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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: -

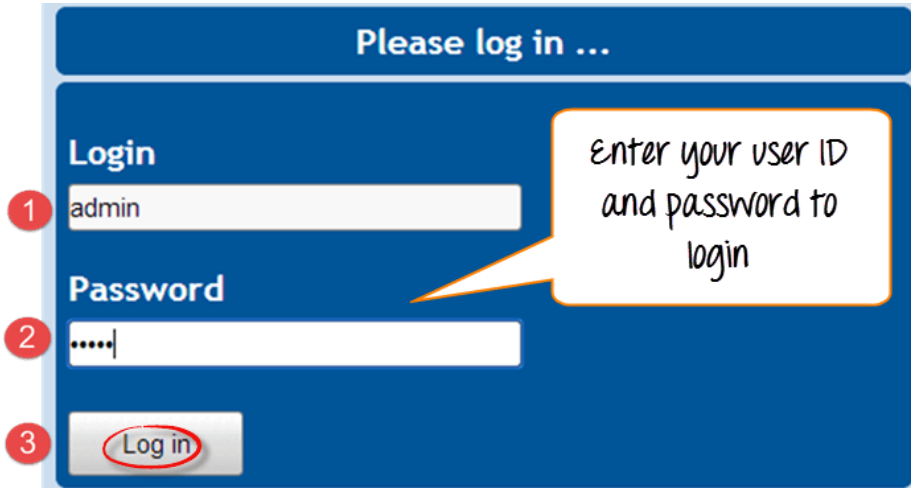
As mentioned earlier TestLink is a web-based management tool, but what does it do exactly? It is primarily used to create, maintain, and manage tests and test cases, but it also provides support for automated and manual execution of test cases.

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.

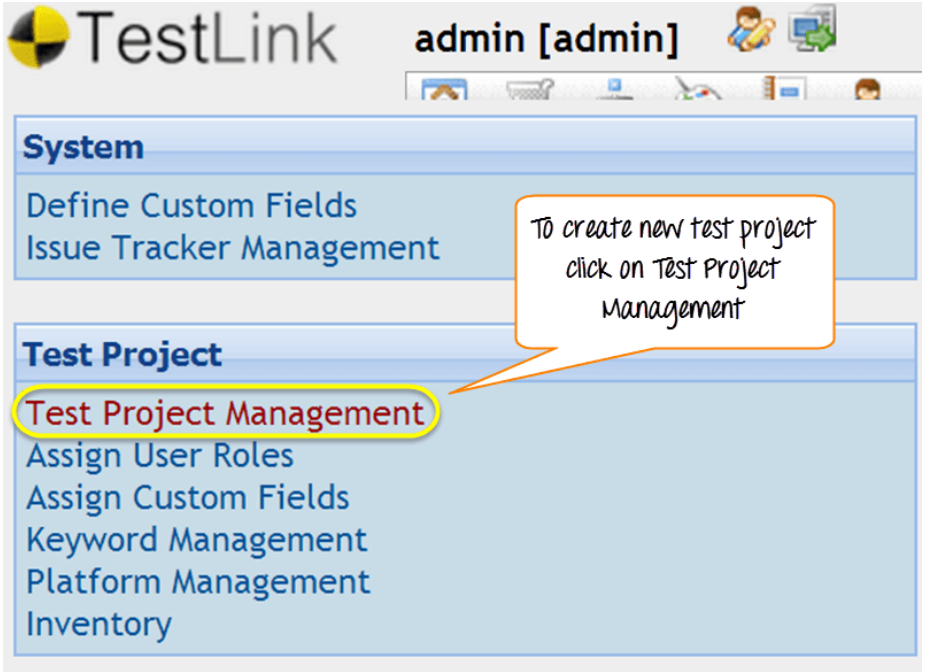
There are a bunch of advantages to using TestLink, including the fact it can support multiple projects, easy to export and import test cases, easy filtration of test cases with version, keywords and test case ID, can easily generate test plans and reports in various formats, and provide credentials for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

