

**"Wishlist" feature project**

**Test Plan**

Project Documentation

**Background**  Estimations, schedule, strategy, and metrics are needed to

organize the testing process efficiently.

**Purpose** To organize the testing process effective and efficient during

the whole project period.

**Scope** Testing process description, metrics, schedule, resources.

**Audience**  Management staff, QA team, project team.

**File**  01 01 - Test Plan.docx

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**1. Project scope and main goals**

“Wishlist” is the list for all books saved by logged-in users of the site in their account. Users use this feature to remember the products them liked so as not to look for them again.

**2. Requirements to be tested**

See referenced sections in “Wishlist” Requirements.docx:

* UR-1.: smoke test.
* UR-2.: smoke test, critical path test.
* BR-1.\*: smoke test, critical path test.
* QA-2.\*: smoke test, critical path test.
* L-4: smoke test.

**3. Requirements NOT to be tested**

See referenced sections in “Wishlist” Requirements.docx:

* QA-1.1: no implementation required.
* L-3: no implementation required.

**4. Test strategy and approach**

**4.1. General approach**

The following test plan is formal, as understanding of the current state of the project is needed to build a detailed plan. As a result of the first run of functional tests, changes and improvements will be made to the test plan. The first run of the functional tests will give a clear idea of the level of stability of the system and the set of tests that will be performed in each configuration will be clearly defined.

This approach will give an opportunity to get a detailed report on the product being tested and to focus maximum attention on narrow places.

The customer will be provided with daily reports on the progress of testing, defects found, suggestions for improving the work of the product and its design. All detected defects will be reported to the customer's tracker as separate tickets for subsequent correction.

In the process of testing the site ad-hoc testing will be applied due to the lack of strict specification, as well as due to limited resources for the formalization of tests.

**4.2. Functional testing levels**

* Smoke test: automated with batch files under Windows.
* Detailed run of the functional tests with the detection and description of defects.
* Cross-browser compatibility testing will be performed with a description of the defects found.
* To check the bugs fixed by the developers and conduct regression testing.
* To test the product design with a description of the defects found

1. **Criteria**

* Acceptance criteria: 100% success of test cases on smoke test level and 90% success of test cases on critical path test level (see “Test cases success percentage” metric) if 100% of critical and major bugs are fixed. Final requirements coverage by tests should be at least 80%. 
* Testing start criteria: new build. 
* Testing pause criteria: critical path test must begin only after 100% success of testcases on the smoke test.
* Testing finish criteria: more than 80% planned for the current iteration test cases are executed.

1. **Resources **

* Software: four virtual machines:

**OS, approved for testing:**

* Windows 10

**Browsers, approved for testing:**

* Google Chrome 101.0.4951.41
* Opera 85.0.4341.75
* Firefox 99.0.1
* Hardware: two standard workstations (8GB RAM, i7 3GHz). 
* Personnel:
* One senior developer with testing experience (100% workload during all project time). Roles: team lead, senior developer.
* One middle developer (100% workload during all project time). Positions: developer.
* One senior tester (100% workload during all project time). Roles: team lead, senior tester
* One middle tester (100% workload during all project time). Positions: tester
* Time: one workweek (40 work hours). 
* Finances: according to the approved budget

1. **Schedule **

* 31.10 – requirements testing and finalizing. 
* 01.11 – test-cases and scripts for automated testing creation. 
* 02.11-17.11 – main testing stage (test-cases execution, defect reports creation). 
* 18.11 – testing finalization, reporting

1. **Roles and responsibilities **

* Senior developer: participation in requirements testing and code review.
* Middle developer: codding
* Senior Tester: documentation creation, test-cases execution, participation in code-review.
* Middle Tester: test-cases execution.

1. **Risk evaluation **

* Personnel (low probability): if any team member is inaccessible, we can contact the representatives of the “Data” project to get a temporary replacement (the commitment from the “Data” ).
* Time (high probability): the customer has indicated a deadline of 18.11, therefore time is a critical resource. It is recommended to do our best to complete the project by 16.11 so that one day (17.11) remains available for any unexpected issues. 
* Other risks: unstable office. Provide additional lighting and Internet in the office

1. **Documentation** 

* Requirements. Responsible person – tester, deadline – 01.11. 
* Test cases and defect reports. Responsible – tester, creation period – 02.11-17.11.
* Test result report. Responsible person – tester, deadline – 18.11.

1. **Metrics** 

* **Test cases success percentage:**

