# Task Management System

# Test Summary

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Primary Author(s) | Description of Version | Date Completed |
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# Test Report

1. **Introduction**
   1. Purpose

The main purpose of the report is to give a conclusion on whether the software should be deployed. In addition, this report also provides the source of analytic assessment of software quality. Furthermore, the report could provide reference for modifying and retesting the software.

* 1. Scope

The SUT is the Task Management System which we received. And the expected readers are members of higher management group including project managers and cons ignors of the testing procedure. Stuffs who are involved in this project are also considered potential readers.

* 1. References

Joe Timoney, Stephen Brown , Tom Lysaght, Deshi Ye. Software Testing: Principles and Practice[M]. China Machine Press Beijing, 2012.

Myers G J, Sandler C, Badgett T. The art of software testing[M].

John Wiley & Sons, 2011. Patton R. Software Testing[M]. Indianapolis: Sams, 2001.

1. **Test Infrastructure**
   1. Test Environment

Operating System：Win7/8/8.1/10，MacOS，Linux

Database：MySQL

Javascript version：Javascript5.0

Web server：Apache

Web browser：IE10 plus，Chrome45 plus, Safari, Opera, Firefox

Bug Tracing System: Bugzilla

Function test: Selenium

Performance test: Jmeter & Badboy

Safety test: IBM Security AppScan Standard

Compatibility test: IETester & browsershots

* 1. Test Build Infomation

The project is deployed on a abroad server located in America. The information of the server machine are following:

Operating System: CentOS 7.1

Database: MySQL 5.6.24

Server: Tomcat 7.0

Software: Task Management System ver1.0

1. **Test Results Summary**
   1. Test Case Execution Status by Test Suites
      1. Test for Team Structure

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Suite | Total | Planned | Executed | Passed | Failed | NA | Block | TBV | NP |
| TS001 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 0 |
| TS002 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 |
| TS003 | 3 | 3 | 3 | 2 | 1 | 0 | 0 | 0 | 0 |
| TS004 | 6 | 6 | 6 | 4 | 2 | 0 | 0 | 0 | 0 |
| TS005 | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |
| TS006 | 6 | 6 | 6 | 3 | 0 | 3 | 0 | 0 | 0 |
| TS007 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |

* + 1. Test for Task Management

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Suite | Total | Planned | Executed | Passed | Failed | NA | Block | TBV | NP |
| TM001 | 31 | 31 | 31 | 19 | 11 | 0 | 0 | 0 | 0 |
| TM002 | 2 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| TM003 | 6 | 6 | 6 | 3 | 2 | 1 | 0 | 0 | 0 |
| TM004 | 11 | 11 | 11 | 10 | 1 | 0 | 0 | 0 | 0 |
| TM005 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| TM006 | 6 | 6 | 6 | 6 | 0 | 0 | 0 | 0 | 0 |
| TM007 | 6 | 6 | 6 | 6 | 0 | 0 | 0 | 0 | 0 |
| TM008 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| TM009 | 17 | 17 | 17 | 9 | 8 | 0 | 0 | 0 | 0 |
| TM010 | 4 | 4 | 4 | 3 | 1 | 0 | 0 | 0 | 0 |
| TM011 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| TM012 | 5 | 5 | 5 | 2 | 3 | 0 | 0 | 0 | 0 |
| TM013 | 9 | 9 | 9 | 1 | 5 | 3 | 0 | 0 | 0 |
| TM014 | 12 | 12 | 12 | 7 | 5 | 0 | 0 | 0 | 0 |

* + 1. Test for Task Daily Report

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Suite | Total | Planned | Executed | Passed | Failed | NA | Block | TBV | NP |
| TR001 | 5 | 5 | 5 | 1 | 3 | 1 | 0 | 0 | 0 |
| TR002 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| TR003 | 19 | 19 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| TR004 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 |
| TM005 | 3 | 3 | 3 | 2 | 0 | 1 | 0 | 0 | 0 |
| TM006 | 7 | 7 | 7 | 6 | 1 | 0 | 0 | 0 | 0 |
| TM007 | 4 | 4 | 4 | 2 | 2Z | 0 | 0 | 0 | 0 |