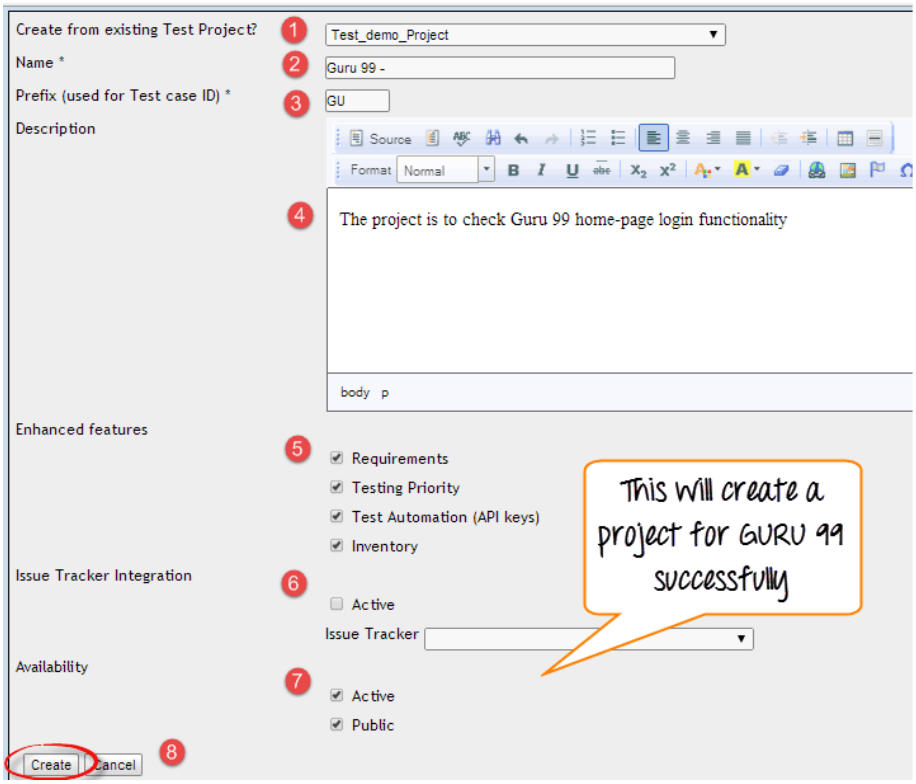


Afterwards you would want to create a **Test Project**. This can be done by clicking on Test Project Management which is in the main window, and it will open another window.

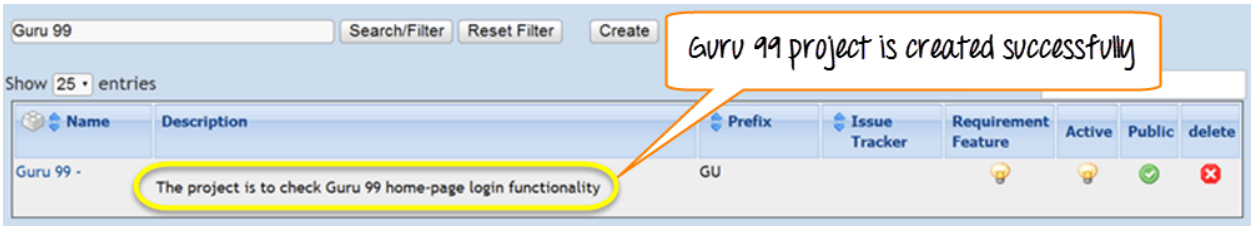


From this new window you should click on the tab “create” to create a new project.

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.



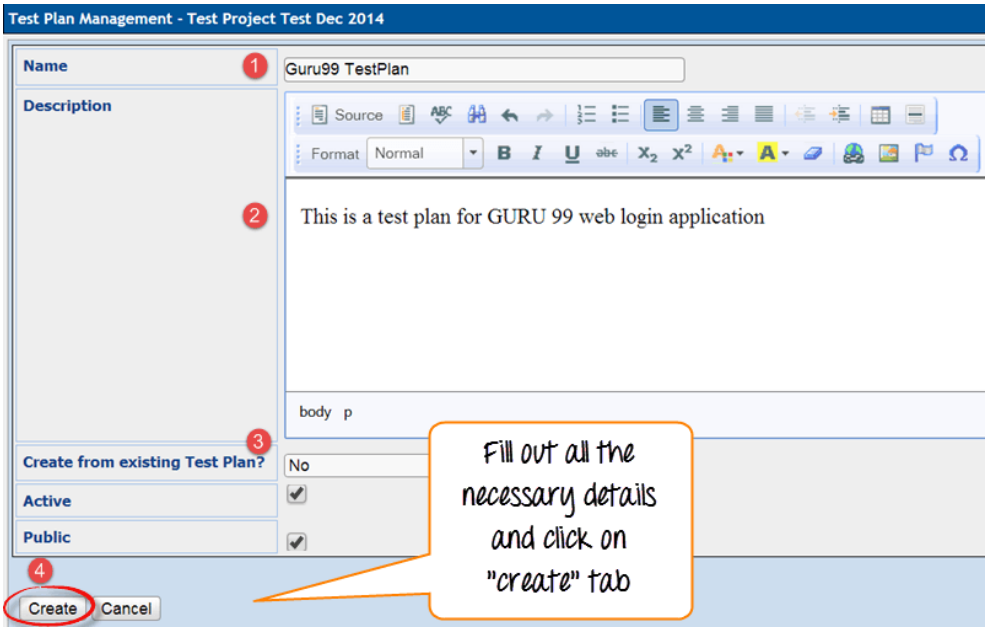
This will create your project “Guru99” successfully.



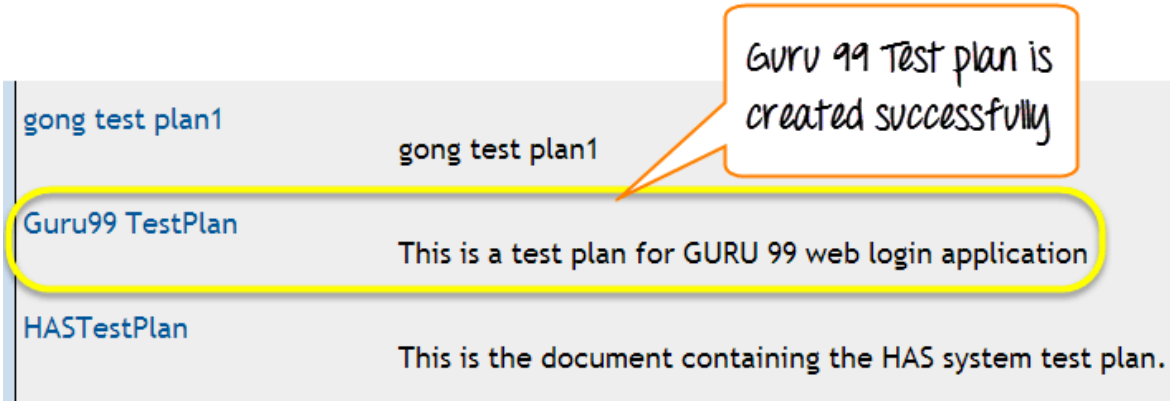
Test Plans hold complete information like the scope, milestone, and test cases. Once you have created a test project, the next step is to create a **<u>Test Plan.</u>**

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".

