*Stores and Purchase Management*

Test report

Version *1.0*

*04/04/2016*

VERSION HISTORY

|  |  |  |
| --- | --- | --- |
| **Version #** | **Implemented**  **By** | **Revision**  **Date** |
| 1.0 | 1 | 3/4/2016 |
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# 1.0 Introduction

## 1.1 Purpose

This Stores and Purchases Management System Test Report provides a summary of the results of test performed as outlined within this document.

# 2.0 Test PLAN

The following sequence(in order) was followed while conducting the testing for the project

* Basic testing
* System Testing
* User Acceptance Testing
* Performance Testing

Basic Testing: The testing team started with a basic walkthrough of the project searching for any loose ends and broken links.

System was tested for the faults in User Interface, the Database and the functioning.

System testing: In this category, we devised a set of test cases and served them to the software. Some passed and some failed and the results were carefully and duly noted down for further analysis.

User Acceptance Testing: The system was viewed from the perspective of the user and its capability to be served to the end users was tested.

Performance Testing: The system was judged under various parameters such as security, consistency and reliability

# 3.0 Test Assessment

Barring some minor issues, every major fault in the system has been identified by the test cases devised by the testing team. There were major issues in the User interface design and also in some functionalities. Immediate action needs to taken to repair these issues. The Database shows redundancy in many areas which is a waste of system resources,

# 4.0 Test Results

*[Summarize the test results. Include a detailed description of any deviations from the original test plan, design, test case, or expected results. Include any issues or bugs discovered during the test.]*

The design document was mapped to the developed software and some major defects emerged as follows:

1. The Users were not classified by High Class or Low class as mentioned in the document.
2. The Modules mapped correctly to the software. Although the inheritance mentioned in the class diagram were not observed.
3. The Sequence Diagram For Suggestions from the Users and View the Suggestions by Admin were not present.

The UI design was inefficient and various flaws were detected. Some of them are noted:

1. The list of ordered items showed the Quantity numbers were not indented properly.
2. After the login interface, an empty window appeared and we need to go to the Profile to get the User information and check login correctness. The empty window can be removed and user can be directed to the dashboard of my items or profile.
3. On going in the Request Panel, the TaskBar changed its color abruptly from Green to Grey.
4. When adding the item or placing the order a Scroll bar was added although there was plenty of space available on screen, this seemed to be unnecessary and redundant.
5. The Confirm button appears after the order has been placed, not in a Dialog Box but at the bottom of another button.
6. The error messages also appear at the bottom of screen and not in a message box.

The Major flaws in the Functionalities were :

1. In the Return of Items , it is possible to return Items whose order was not confirmed.
2. If the order exceeded the Quantity in the inventory, the notification panel of the Admin showed that the Order was successful.
3. Also, there is no message shown after the Logout, whether it is successful or not.

## Unit/Module/System Testing

Unit, module, and system integration testing activities were performed during the development of the system build or release.

## 4.2 System Testing

The table below summarizes the results of system testing:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Date Tested | Tester | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Closed prior to Production Release? *[This column will be filled by the dev team.]* | Comments |
| 1. | 3/4/2016 | Ravindra | Fail | High | Repair Item request not getting place(Repair Item Use case) |  | User is not able get item Repaired(use case 5) |
| 2. | 3/4/2016 | Ravindra | Pass | - | Credential Verification |  | - |
| 3. | 3/4/2016 | Sangram | Pass |  | Database Integrity and Maintanence |  | The changes made by the admin to the DB are reflected and orders, notification, suggestions of the users are added correctly. |
| 4. | 3/4/2016 | Sangram | Pass |  | Placing NON  Listed Items Order |  |  |
| 5. | 3/4/2016 | Sangram | Fail | High | Place Listed Items order |  | If the order exceeded the quantity, the error message is unclear also there is no way of knowing the exact Quantity in the inventory to place the order. |
| 6. | 3/4/2016 | Arnav J. | Fail | High | Repair Items  The unconfirmed order can be repaired. |  |  |
| 7. | 3/4/2016 | Arnav J. | Fail | High | Replace Items  The unconfirmed order can be replaced. |  |  |
| 8. | 3/4/2016 | Arnav C. | Fail | High | Multiple sessions can be accessed by the same user. Multiple Login is possible. |  |  |

