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TestLink

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Introduction: -

TestLink is a web-based test management tool that enables us to create and manage test cases, as well as organize them into test plans. These test plans allow team members to execute test cases and track test results, generate reports, trace software requirements, prioritize and assign tasks.

The History: -

TestLink was created by Chad Rosen, a software developer for Good Technology in the early 2000s. Rosen came up with the idea of creating TestLink after he encountered difficulties manually tracking test results.

Desiring an easier method, Rosen and his Manager Mike Belshe programmed TestLink. Afterwards, Good Technology gave permission to release the TestLink software as open source starting September 25, 2003.

Explanation: -

As mentioned earlier TestLink is a web-based management tool, but what does it do exactly? It is primarily used to create, maintain, and manage tests and test cases, but it also provides support for automated and manual execution of test cases.

The user can generate test plans and test reports quickly with this tool. It supports test reports in multiple formats such as Excel, MS Word, and HTML formats. Additionally, since it is a web-based tool, multiple users can access its functionality at the same time with their credentials and assigned roles.

There are a bunch of advantages to using TestLink, including the fact it can support multiple projects, easy to export and import test cases, easy filtration of test cases with version, keywords and test case ID, can easily generate test plans and reports in various formats, and provide credentials for multiple users and assign roles to them.

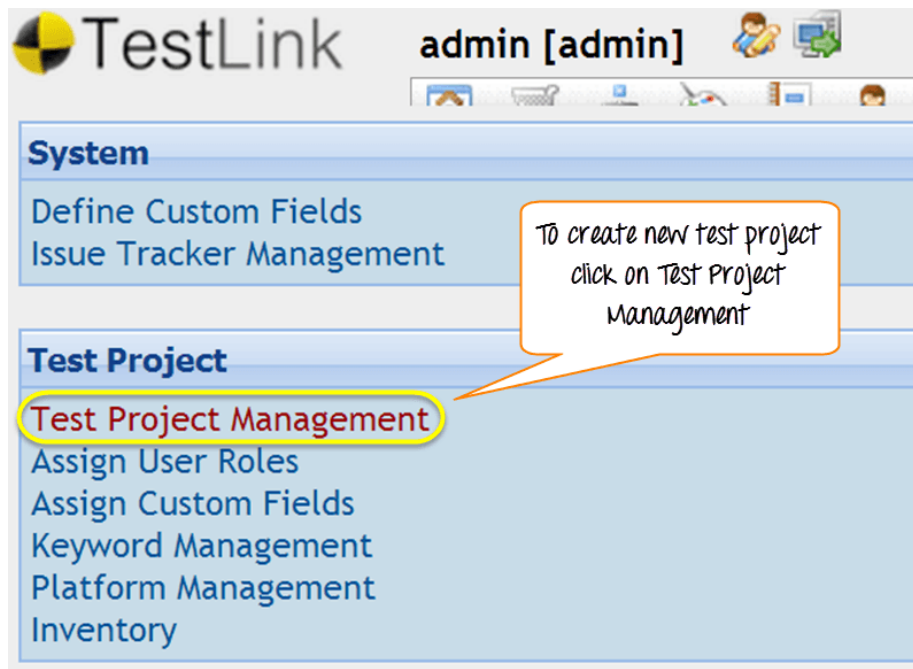
How to use: -

First things first you need to **log** into TestLink. This can be done by opening the TestLink homepage and entering the login details, userID and password.



The image shows the TestLink login interface. At the top, a blue header bar contains the text "Please log in ...". Below this, the "Login" section has two input fields: "Login" (containing "admin") and "Password" (containing "....."). A red circle with the number "1" is next to the "Login" field, and a red circle with the number "2" is next to the "Password" field. A red circle with the number "3" is next to the "Log in" button. A speech bubble points to the "Password" field with the text "Enter your user ID and password to login".

Afterwards you would want to create a **Test Project**. This can be done by clicking on Test Project Management which is in the main window, and it will open another window.



From this new window you should click on the tab "create" to create a new project.

You need to enter all the required fields in the window such as category for a test project, name, prefix, description, and so on and so forth. After filling in all the necessary details, click on “create” at the end of the window.

The screenshot shows a form titled "Create from existing Test Project?". It has several sections: "Name *", "Prefix (used for Test case ID) *", "Description", "Enhanced features", "Issue Tracker Integration", and "Availability".