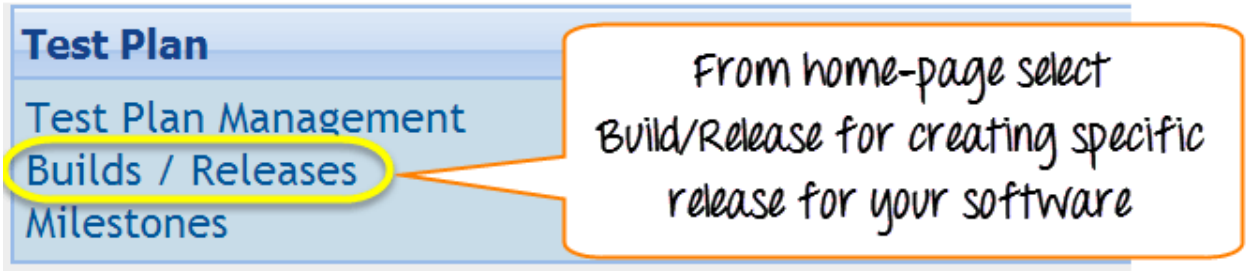


Guru99 Test Plan is created successfully.



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.

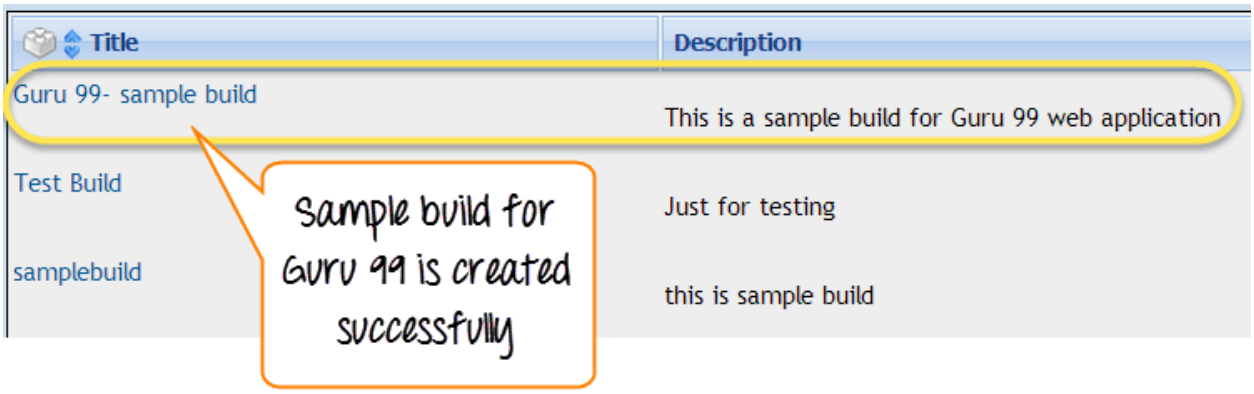
Firstly on the home page, you'll need to click on Builds/Releases under Test Plan.



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".

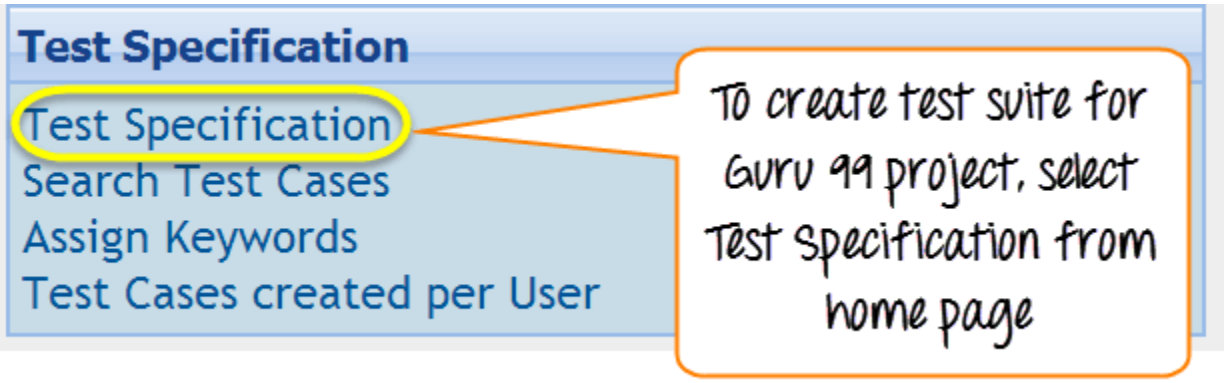
Once you have a release the software will appear like this.