* + 1. Test for Database

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Suite | Total | Planned | Executed | Passed | Failed | NA | Block | TBV | NP |
| TD001 | 8 | 8 | 8 | 1 | 3 | 4 | 0 | 0 | 0 |
| TD002 | 13 | 13 | 13 | 5 | 4 | 4 | 0 | 0 | 0 |

* + 1. Test for Safety

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Suite | Total | Planned | Executed | Passed | Failed | NA | Block | TBV | NP |
| TS001 | 32 | 32 | 32 | 0 | 32 | 0 | 0 | 0 | 0 |

* + 1. Test for Compatibility

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Suite | Total | Planned | Executed | Passed | Failed | NA | Block | TBV | NP |
| TC001 | 12 | 12 | 12 | 12 | 0 | 0 | 0 | 0 | 0 |
| TC002 | 6 | 6 | 6 | 3 | 3 | 0 | 0 | 0 | 0 |
| TC003 | 17 | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 0 |

* + 1. Test for UI

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Suite | Total | Planned | Executed | Passed | Failed | NA | Block | TBV | NP |
| TU001 | 3 | 3 | 3 | 2 | 1 | 0 | 0 | 0 | 0 |
| TU002 | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |
| TU003 | 6 | 6 | 6 | 6 | 0 | 0 | 0 | 0 | 0 |
| TU004 | 4 | 4 | 4 | 1 | 3 | 0 | 0 | 0 | 0 |
| TU005 | 6 | 6 | 6 | 4 | 2 | 0 | 0 | 0 | 0 |
| TU006 | 5 | 5 | 5 | 0 | 5 | 0 | 0 | 0 | 0 |
| TU007 | 7 | 7 | 7 | 4 | 3 | 0 | 0 | 0 | 0 |

* + 1. Test for Performance

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Suite | Total | Planned | Executed | Passed | Failed | NA | Block | TBV | NP |
| TP001 | 3 | 3 | 3 | 2 | 1 | 0 | 0 | 0 | 0 |

* 1. **Charts**
     1. Total Bugs
     2. Total Test Bugs
     3. Test for Team Structure
     4. Test for Task Management
     5. Test for Task Daily Report
     6. Test for Database
     7. Test for Safety
     8. Test for UI
     9. Test for Performance

1. **Defect Metrics**
   1. Defect List

Please reference from the appendix of bugs-2016-12-30.csv.

* 1. Defect Summary

After analyzing the bugs found, we summed up 175 defects in total. 41 for documents and 134 for real tests. The diagram shows how they distribute among the modules. The severity of the defects are divided into seven levels:

1. **Risks and Issues**
   1. Confusing Documents

The document for requirement has plenty of wrong or Ambiguous interpretation. That leads to incompletement or even fail in development.

* 1. Functional Defects

The functionality of the system is incomplete. We found 54 actions fail int the test. Besides, there are lots of function had not been implemented. And the mutuality of the different function model is also not that good.

* 1. Bad Database

The database has not saved the right thing, and lack of efficiency and safety. And has not implemented integrating.

* 1. Security Issues

The system has plenty of severe issues in security, namely SQL injection problem, XSS problem, authentication problem, access control problem and so on, which produce a bad influence to the reliability of system.

* 1. Unfriendly UI

The interface for users has not take some important factors into consideration. And some functions are difficult to find or make it work for users.

* 1. Perfomance Issues

The performance of the system is not good enough too. For example, the response time of the page is obviously not comfortable for users when the amount of requests are large.

1. **Suggested Actions**

Based on the requirement given and the test results, we think the system is not prepared enough to be a good product. Consequently, we strongly suggest that the system should be postponed the release, the reasons is specific and we already listed in the last section “Risks and Issues”. In addition, we want to give several suggestions as following:

Firstly, fix the functional defects based on the severity level given. This is fundamental issue of the system. If the functions are not complemented, it is impossible for the system to be good enough and usable for users.

Secondly, take the security issue into consideration, which is crucial for the reliability of the system. Only that can make users trust the system and make use of it.

Thirdly, change the design of some web pages and the interface, make them more comfortable for users to enjoy, which is also means to be more humanized.

Fourthly, deal with the inconsistencies between the documentation and implementation, that leads to the confusion of the system, and do influence the whole development of the system.

Last but not least, optimize the performance of the system, such as response time, to provide better experience for users.