

**Testing Plan**

Charity Second-hand Online Store

**Revised records**

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| --- | --- | --- | --- |
| **Update Date** | **Version** | **Description** | **Name** |
| 1th Apr 2020 | V1.0 | Initial testing plan | Michael Yin |
| 11th May 2020 | V1.1 | Final version | Michael Yin |
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# 1. Overview

## 1.1 Testing purpose

* Check whether the product meets the client's requirements. If the client's various functions and requirements are not met, the product will not be delivered
* Examine the business logic and code logic of the program. Each member of the project may have a slightly different understanding of the requirements. Therefore, testers have to check whether the code written by the developer has business logic errors and code logic errors.
* Improve product usability. This is also important, if a software product is not working well, the client's learning cost is too high, then the acceptance satisfaction of the product will decline, so the ease of use is also very important.
* Other mistakes. Any software product that fails to function properly or has its functions blocked should be submitted for revision and improvement by the developer.

## 1.2 Testing scope

1.2.1 Integration testing

Integration testing is the phase in software testing in which individual software modules are combined and tested as a group. Integration testing is conducted to evaluate the compliance of a system or component with specified functional requirements. It occurs after unit testing and before validation testing.

1.2.2 System testing

System testing is testing conducted on a complete integrated system to evaluate the system's compliance with its specified requirements. System testing takes, as its input, all of the integrated components that have passed integration testing.

For instance, project team focuses on business operational processes as below：

* The administrator uploads the product, changes the product information, and publishes the product.
* Register a new user, log in, bid, track an order, book a pickup, complete a transaction.

1.2.3 User acceptance test

The user acceptance test is the last quality inspection activity that the user carries out before the software product is put into practice after the software development. It has to answer the question of whether the developed software product meets the expected requirements and whether the user can accept it. Acceptance testing is a rigorous formal testing activity, since it is not just a matter of checking one aspect of the software for quality, but of conducting a comprehensive quality inspection and determining whether the software is up to standard.

## 1.3 Testing reference documentation

Requirements document, design document, system analysis document, quality assurance plan.

# 2. Testing Plan

## 2.1 Test environment preparation

|  |
| --- |
| **Software:** |
| Windows 10 x64 |
| MySQL V5.1 |
| JDK14 |
| Tomcat 9.0 |
| **Hardware:** |
| ThinkPad T450p: CUP-i5-4330 RAM-16G HD-480G SSD |
| Lenovo Xiao Xin 300: CPU-i7-6550 RAM-12G HD-480G SSD |
|  |

## 2.2 Human resources

|  |  |
| --- | --- |
| Testing task | Name |
| Integration testing | Michael Yin |
| System testing | Michael Yin |
| User acceptance testing | Zoe Liu |
| Bug fix | Cong Shang |

# 3. Testing execution plan

## 3.1 Testing method

The project team will use black box testing, also known as functional testing. It tests to see if each function is working properly. In testing, the program as a cannot open the box, in a completely regardless of the program under the condition of internal structure and internal characteristics, in the test program interface, it only check whether the program function normal use according to the terms of the requirements specifications, whether the program can properly receive input data and produce the correct output information. Black box testing focuses on the external structure of the program, regardless of the internal logical structure, and mainly tests the software interface and software functions.

## Data preparation

* + 1. Testing account
* Administrator account.
* User account.
  + 1. Testing data

Prepare 10 product data for uploading, editing, deleting, bidding and other operations.

# 4. Testing Schedule

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task Name | Duration | Start | Finish | Resource Name |
| Prepare the testing environment | 1 day | Thu 14/05/2020 | Thu 14/05/2020 | Michael, Cong |
| **Integration testing** |  |  |  |  |
| Write testing plan | 4 hours | Wed 01/04/2020 | Wed 01/04/2020 | Michael |
| Prepare test cases | 1 day | Wed 01/04/2020 | Thu 02/04/2020 | Michael |
| Execute integration testing | 1 day | Fri 15/05/2020 | Fri 15/05/2020 | Michael |
| Fix problems | 1 day | Mon 18/05/2020 | Mon 18/05/2020 | Cong |
| Write the integration testing report | 4 hours | Mon 18/05/2020 | Mon 18/05/2020 | Michael |
| **System testing** |  |  |  |  |
| Prepare test cases | 1 day | Thu 02/04/2020 | Fri 03/04/2020 | Michael |
| Execute system testing | 1 day | Tue 19/05/2020 | Tue 19/05/2020 | Michael |
| Fix problems | 1 day | Wed 20/05/2020 | Wed 20/05/2020 | Cong |
| Write the system testing report | 1 day | Wed 20/05/2020 | Wed 20/05/2020 | Michael |
| **User acceptance testing** |  |  |  |  |
| Prepare the testing environment | 1 day | Thu 21/05/2020 | Thu 21/05/2020 | Client, Cong, Michael |
| Prepare test cases | 1 day | Fri 15/05/2020 | Fri 15/05/2020 | Client |
| Perform acceptance testing | 1 day | Fri 22/05/2020 | Fri 22/05/2020 | Client |
| Fix problems | 1 day | Mon 25/05/2020 | Mon 25/05/2020 | Cong |
| Confirmed the problem has been fixed | 4 hours | Tue 26/05/2020 | Tue 26/05/2020 | Client |
| Write the acceptance testing report | 4 hours | Tue 26/05/2020 | Tue 26/05/2020 | Client |