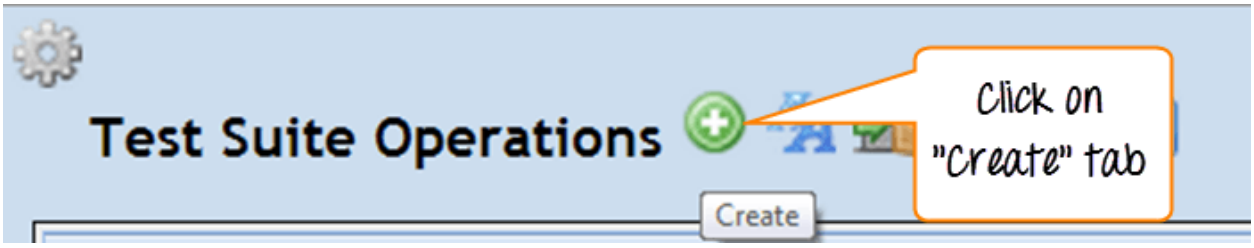
Let's assume that you created multiple Test Cases, how can you organize them properly? Introducing **Test suites**.

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.

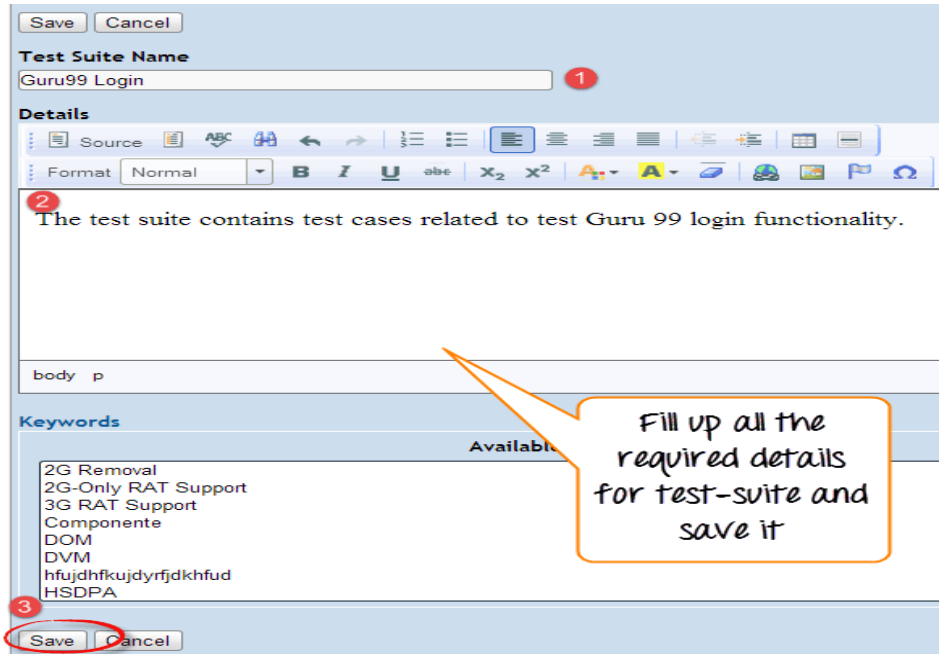


On the right-hand side of the panel, click on the settings icon. It will display a series of test operations. Click on the “create” tab for the test suite.

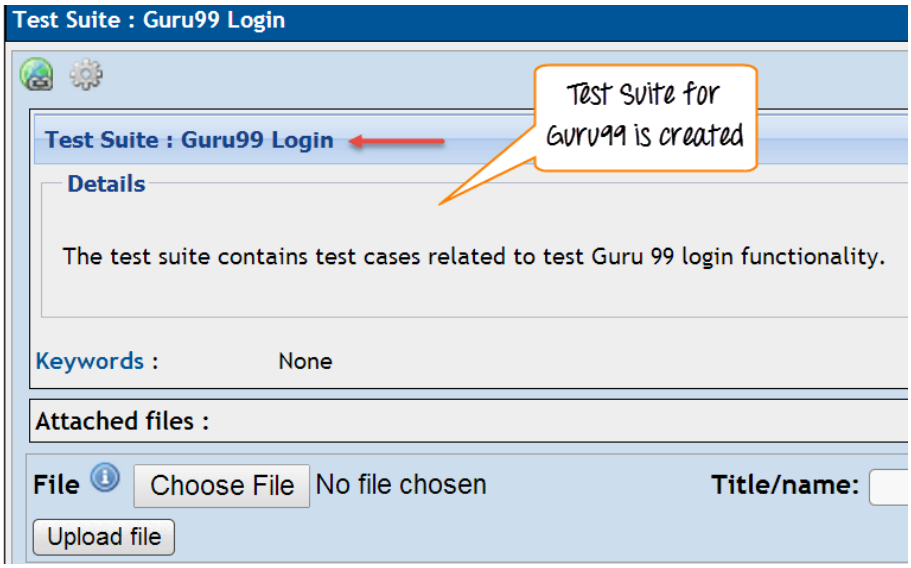


Then you need to fill in all the details needed for the test suite and click “save”.

