

**Integration Testing Report**

Charity Second-hand Online Store

**Revised records**

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| --- | --- | --- | --- |
| **Update Date** | **Version** | **Description** | **Name** |
| 17th May 2020 | V1.0 | Integration testing report | Michael Yin |
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Contents

[**1. OVERVIEW** 3](#_Toc40390191)

[1.1 Testing purpose 3](#_Toc40390192)

[1.3 Testing scope 3](#_Toc40390193)

[1.4 Testing environment 6](#_Toc40390194)

[**2. Analysis of Testing Results** 7](#_Toc40390195)

[2.1 Analysis of testing problem 7](#_Toc40390196)

[2.2 Problem analysis 8](#_Toc40390197)

[2.2 Description of remaining problems 8](#_Toc40390198)

[**3.** **Overall evaluation** 10](#_Toc40390199)

# **1. Overview**

## 1.1 Testing purpose

Integration testing is a phase of the project testing in which individual software modules are grouped together and tested as a group. Integration tests are used to assess whether a system or component meets specified functional requirements. Integration testing prepares the user for later delivery for user acceptance testing.

**1.2 Testing schedule**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Integration Testing** | **Duration** | **Start time** | **End time** | **Name** |
| 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 |

## 1.3 Testing scope

According to the specification of system analysis and design and requirement document, the modules and functions involved in this test are as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Model** | **Model** | **Functional point** | **Description** |
| 1.1 | User | Goods display | Main page goods display | Display the 12 goods which are the closest to the close time |
| 1.2 | Goods display by category | Show the goods by category. In this system, it splits into 5 categories, such as toy, kitchen, tools, decoration and clothes. |
| 1.3 | View the detail of the goods. | Display the product details in the web page which include the title ,initial price, current price, the picture, the description of goods , close date and bid history |
| 2.1 | User management | Login | User input user name and password to login to the website. If the user did not login, the user only can browse the goods， but do not allow to bid. |
| 2.2 | Logout | User can logout at any time, if users do not do anything than 30 minutes. The system will logout automatically |
| 2.3 | Register | User can register an account by inputting some personal information |
| 2.4 | Password recover | User can find password by personal mobile number and email information |
| 2.5 | View the personal information | Show the user's personal information in the page. |
| 2.6 | Edit the personal information | User can update their personal information, but the user name could not be updated. |
| 3.1 | Auction | Auction | The bids price must higher than the current price. The auction time must be earlier than the close date. |
| 3.2 | ~~Donation~~ | ~~This function has been deleted.~~ |
| 4.1 | Order management | View the order | After the user login , user can check their order which they win. |
| 4.2 | Make appointments | Booking for pick up |
| 5.1 | Cart | Add items into the cart | Put items into the cart so that can find them any time. |
| 5.2 | View the cart. | Show the state of items which is in the user's cart. |
| 5.3 | Delete items form cart | Delete items from the cart |
| 6.1 | About us | About us | Show the introduction of the online store. |
| 7.1 | Contact us | Contact us | Shows the information of the shop. It includes address, website, contact phone number. |
| 8.1 | Admin | Goods management | Display product list | In the model, the system displays all of the goods in the system. |
| 8.2 | Add a new commodity | Administrator can add new goods for auction |
| 8.3 | Edit commodity | Administrator can modify goods information |
| 8.4 | Delete commodity | Administrator can set goods status |
| 9.1 | User management | Display user list | Display user's list |
| 9.2 | Change user's state | Enable or disable user's status |
| 9.3 | Change admin's state | Change admin's status |
| 10.1 | Order management | Display order list | Display order list |
| 10.2 | Change order status | When the user pick up, the admin change the order state to finish. |
| 11.1 | System | Generate orders | Generate orders | Create orders for the successful auction |

## 1.4 Testing environment

|  |
| --- |
| **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. Analysis of Testing Results**

## 2.1 Analysis of testing problem

【**Testing case Statistics**】

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Date | Total number of testing cases | The total number of cases found | Total number of cases resolved | Total number of cases with legacy issues | General Error rate (number of cases found/total number of cases) | Serious Error rate (number of cases found/total number of cases) |
| 15th May 2020 | 18 | 5 | 5 | 0 | 27% | 3% |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

【**Issue category statistics**】

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement unfulfilled | Function failure | Data loss | Abnormal display | Abnormal performance | Poor user friendliness | The message is incorrect | The total number of issues | Number of remaining problems |
| 0 | 8 | 0 | 2 | 2 | 2 | 0 | 14 | 0 |

## 2.2 Problem analysis

As can be seen from the above figure, functional failure accounts for the largest proportion, exception display, abnormal performance and poor user experience are 2 respectively. All requirements are met, no data loss problem, no abnormal information display problem. The reason is that some details of product prototype design are not designed, resulting in 2 cases of interface friendliness, and the rest are Bug categories. After interface adjustment and Bug repair, all the problems have been solved.

## 2.2 Description of remaining problems

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Issue description | The advice from the project team | Decision |
| N/A | N/A | N/A | N/A |
|  |  |  |  |
|  |  |  |  |

# **3.** **Overall evaluation**

The system integration test plan was developed at the beginning of development. Because the project requirements were identified, all functions were developed. The integration test passed, and any defects and bugs found in the test have been fixed. The test scope includes all the function points of the product, and the function points can operate normally, without operation exceptions and data problems. Legacy issues are not within the scope of the requirements and modifications will be abandoned.