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Course Code and Name: 2CSDE80 Software Testing & Quality Assurance

Practical No: 3

AIM : To perform a comparative analysis by using the testlink software

Step1 : Installation

TestLink 1.9 (Prague) - New Installation

- Acceptance of License
- Verification of System and configuration requirements
- Definition of DB access**
- Create DB, testlink DB user, structures and default data & create configuration file.
- Verify the procedure result and continue to TestLink login.

Database Configuration

Define your database to store TestLink data:

Database Type

Database host

*Note: In the case that you DB connection doesn't use **STANDARD PORT** for , you need to add '**port_number**', at the end Database host parameter. Example: you use MySQL running on port 6606, on server matrix then Database host will be matrix:6606*

Enter the name of the TestLink database . The installer will attempt to create it if not exists.

Database name

*Disallowed characters in Database Name:
The database name can contains any character that is allowed in a directory name, except '/', '\', or '.'.*

Table prefix (optional)

Note: This parameter should be empty for the most of cases.

localhost / 127.0.0.1 | phpMyAdmin x TestLink 1.9 (Prague) - New installation x

localhost/testlink-1.9.0/install/installDbInput.php? (optional)

Note: This parameter should be empty for the most of cases.
Using a Database shared with other applications: TestLink can be installed (using this installer) on a existing database used by another application, using a table prefix.
Warning! PART OF INSTALLATION PROCESS CONSISTS on dropping all TestLink tables present on the database/schema (if any TestLink table exists). Backup your Database Before installing and load after this process.

Set an existing database user with administrative rights (root):

Database admin login

Database admin password

This user requires permission to create databases and users on the Database Server.
These values are used only for this installation procedures, and is not saved.

Define database User for Testlink access:

TestLink DB login

TestLink DB password

This user will have permission only to work on TestLink database and will be stored in TestLink configuration.
All TestLink requests to the Database will be done with this user.

After successful installation You will have the following login for TestLink Administrator:
login name: admin
password: admin

localhost / 127.0.0.1 | phpMyAdmin x TestLink 1.9 (Prague) - New installation x

localhost/testlink-1.9.0/install/installNewDb.php

TestLink 1.9 (Prague) - New installation

TestLink setup will now attempt to setup the database:

Creating connection to Database Server: **OK!**

Database testlink does not exist.
Will attempt to create:
Creating database 'testlink': **OK!**
Creating Testlink DB user 'admin': **OK! (ok - new user)**
Processing:sql/mysql/testlink_create_tables.sql
OK!
Writing configuration file: **OK!**

YOUR ATTENTION PLEASE:
To have a fully functional installation You need to configure mail server settings, following this steps


- copy from config.inc.php, [SMTP] Section into custom_config.inc.php.
- complete correct data regarding email addresses and mail server.

Installation was successful
You can now log into the TestLink (using login name:admin / password:admin - Please Click Me!).

Step2 : Login and Credentials

localhost / 127.0.0.1 | phpMyAdmin x TestLink x

localhost/testlink-1.9.0/login.php?note=expired


TESTLINK 1.9 (PRAGUE)

Your session has expired! Please login again.

Login Name

Password

New User?
Lost Password?

TestLink project Home
TestLink is licensed under the GNU GPL

• There are security warnings for your consideration. See details on file: C:/xampp/htdocs/testlink-1.9.0/logs/config_check.txt. To disable any reference to these checkings, set \$CFG->config_check_warning_mode = 'SILENT';

Step3 : Create new Test Project in Test Project Management

TestLink 1.9 (Prague) : admin [admin] [My Settings | Logout]
Project | Test Specification | Test Execution | Test Reports | User Management | Events | 1- | Test Project | Test Project Assignment ▼

Test Project Management

Create

Name	Description	Prefix	Requirement Feature	Active	Public	delete
Test Project Assignment	Our aim for this practical is that we would study about different functionalities of...	1		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Step4 : Create a new Test Plan in Test Plan Management

TestLink 1.9 (Prague) : admin [admin] [My Settings | Logout]
Project | Test Specification | User Management | Events | 1- | Test Project | Test Project Assignment ▼

Test Plan Management - Test Project Test Project Assignment

Name: Test Project Assignment

Description: Our aim for this practical is that we would study about different functionalities of testlink and do to step at each step

Active: ☐
Public: ☐

Create Cancel

Test plans should encompass a (set of) clearly defined tasks with a timeframe and content. They can be created for everything from simple change requests to new product versions. It is recommended that the description field be used to document links to project plans and related documentation, lists of features to be tested, risks, etc. You can create a new test plan from an existing one. The items that are copied include: builds, test cases, priorities, milestones, and user roles. Test plans can be deactivated (i.e., editing and changing of results change are not allowed). Deactivated test plans are visible only via 'Reporting' and this page.

