

TestLink Test Task Force



# Test Summary Report (Trial Version)

Test Project: Test Task Force - Testing TestLink around the world.

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# 1 Introduction

The TestLink “Test Task Force (TTF)” is the organization of testing teams for TestLink product. These teams are independent of developers and the members are joining from all over the world. The team members executed trial test in order to prepare the real phase testing. In this report, we provide the summary of the test execution.

## 2 Overview of Test Plan

### 2.1 Summary

This trial run has the following objectives.

- Test the basic features of TestLink 1.7.1 before the release.
- Execute trial test cases and review them in order to feedback for the real phase.
- Discuss the case study of distributed location testing with TestLink.

To use the build “testlink\_branch.1\_7\_2007-10-24”, the test was executed. The build is pre-release of TestLink 1.7.1 in order to test it. We were executing 86 test cases in a week. Six testers created test cases and executed them.

The test cases have been mainly categorized in three test suites. The first test suite covers the basic feature of TestLink. The tests validate the main functions and the localization briefly. The second test suite is created for checking to upgrade from 1.7.0 to 1.7.1. The upgrade is accompanied by changing database schema. The third test suite contains test cases for the function related to Microsoft SQL Server.

Yoshihiro Yoshimura, AZMA Daisuke, Masataka Yoneta, Sadahiko Hantani, Masami Ichikawa and Toshiyuki Kawanishi participated in this test.

### 2.2 View Results

The test cases for most basic features are passed but the test cases related to the following two features are failed or blocked. One of the features is new database schema associated with “Test Plan”. Another is the installer functionality with Microsoft SQL Server. These are the main change in version 1.7.1. It seems to show worth of the test.

According to the results, the build can be released officially with modifying components related to these feature. (The developer actually did so.) See “Test Results Report” for the further details of the test results.

### 2.3 Incidents Reports

1. Display the following error messages related to PHP class definition.

```
Notice: Undefined property:
stdClass::$order_by in
C:\xampp\htdocs\testlink\lib\functions\attachments.inc.php
on line 281
```

2. We could check the changes of database table schema relating test specification but table schema relating test plan may be not changed.

Example : An error message of tester assignment

```
Notice: Undefined index:
is_open in D:\www\testlinkjp\lib\plan\tc_exec_assignment.php
on line 49 1064
- You have an error in your SQL syntax;
check the manual that corresponds to your MySQL server version
for the right syntax to use near ''2007-11-02 12:58:17''
at line 1
- INSERT INTO user_assignments
(feature_id,user_id,assigner_id,type,status,creation_ts)
VALUES(1,1,1,1,, '2007-11-02 12:58:17')
```

3. When keywords with multi-byte characters were imported / exported via CSV, the characters are garbed.

4. When we use the Microsoft SQL Server, test components with multi-byte characters are garbed.

5. The installer of 1.7.0 final could not finish installation with the Microsoft SQL Server.

TestLink development team has already fixed these incidents excluding the third and fourth incidents. The changes are included in the official 1.7.1 release.

## 3 Future Plan

### 3.1 Automation

We are planning automation testing with “Selenium”. It is an open source testing tool for web based software. Japan team of TTF is researching usage of the tool for TestLink functional test. The planning of automation is divided into following two phases.

**[First Phase] Python Test Runner:** In the first phase, we run automation test from Python script. The script downloads the resent build of the product under test and kicks off the Selenium core. The test cases are written by HTML in selenium format.

One of the members of this team, Masami is developing the main script and the test cases for TestLink. You can download the experimental version from subversion repository on SourceForge.JP.

Export via svn: <http://svn.sourceforge.jp/svnroot/testlinkjp/tool/autotest/>

Get tar-ball: <http://svn.sourceforge.jp/cgi-bin/viewcvs.cgi/tool/autotest/?root=testlinkjp>