- 1. A dropdown menu for "Test_demo_Project".
- 2. A text input field for "Name *" containing "Guru 99 -".
- 3. A text input field for "Prefix (used for Test case ID) *" containing "GU".
- 4. A rich text editor for "Description" containing "The project is to check Guru 99 home-page login functionality".
- 5. A list of checkboxes under "Enhanced features": Requirements, Testing Priority, Test Automation (API keys), and Inventory, all of which are checked.
- 6. A checkbox for "Active" under "Issue Tracker Integration", which is unchecked.
- 7. A dropdown menu for "Issue Tracker" under "Issue Tracker Integration".
- 8. A "Create" button at the bottom left, which is circled in red.

A speech bubble points to the "Create" button with the text: "This will create a project for GURU 99 successfully".

This will create your project “Guru99” successfully.

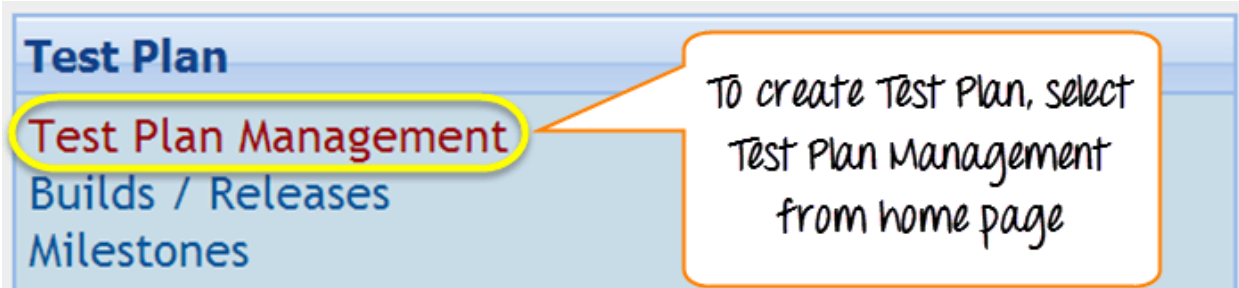
The screenshot shows a table with the following columns: Name, Description, Prefix, Issue Tracker, Requirement Feature, Active, Public, and delete. The table contains one entry for "Guru 99 -".

Name	Description	Prefix	Issue Tracker	Requirement Feature	Active	Public	delete
Guru 99 -	The project is to check Guru 99 home-page login functionality	GU					

A speech bubble points to the "Guru 99 -" entry with the text: "Guru 99 project is created successfully".

Test Plans hold complete information like the scope, milestone, and test cases. Once you have created a test project, the next step is to create a **Test Plan**.

The first step is to click on Test Plan Management from the home page. It will open another page, where you'll need to click on "create" at the bottom of the page.



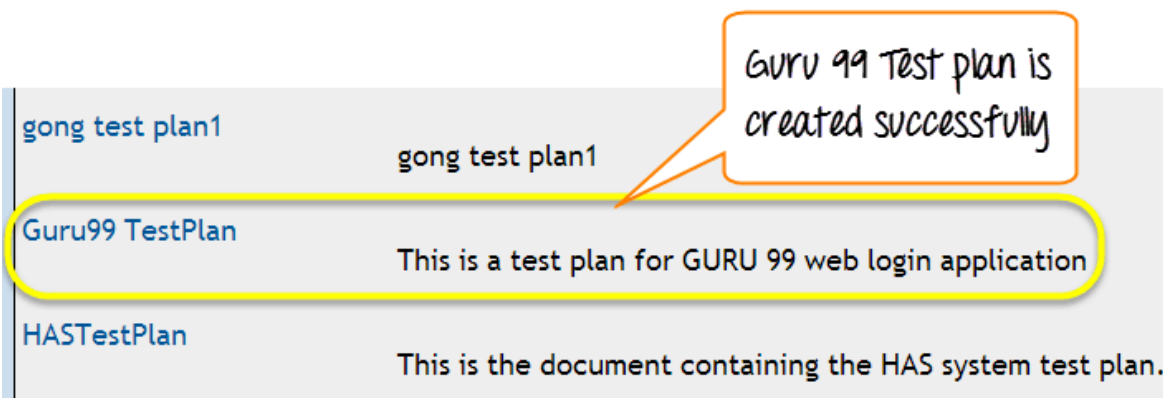
Fill out all the necessary fields such as name, description, etc. in the open window, and click on "create tab".

