Date** | 3.11.2022 | … |