Step5 : Create Test Suites

a) Functionality Testing

TestLink 1.9 (Prague) : admin [admin] [My Settings | Logout]
Project | Test Specification | Test Execution | Test Reports | User Management | Events | 1- | Test Project | Test Project Assignment ▼

Navigator - Test Specification

Settings: Update tree after every operation ☒

Filters: Test Case ID: 1- Test Case Title: Test Suite: Execution type: [Any] ▼

Apply Reset Filters

Test Suite : Functionality Testing

Test Suite Operations: Create Edit Move/Copy Delete Sort alphabetically Import Export

Test Case Operations: Create Move/Copy Delete Sort by external ID Import Export

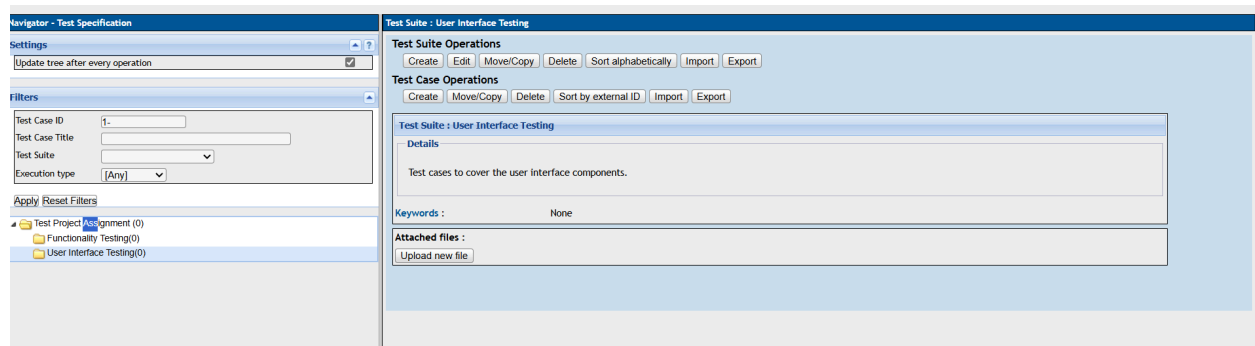
Test Suite : Functionality Testing

Details: Test cases to cover functional aspects of a project.