The screenshot shows the "Test Plan Management - Test Project Test Dec 2014" form. It has several fields and buttons:

- Name:** "Guru99 TestPlan" (annotated with a red circle 1).
- Description:** A text area containing "This is a test plan for GURU 99 web login application" (annotated with a red circle 2).
- Create from existing Test Plan?:** "No" (annotated with a red circle 3).
- Active:** ☒ (annotated with a red circle 4).
- Public:** ☒ (annotated with a red circle 4).
- Buttons:** "Create" and "Cancel" (both annotated with a red circle 4).

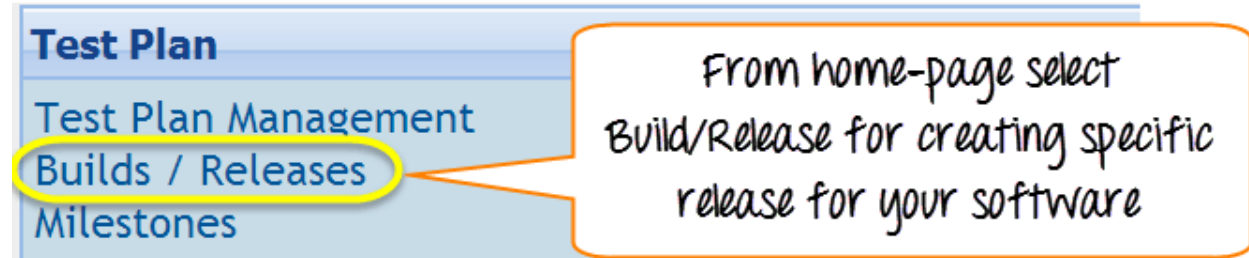
A speech bubble points to the "Create" button with the text: "Fill out all the necessary details and click on 'create' tab".

Guru99 Test Plan is created successfully.



Now that you have created your Test Plan, you'll need to make a **Build** for it. A build is a specific release of a software.

Firstly on the home page, you'll need to click on Builds/Releases under Test Plan.



Afterwards you will fill in all the necessary details for a software release and click on release to save it.

1. Enter the title name.
2. Enter the description about the software release.
3. Mark the checkbox for status "Active".
4. Mark the checkbox for status "Open".
5. Choose the date of release.
6. Click on "create".

Once you have a release the software will appear like this.

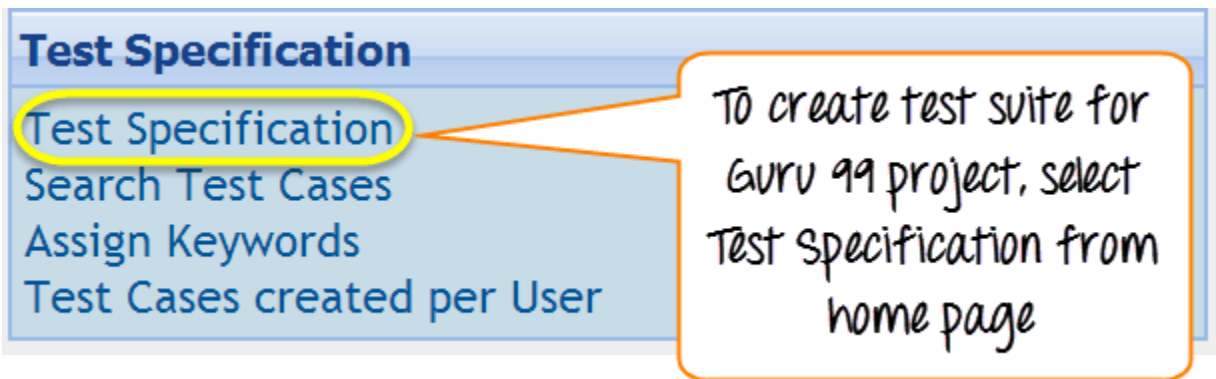
Title	Description
Guru 99- sample build	This is a sample build for Guru 99 web application
Test Build	Just for testing
samplebuild	this is sample build

A callout box with an orange border points to the first row of the table, containing the text: 'Sample build for Guru 99 is created successfully'.