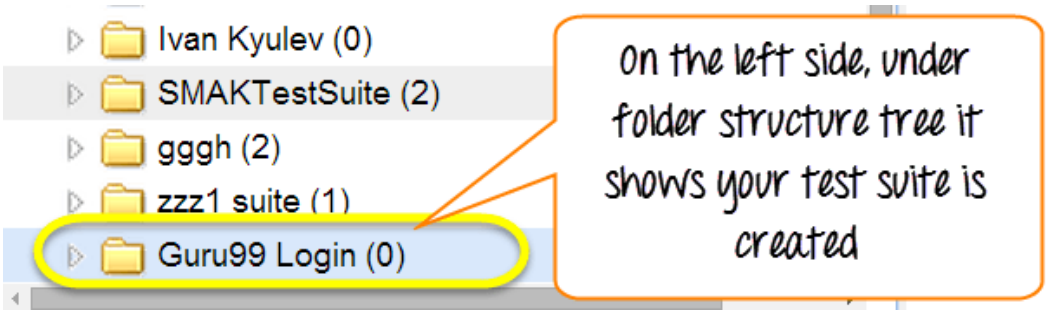
1. Enter the test suite name.
2. Enter the details about your test suite.
3. Click on the save button to save the details of the test suite.



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.

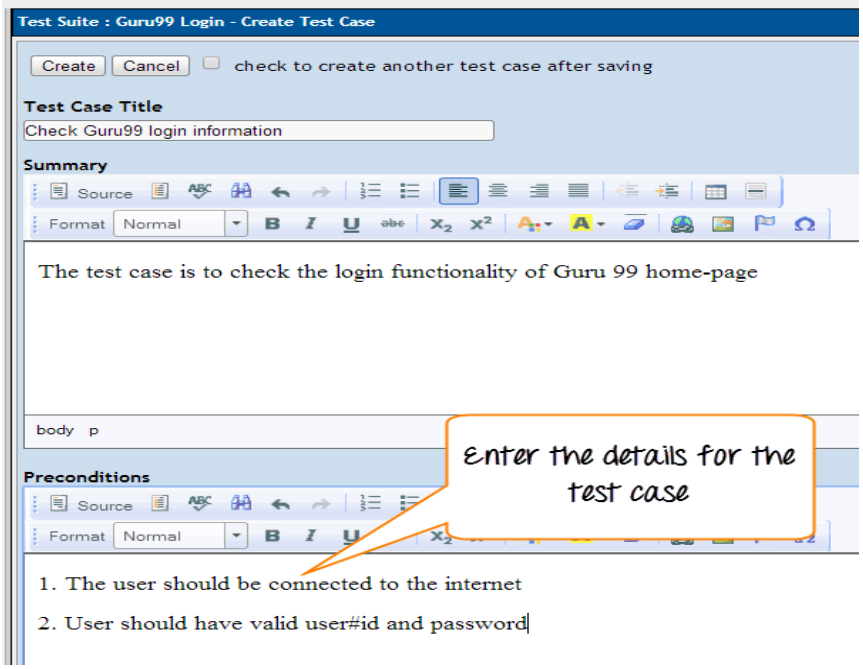


Now we move onto creating a **Testcase**, it can hold a sequence of test steps to test a specific scenario with an expected result. In order to create a testcase, first we need to click on the test suite folder on the left side of the panel under a folder tree structure.

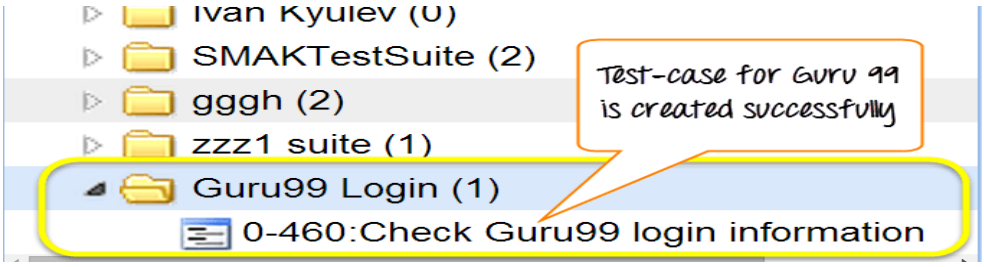


Click on the “settings” icon in the right side panel and a list of test case operations will be displayed on the right side panel. A new window will open, to create test cases click on the “create a” button in test case operations.

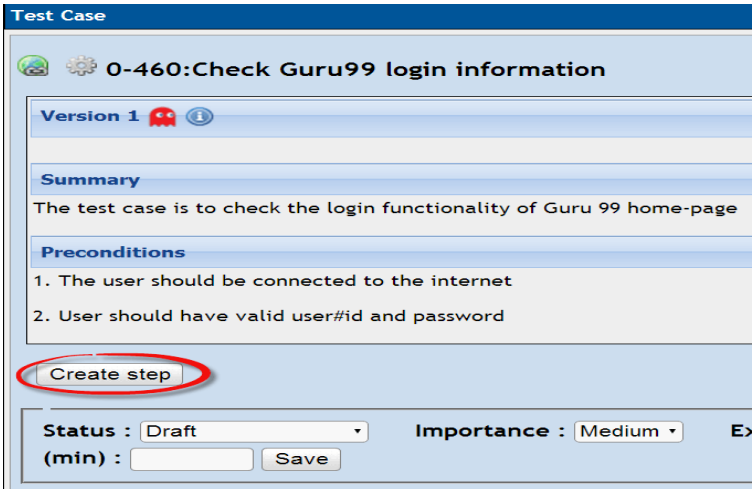
Then you will need to enter the details in the test case specifications page.