Keywords: None

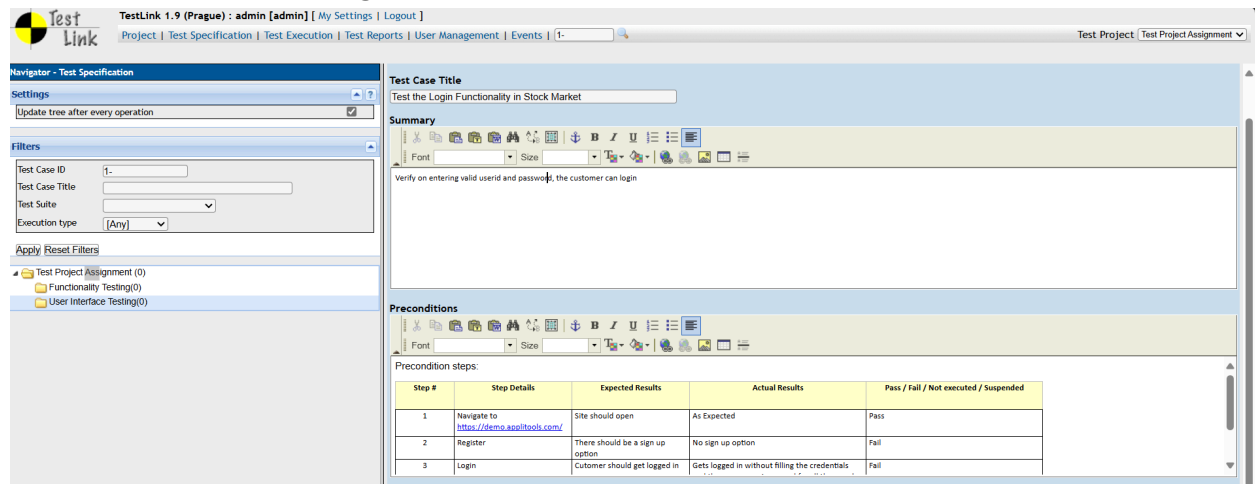
Attached files: Upload new file

b)User Interface (UI) Testing

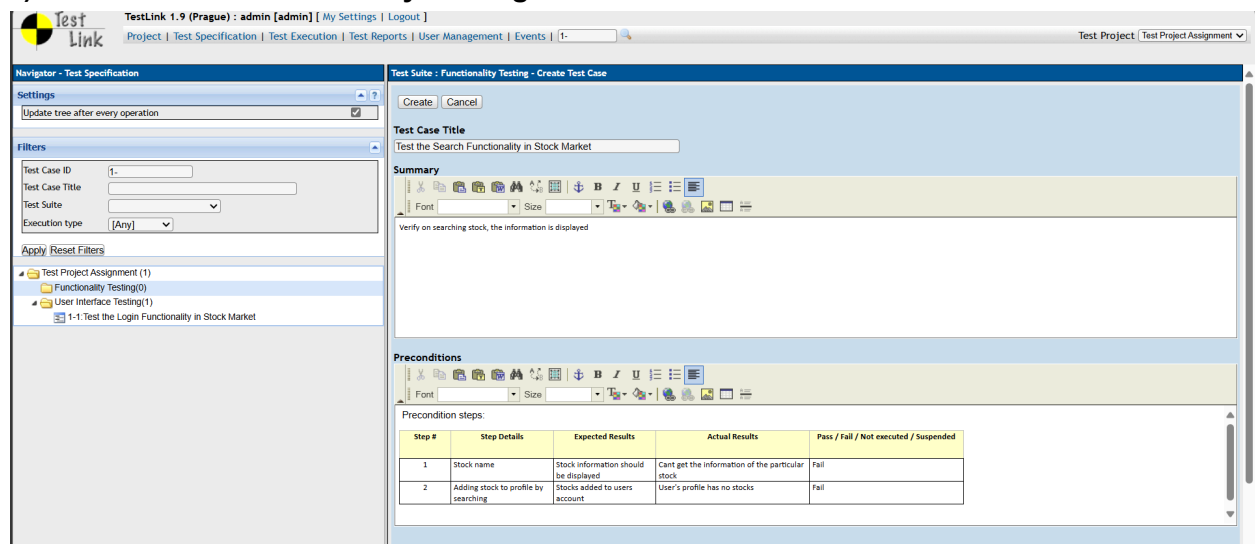


Step6 : Create Test Cases for each Test Suite

a)Test cases for UI Testing



b)Test cases for Functionality Testing



TestLink 1.9 (Prague) : admin [admin] [My Settings | Logout]
 Project | Test Specification | Test Execution | Test Reports | User Management | Events | 1-

Test Project | Test Project Assignment

Navigator - Test Specification

Settings
 Update tree after every operation ☒

Filters
 Test Case ID: 1-
 Test Case Title:
 Test Suite:
 Execution type: [Any]

Apply | Reset Filters

- Test Project Assignment (2)
 - Functionality Testing(1)
 - User Interface Testing(1)

Test Suite : Functionality Testing - Create Test Case

Test Case Test the Search Functionality in Stock Market was successfully created

Create | Cancel

Test Case Title
 Test the various functions functionality in user's profile in Stock M

Summary
 Verify on different functions from the menu, the information is displayed

Preconditions
 Verify on different functions from the menu, the information is displayed

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Click on notification icon	Notifications should get displayed	Nothing is displayed	Fail
2	Click on credit card section from card types	Credits cards details should be mentioned	Nothing is displayed	Fail
3	Click on loans section from lending	Loans details should be mentioned	Nothing is displayed	Fail
...

Step7 : Test Execution

a)Manually test each test case for User interface Testing

TestLink 1.9 (Prague) : admin [admin] [My Settings | Logout]
 Project | Test Specification | Test Execution | Test Reports | User Management | Events | 1-

Test Project | Test Project Assignment

Test Plan : Test Project Assignment [Build : Test Build]

Settings
 Test Plan: Test Project Assignment
 Build to execute: Test Build
 Update tree after every operation ☒
 Export Test Plan

Filters
 Test Case ID: 1-
 Test Case Title:
 Test Suite:
 Execution type: [Any]
 Assigned to: [Any]
 Include unassigned Test Cases: ☐
 Result on: [Any]
 Build chosen for execution

Apply | Reset Filters | Advanced Filters

- Test Project Assignment / Test Project Assignment (3)(2, 0, 1, 0)
 - Functionality Testing (2)(2, 0, 0, 0)
 - 1-2 Test the Search Functionality in Stock Market
 - 1-3 Test the various functions functionality in user's profile in Stock Market
 - User Interface Testing (1)(0, 0, 1, 0)