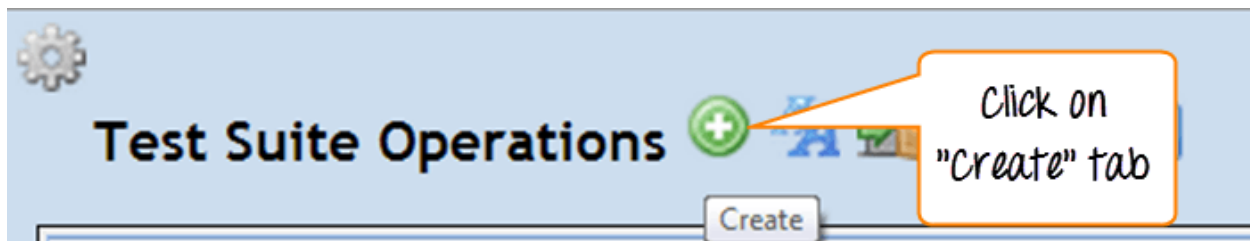
Let's assume that you created multiple Test Cases, how can you organize them properly? Introducing **Test suites**.

Test suites are a collection of Test Cases which may be testing or validating the same component.

Begin by clicking on “test specification” from the home page.



On the right-hand side of the panel, click on the settings icon. It will display a series of test operations. Click on the “create” tab for the test suite.

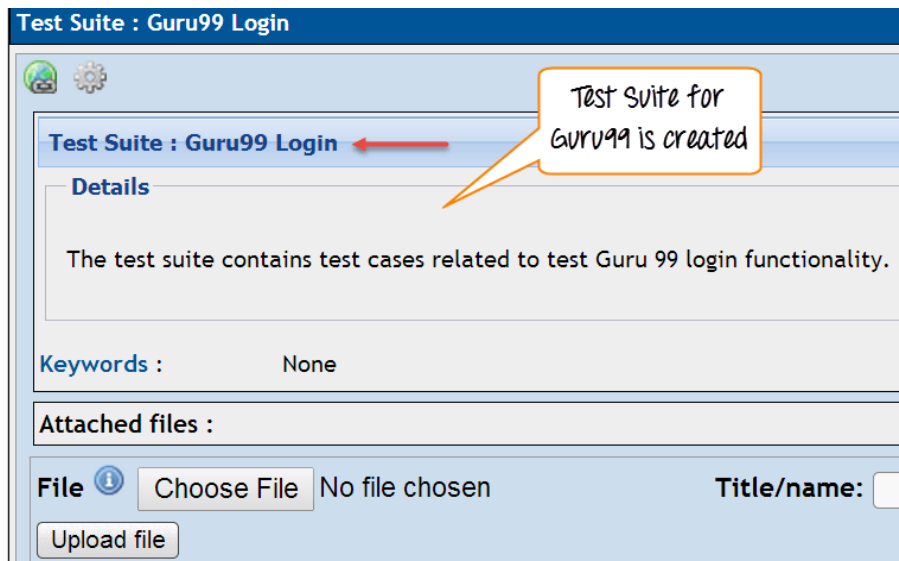


Then you need to fill in all the details needed for the test suite and click “save”.

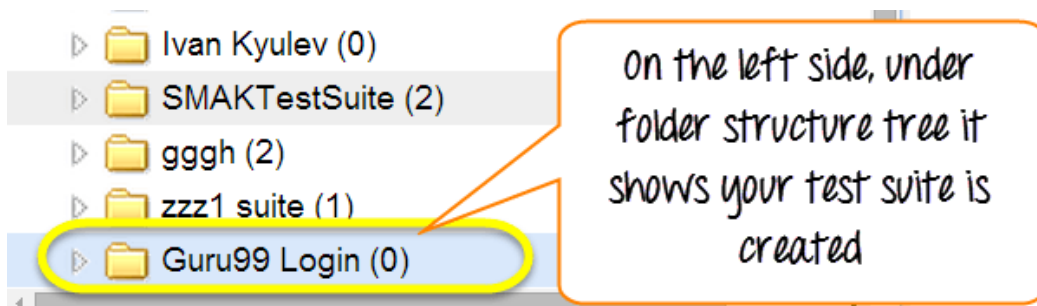
1. Enter the test suite name.
2. Enter the details about your test suite.
3. Click on the save button to save the details of the test suite.

The screenshot shows a form for creating a test suite. At the top are "Save" and "Cancel" buttons. Below is a "Test Suite Name" field containing "Guru99 Login", with a red circle and the number "1" next to it. Under the "Details" section, there is a text area containing "The test suite contains test cases related to test Guru 99 login functionality.", with a red circle and the number "2" next to it. Below the text area is a "Keywords" section with a list of keywords: "2G Removal", "2G-Only RAT Support", "3G RAT Support", "Componente", "DOM", "DVM", "hfujdhfkujdyrfjdkhfud", and "HSDPA". A red circle and the number "3" are next to the "Save" button at the bottom. A callout bubble points to the keywords list with the text: "Fill up all the required details for test-suite and save it".