## User Acceptance Testing

The table below summarizes the test cases employed for user acceptance testing and the test results obtained for each test case:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Date Tested | Tester | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Closed prior to Production Release? *[This column will be filled by the dev team.]* | Comments |
| 1 | 3/4/2016 | Arnav J. | Fail | Medium | If we give higher value as quantity for purchase request then it shows conformation button and even though quantity is not enough in the stock | <Yes> or <No> | Need some changes in Spurchase\_LItem.php file |
| 2. | 3/4/2016 | Arnav Chopra | Fail | Low | Suggestion box given as Input line but it should be as text-box field |  | Need some changes in suggestion.php file |
| 3. | 3/4/2016 | Arnav Chopra | Fail | None | Page header get disappeared when we go to suggestion page |  | Need some changes in suggestion.php file |
| 4 | 3/4/2016 | Arnav Chopra | Fail | High | User can place order for 1.00000001 chairs |  | Input data verification has to be done |
| 5. | 3/4/2016 | Ravindra | Fail | Medium | When we click on add item button for adding new item into inventory then it redirects us to order place page without adding item to inventory |  | Need to do some changes into displayInventory.php file |
| 6. | 3/4/2016 | Arnav Jindal | Fail | Low | It does not redirect to logIn page if user is not logged in |  | User should redirected instead of just showing please log in message |
| 7. | 3/4/2016 | Ravindra | Fail | Medium | Faculty can input invalid url for non listed item purchasing |  | Url verification need to be done |
| 8 | 3/4/2016 | Sangram | Fail | Medium | UI of Inventory for the admin. The indentation of Quantities is not clear. |  |  |
| 9. | 3/4/2016 | Sangram | Fail | Medium | The Consumability column in Inventory is Redundant and must be removed. It must take values as Yes or No. |  |  |
| 10. | 3/4/2016 | Arnav C. | Fail | Medium | UI: The Task bar color changes when we go to the Notifications Panel. |  |  |
| 11 | 3/4/2016 | Sangram | Fail | High | Place Order in Listed Items : Error Message Is Unclear. Does not appear in a message box. |  |  |
| 12 | 3/4/2016 | Sangram | Fail | Medium | Listed order Confirm message is unclear and does not appear in the Message box |  |  |
| 13 | 3/4/2016 | Arnav J. | Fail | Medium | Scroll Bar over Listed Items is unnecessary. Also the Listed Items box can be increased in size for better Visibility to User. |  |  |
| 14. | 3/4/2016 | Sangram | Fail | High | In Admin: while in Notification or Suggestion Panel the Request Cell is highlighted. |  |  |
| 15. | 3/4/2016 | Arnav C. | Pass |  | Forgot Password Case is checked. |  |  |
| 16. | 3/4/2016 | Arnav C. | Pass |  | Register New Members as per Institute DB. |  |  |

## Regression Testing

The table below summarizes the test cases employed for regression testing and the test results obtained for each test case:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Date Tested | Tester | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Closed prior to Production Release? *[This column will be filled by the dev team.]* | Comments |
|  |  |  |  |  |  | <Yes> or <No> |  |

*[If the test case failed, list the corresponding Test Incident ID in the Comments column.]*

## Performance Testing

The table below summarizes the test cases employed for performance testing and the test results obtained for each test case:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Date Tested | Tester | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Closed prior to Production Release? *[This will be filled by the dev team.]* | Comments |
| 1. | 3/4/2016 | Ravindra | Fail | High | Password Hashing has not done | <Yes> or <No> | Password hashing is an important aspect for security the software |
| 2. | 3/4/2016 | Ravindra | Fail | High | Software is not prevented against sql injections |  | Prevention mechanism against sql injections need to be implemented |
| 3. | 3/4/2016 | Arnav J. | Fail | High | Same interface for login to all types of users |  | - |
| 4. | 3/4/2016 | Ravindra | Fail | High | User is able to have password as blank-space |  | Password field can not be blank-space |
|  |  |  |  |  |  |  |  |

*[If the test case failed, list the corresponding Test Incident ID in the Comments column.]*

## <Type of Test>

The table below summarizes the test cases employed for <type of test (e.g., unit/ module/ interface testing)> and the test results obtained for each test case:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Date Tested | Tester | Pass/Fail | Severity of Defect [Low/ Medium/ High] | Summary of Defect | Closed prior to Production Release? *[This will be filled by the dev team.]* | Comments |
|  |  |  |  |  |  | <Yes> or <No> |  |

*[If the test case failed, list the corresponding Test Incident ID in the Comments column.]*

# 5.0 Variances

The test cases were manually created as compared to the scripts and software being used in the industries but were sufficient enough to test all the boundary cases as well as major drawbacks in the system. The testing was planned, divided and executed in phases by all the team members involved.

The system works on the browser environment of: Mozilla Firefox and Google Chrome.

Also the system was hosted on the local host and was not tested by making it online on the internet.

# 6.0 Test Instances

The UI design is not User Friendly and inefficient at many places as mentioned in the User Acepatance Testing Field.

## Resolved Test Incidents

*[Identify all resolved test incidents and summarize their resolutions. Reference may be made to Test Incident Reports that describe in detail the unexpected results, problems, or defects reported during testing, along with their documented resolutions, which may be included as an appendix to this document.]*

*[This will be filled by the dev team.]*

## Unresolved Test Incidents

*[Identify all unresolved test incidents and provide a plan of action for their resolution. Reference may be made to Test Incident Reports that describe in detail the unexpected results, problems, or defects reported during testing, which may be included as an appendix to this document.]*

*[This will be filled by the dev team.]*

# 7.0 Recommendations

1. User Interface is not at all user friendly and creates a lot of confusion many times.

Backend functionality needs to be rechecked. Major Functionality flaws must be given the priority.

**APPENDIX A: REFERENCES**

*[Insert the name, version number, description, and physical location of any documents referenced in this document. Add rows to the table as necessary.]*

The following table summarizes the documents referenced in this document.

|  |  |  |
| --- | --- | --- |
| **Document Name** | **Version** | **Description** |
| *<Document Name>* | *<Version Number>* | *[Provide brief description of the document]* |

**APPENDIX B: KEY TERMS**

*[Insert terms and definitions used in this document. Add rows to the table as necessary.]*

The following table provides definitions for terms relevant to this document.

|  |  |
| --- | --- |
| **Term** | **Definition** |
| *[Insert Term]* | *[Provide definition of the term used in this document.]* |
| *[Insert Term]* | *[Provide definition of the term used in this document.]* |
| *[Insert Term]* | *[Provide definition of the term used in this document.]* |