Test Results on Build 'Test Build'

Test plan notes
 Build description
 Print | Show complete execution history | Import XML Results

Test Suite : User Interface Testing/
 Test Case ID 1-1 :: Version : 1
 Test the Login Functionality in Stock Market
 Assigned to : admin

Last execution (any build) - Build : Test Build
 Date : 30/08/2024 10:44:44 - Tested by : admin - Build : Test Build - Status : Failed

Last execution (current build) - Build : Test Build

Date	Build	Tested by	Status	Test Case Version	attachments	Run mode
30/08/2024 10:44:44	Test Build	admin	Failed	1		

Summary
 Verify on entering valid userid and password, the customer can login

Preconditions
 Precondition steps:

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
...

b)Manually test each test case for Functional interface Testing

TestLink 1.9 (Prague) : admin [admin] [My Settings | Logout]

Project | Test Specification | Test Execution | Test Reports | User Management | Events | 1-

Test Project | Test Project Assignment

Test Plan : Test Project Assignment [Build : Test Build]

Settings

Test Plan: Test Project Assignment
Build to execute: Test Build
Update tree after every operation: ☒
Export Test Plan

Filters

Test Case ID: 1-
Test Case Title:
Test Suite:
Execution type: [Any]
Assigned to: [Any]
☐ Include unassigned Test Cases
Result on: [Any]
Build chosen for execution

Apply Reset Filters Advanced Filters

- Test Project Assignment / Test Project Assignment (3)(1, 0, 2, 0)
- Functionality Testing (2)(1, 0, 1, 0)
- User Interface Testing (1)(0, 0, 1, 0)
- 1-1 Test the Login Functionality in Stock Market

Test the Search Functionality in Stock Market

Assigned to : admin

Last execution (any build) - Build : Test Build

Date : 30/08/2024 10:45:08 - Tested by : admin - Build : Test Build - Status : Failed

Last execution (current build) - Build : Test Build

Date	Build	Tested by	Status	Test Case Version	attachments	Run mode
30/08/2024 10:45:08	Test Build	admin	Failed	1		

Summary

Verify on searching stock, the information is displayed

Preconditions

Precondition steps:

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Stock name	Stock information should be displayed	Can't get the information of the particular stock	Fail
2	Adding stock to profile by searching	Stocks added to users account	User's profile has no stocks	Fail

Execution type : Manual

Notes / Description

Result

☒ Not Run
☐ Passed
☐ Failed

TestLink 1.9 (Prague) : admin [admin] [My Settings | Logout]

Project | Test Specification | Test Execution | Test Reports | User Management | Events | 1-

Test Project | Test Project Assignment

Test Plan : Test Project Assignment [Build : Test Build]

Settings

Test Plan: Test Project Assignment
Build to execute: Test Build
Update tree after every operation: ☒
Export Test Plan

Filters

Test Case ID: 1-
Test Case Title:
Test Suite:
Execution type: [Any]
Assigned to: [Any]
☐ Include unassigned Test Cases
Result on: [Any]
Build chosen for execution

Apply Reset Filters Advanced Filters

- Test Project Assignment / Test Project Assignment (3)(0, 0, 3, 0)
- Functionality Testing (2)(0, 0, 2, 0)
- User Interface Testing (1)(0, 0, 1, 0)
- 1-1 Test the Login Functionality in Stock Market

Build description

Print Show complete execution history Import XML Results

Test Suite : Functionality Testing/

Test Case ID 1-3 :: Version : 1

Test the various functions functionality in user's profile in Stock Market

Assigned to : admin

Last execution (any build) - Build : Test Build

Date : 30/08/2024 10:45:32 - Tested by : admin - Build : Test Build - Status : Failed

Last execution (current build) - Build : Test Build

Date	Build	Tested by	Status	Test Case Version	attachments	Run mode
30/08/2024 10:45:32	Test Build	admin	Failed	1		

Summary

Verify on different functions from the menu, the information is displayed

Preconditions

Precondition steps:

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Click on notification icon	Notifications should get displayed	Nothing is displayed	Fail
2	Click on credit card section from card types	Credits cards details should be mentioned	Nothing is displayed	Fail
3	Click on loans section from lending	Loans details should be mentioned	Nothing is displayed	Fail
4	Click on pay now option	Payments methods should be displayed	Nothing is displayed	Fail