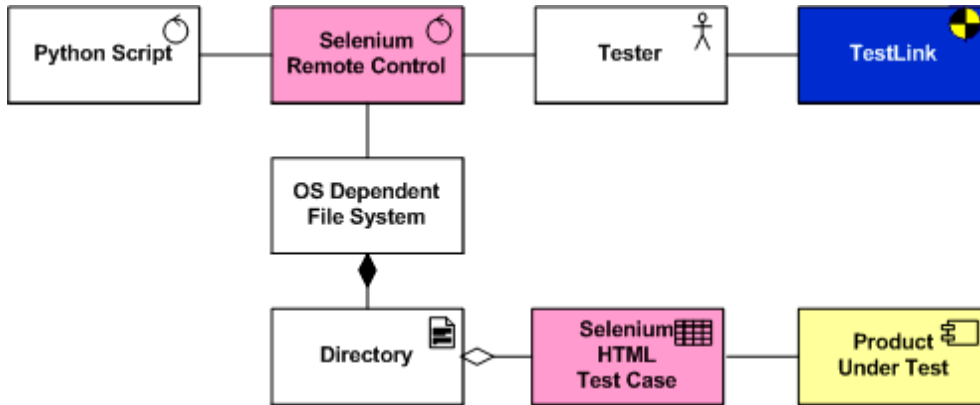


Figure 1: First Phase of Automation

**[Second Phase] Selenium and TestLink Combination:** In the next phase, we will post our test cases to TestLink. This method is based on the Hantani’s idea.

We plan to post the Selenium HTML test cases into the “Steps” fields of TestLink test cases. The external script obtains automatically the test cases from TestLink and returns the results to TestLink. It will be possible by the functions of XML-RPC in the future TestLink release.

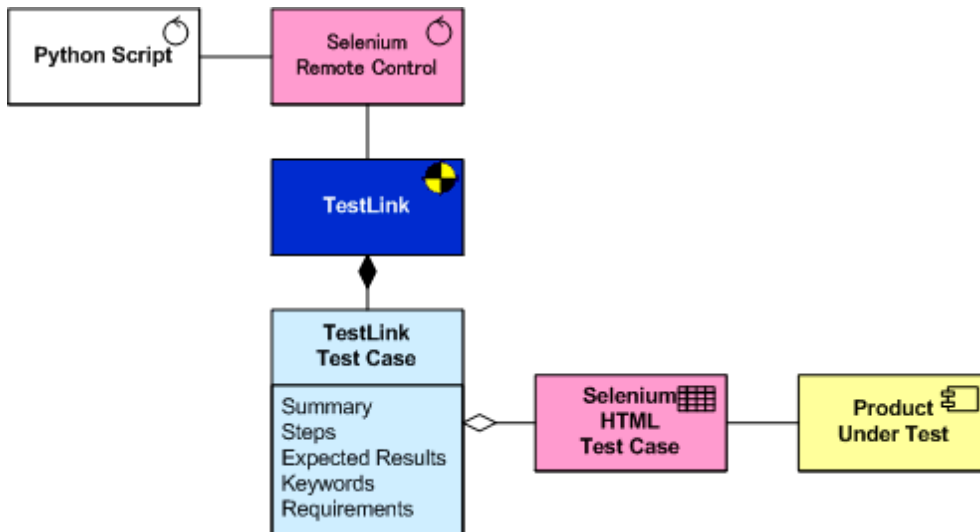


Figure 2: Second Phase of Automation

### 3.2 Testing Process

We are brushing up the TTF testing process itself. We have two ideas about the improvement of the process.

**Mail Driven:** Would you like to receive reminder mail from TestLink? The mails announce the creation of test plan and the end of test. Therefore, testers can join the testing activities according with the mails. It is based on Hantani's request. We will post this request to the request tracking system of TestLink development team.

**Entry and Exit Criteria:** We feel the need to define clearly the entry and exit criteria of each test execution. In our idea, the criteria are expressed by TestLink test cases. After passing a few tests, we start the main tests. It is based on AZMA's idea. See the Rex Black's book for details about test processes.

## Acknowledgments

We thank the members of TestLink development team and all contributors. In addition, special thanks to Mr. Egawa. He is a bibulous specialist of English.

## References

- [1] TestLink Test Task Force, "Test Results Report", Technical Report - 1, 2007, <http://testlinkjp.org/testtaskforce>.
- [2] Microsoft Corporation, "Microsoft SQL Server", <http://www.microsoft.com/sql/>.
- [3] Python Community, "Python Programming Language", <http://www.python.org/>.
- [4] Rex Black, "Managing the Testing Process", 2002, John Wiley & Sons Inc.

## Announcements

Do you think that the activities of Test Task Force are exciting? We welcome your contributions. By your testing, TestLink can get more advantage. Please visit our web site and contact us at the following e-mail address.

`testlink.ttf.admin@gmail.com`

`http://testlinkjp.org/testtaskforce/`