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

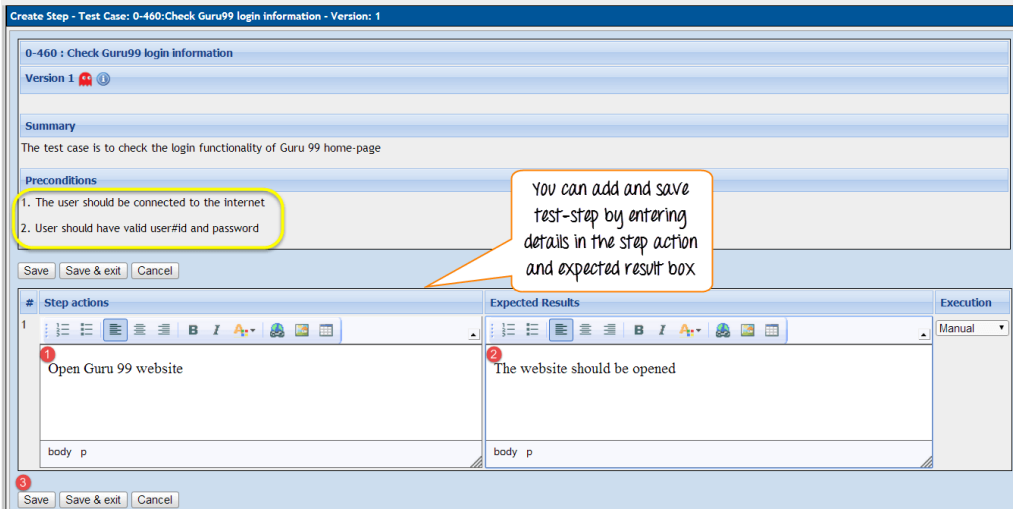


Click on "test case" from the folder, as shown above, it will open a window. Click on "create steps" button in a test case. It will open a test case step editor.

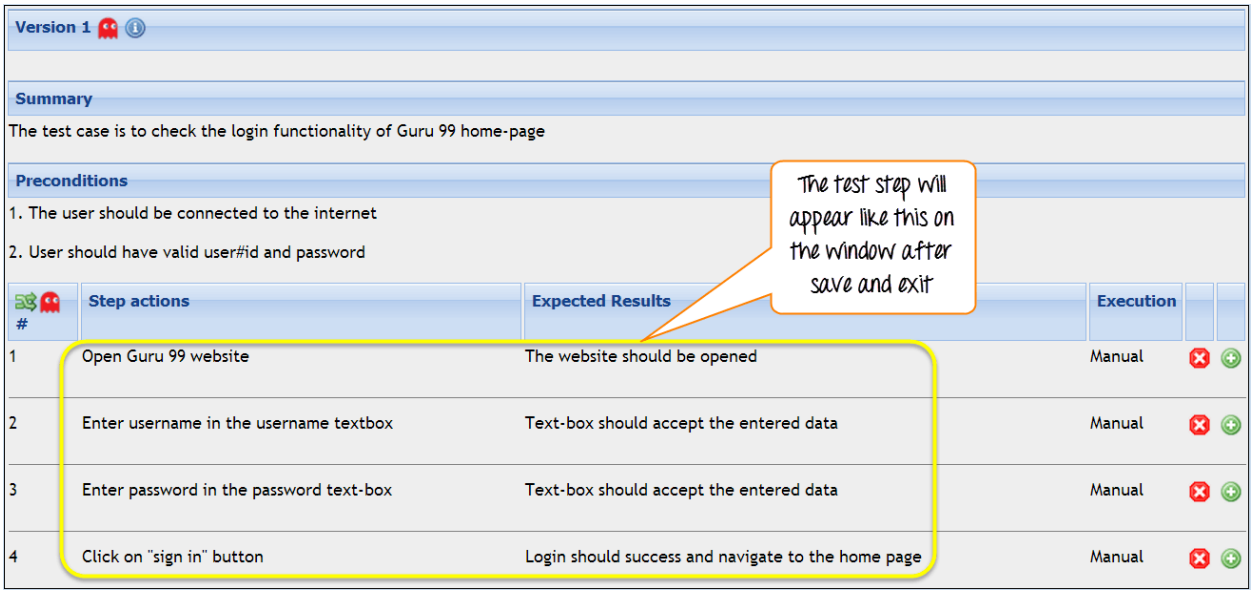


Another window will open on the same page, in that window you have to enter the following details:

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.