You can see the test suite for Guru99 is created. Your test suite appears on the left side of the panel under folder structure tree.



Now we move onto creating a **Testcase**, it can hold a sequence of test steps to test a specific scenario with an expected result. In order to create a testcase, first we need to click on the test suite folder on the left side of the panel under a folder tree structure.



Click on the "settings" icon in the right side panel and a list of test case operations will be displayed on the right side panel. A new window will open, to create test cases click on the "create a" button in test case operations.



Then you will need to enter the details in the test case specifications page.

Test Suite : Guru99 Login - Create Test Case

Create Cancel ☐ check to create another test case after saving

Test Case Title
Check Guru99 login information

Summary

The test case is to check the login functionality of Guru 99 home-page

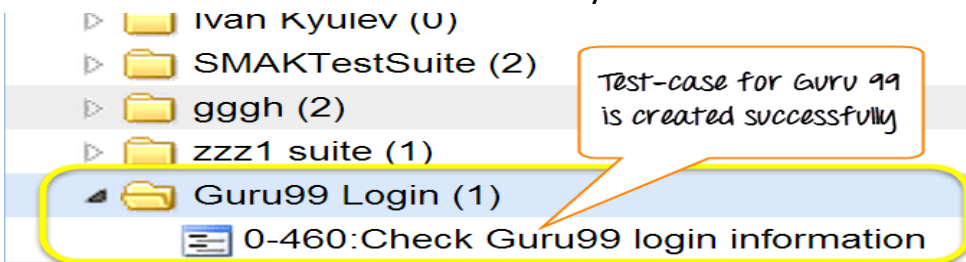
body p

Preconditions

1. The user should be connected to the internet
2. User should have valid user#id and password

Enter the details for the test case

After entering the details, click on the “create” button to save the details. The test case for GURU99 is created successfully.



Click on “test case” from the folder, as shown above, it will open a window. Click on “create steps” button in a test case. It will open a test case step editor.

Test Case

0-460:Check Guru99 login information

Version 1

Summary

The test case is to check the login functionality of Guru 99 home-page

Preconditions

1. The user should be connected to the internet
2. User should have valid user#id and password

Create step

Status : Draft Importance : Medium Save

Another window will open on the same page, in that window you have to enter the following details:

1. Enter the step-action for your test case.
2. Enter the details about the step action.
3. Click save it and add another step action or click save and exit tab if there are no more test steps to add.

0-460 : Check Guru99 login information

Version 1

Summary

The test case is to check the login functionality of Guru 99 home-page

Preconditions

1. The user should be connected to the Internet
2. User should have valid user#id and password

Save Save & exit Cancel

#	Step actions	Expected Results	Execution
1	Open Guru 99 website	The website should be opened	Manual

Save Save & exit Cancel

Once you save and exit the test step, it will appear like this.

Version 1

Summary

The test case is to check the login functionality of Guru 99 home-page

Preconditions

1. The user should be connected to the internet
2. User should have valid user#id and password

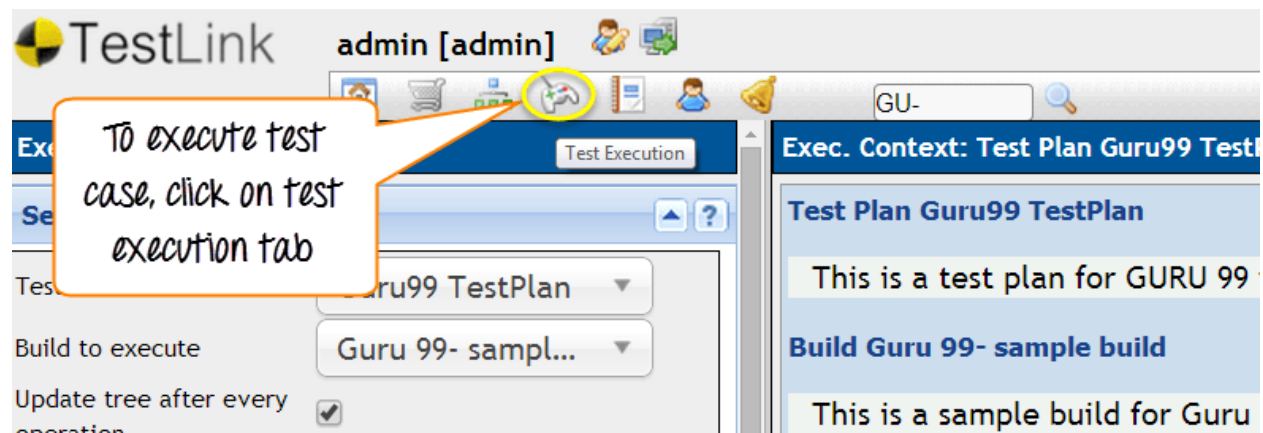
#	Step actions	Expected Results	Execution		
1	Open Guru 99 website	The website should be opened	Manual	✖	+
2	Enter username in the username textbox	Text-box should accept the entered data	Manual	✖	+
3	Enter password in the password text-box	Text-box should accept the entered data	Manual	✖	+
4	Click on "sign in" button	Login should success and navigate to the home page	Manual	✖	+