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

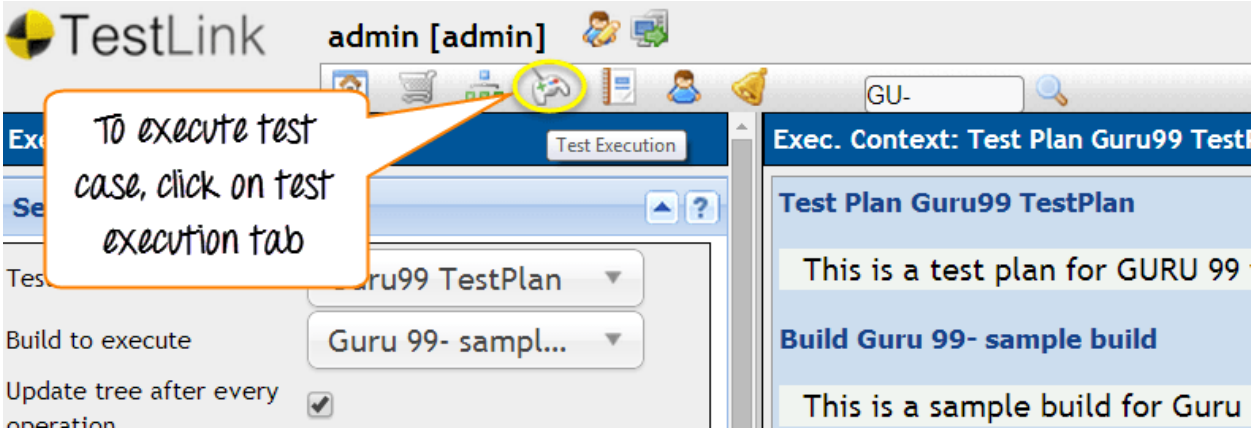


Example: -

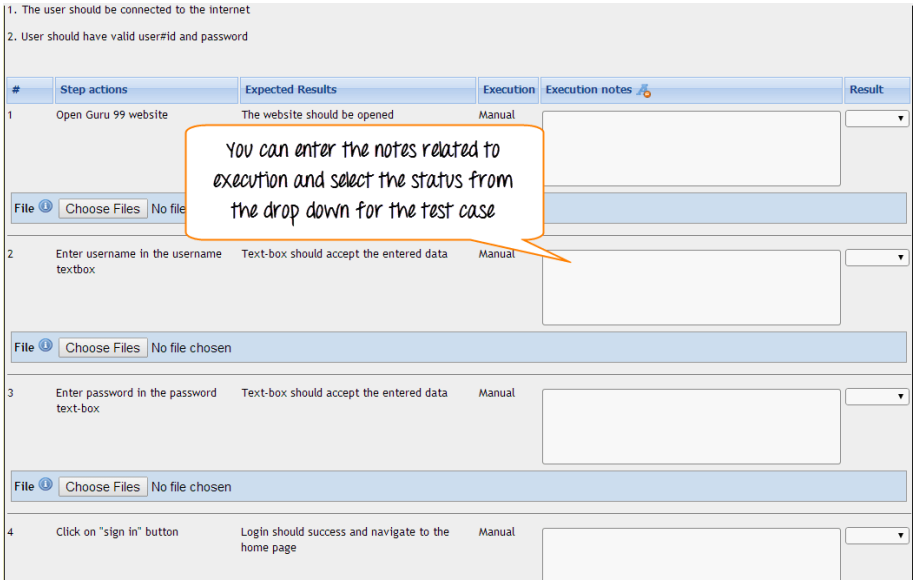
Now that we have created a test case and everything related to it above, we can finally start **executing a test case**.

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.

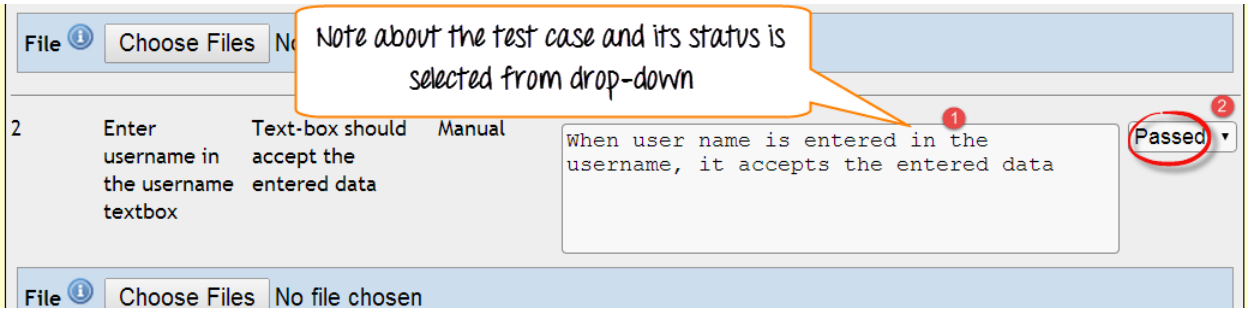


Pick the test case you want to run from the left side panel. One you have selected the test cases; it will open a window.

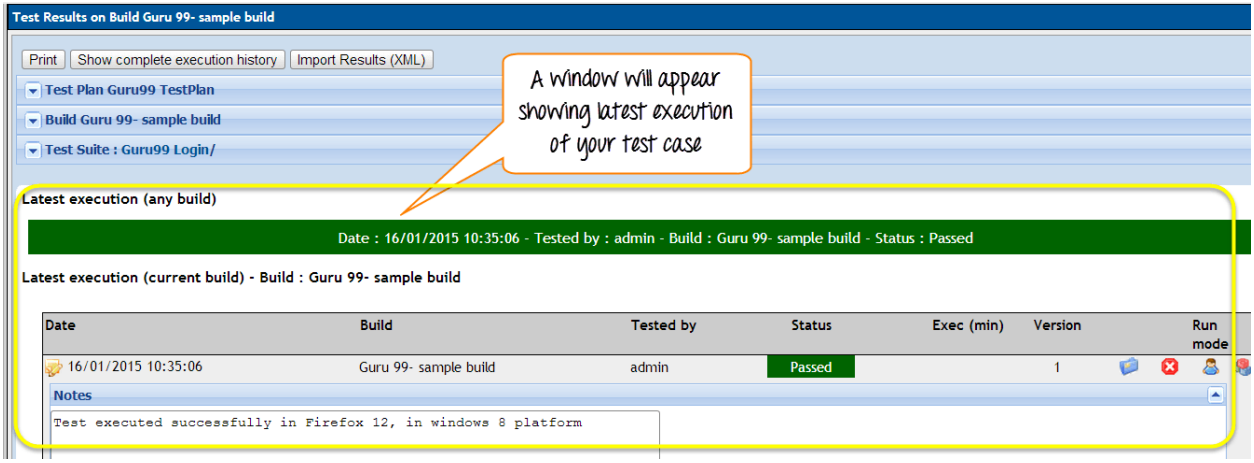


Now you must follow these steps:

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



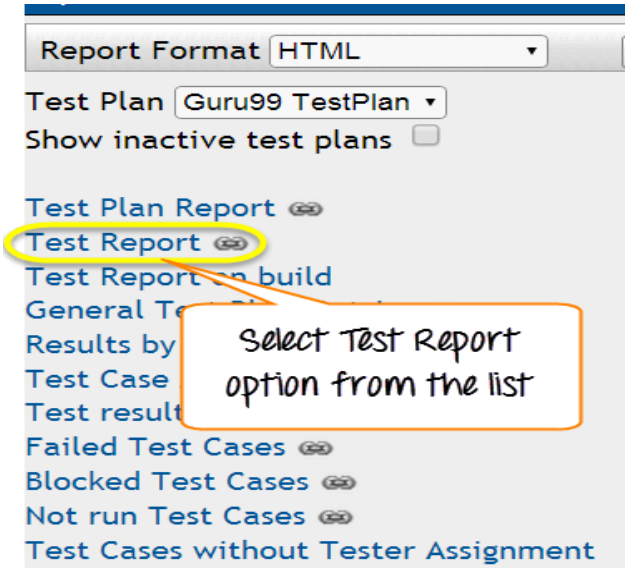
On the same page, you must fill in a similar detail about the execution of test-case. Fill in the details, select status, and then click on “save execution”.



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.

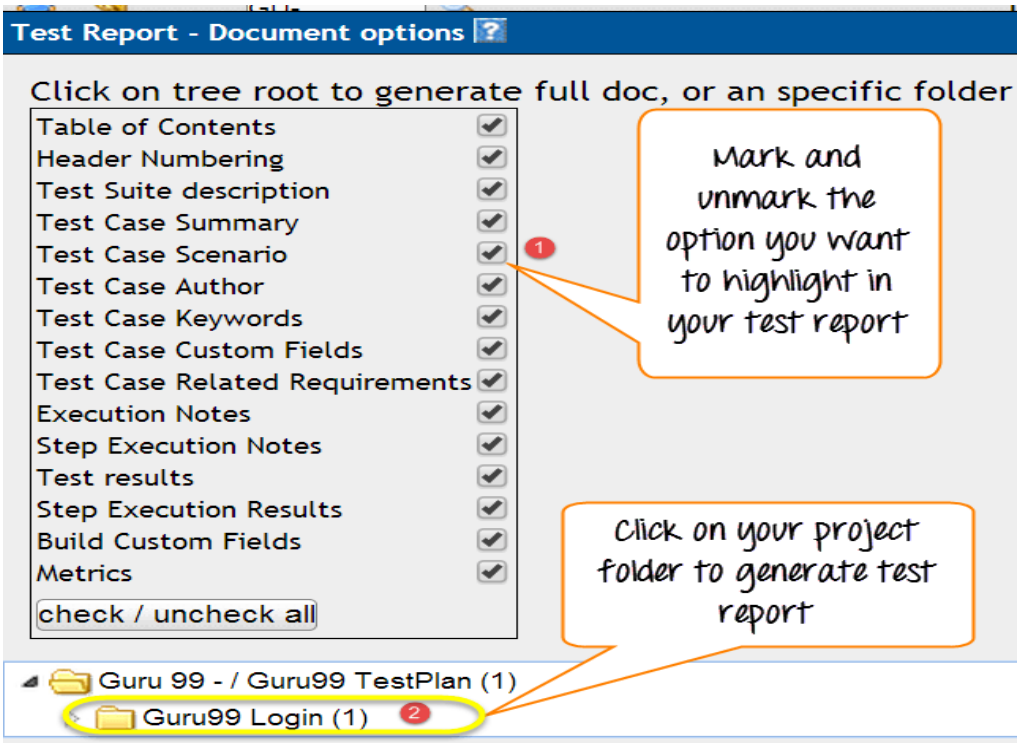
From the navigation bar, click on Test Reports option.

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.



The test report will look like this.

1.1.Test Suite : Guru99 Login

The test suite contains test cases related to test Guru 99 login functionality

Test report with all the details

Test Case GU-1: Check Guru99 login information				
Author:	admin			
Preconditions: 1. The user should be connected to the internet 2. User should have valid user#id and password				
#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Open Guru 99 website	The website should be opened		
2	Enter username in the username textbox	Text-box should accept the entered data	When user name is entered in the username, it accepts the entered data	Passed
3	Enter password in the password text-box	Text-box should accept the entered data		
4	Click on "sign in" button	Login should success and navigate to the home page		
Execution type:	Manual			

Conclusion: -

TestLink is a versatile tool that is quite useful for doing multiple tests at one time and generating reliable reports on which to build your research. It is easy to use and works well for a team or a group of people who wish to operate simultaneously on one or more test cases. You can create Test Projects, Test Plans, Builds, Test suites, Test Cases, Test Plans, Execute Test Cases, and much more.

All in all, a great program that is widely used and recommended by experienced testers.