Example: -

Now that we have created a test case and everything related to it above, we can finally start **executing a test case**.

In TestLink, we can run a test case and change the execution status of a test case. The status of a test case can be set to “blocked” “passed”, or “failed”. Initially, it will be in “not run” status but once you have updated it, it cannot be altered to “not run” status again.

First things first we need to click on the “Test Execution” link which is housed in the navigation bar. It will direct you to the Test Execution panel.



Pick the test case you want to run from the left side panel. Once you have selected the test cases; it will open a window.

#	Step actions	Expected Results	Execution	Execution notes	Result
1	Open Guru 99 website	The website should be opened	Manual		
File Choose Files No file					
2	Enter username in the username textbox	Text-box should accept the entered data	Manual		
File Choose Files No file chosen					
3	Enter password in the password text-box	Text-box should accept the entered data	Manual		
File Choose Files No file chosen					
4	Click on "sign in" button	Login should success and navigate to the home page	Manual		

You can enter the notes related to execution and select the status from the drop down for the test case

Now you must follow these steps:

1. Enter the notes related to test case executed.
2. Select its status.

File Choose Files No file chosen

2 Enter username in the username textbox Text-box should accept the entered data Manual When user name is entered in the username, it accepts the entered data

Passed

File Choose Files No file chosen

On the same page, you must fill in a similar detail about the execution of test-case. Fill in the details, select status, and then click on “save execution”.

Test Results on Build Guru 99- sample build

Print Show complete execution history Import Results (XML)

Test Plan Guru99 TestPlan

Build Guru 99- sample build

Test Suite : Guru99 Login/

Latest execution (any build)

Date : 16/01/2015 10:35:06 - Tested by : admin - Build : Guru 99- sample build - Status : Passed

Latest execution (current build) - Build : Guru 99- sample build

Date	Build	Tested by	Status	Exec (min)	Version	Run mode
16/01/2015 10:35:06	Guru 99- sample build	admin	Passed	1		

Notes

Test executed successfully in Firefox 12, in windows 8 platform

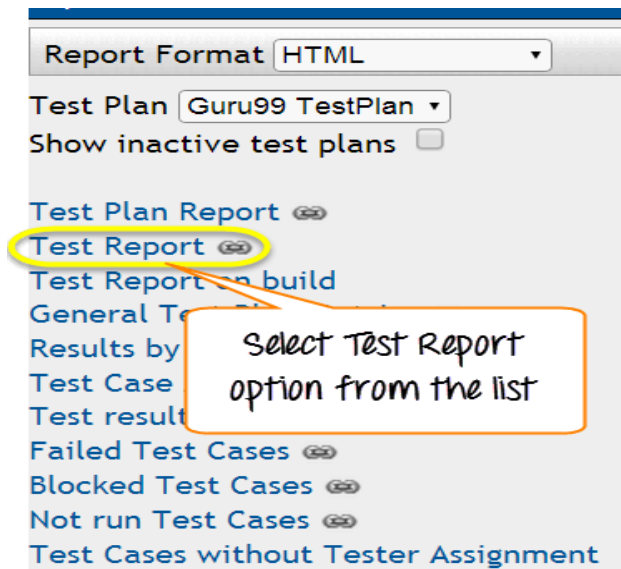
Now that you have executed your first test case, you'll need a report. TestLink supports various test report formats such as HTML, MS word, MS Excel etc.

From the navigation bar, click on Test Reports option.

admin [admin]

Click on "Test Report" icon

From the left side of the panel, select “Test Report” link.



To generate a report, follow these steps:

1. Mark and unmark the option you want to highlight in your test report.
2. Click on your project folder.

