Lab Exercise – TestLink

SE3010 – SEPQM   **Semester 1**

TestLink is web based test management tool. It synchronizes both requirements specification and test specification together and allows users to create a test project and document the test cases.

Learning objectives

1. Understanding the importance of test management
2. Practicing the tool

System requirements for installation

1. **Web Server** − TestLink supports Apache 2.2.2.1. However, it can work with any latest web server software. TestLink only uses .php file. Hence, configure the web server with .php extension only.

2. **PHP** − The web server should support PHP. It can be installed as CGI or any other integration technology. It is recommended to use 5.3.8 PHP version.

3. **Mandatory PHP Extensions** − Extensions for RDBMS are mysqli, pgsql, oci8, and sqlsrv. Mbstring is required for Unicode – UTF-8 support.

4. Optional Extensions − Curl, GD, and Fileinfo

5. **Database** − TestLink requires database to store its data. MySQL (5.5.16) is recommended.

6. **FileZilla FTP Server** − FileZilla FTP Server 0.9.39 is required to install XAMPP as optional

Step 1:
Go to https://www.apachefriends.org/index.html and click XAMPP for Windows as shown in the following screenshot:

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Step 2:

Run the .exe file to run the installation wizard. After clicking the .exe file, the XAMPP Setup wizard is displayed as shown in the following screenshot. Click Next.
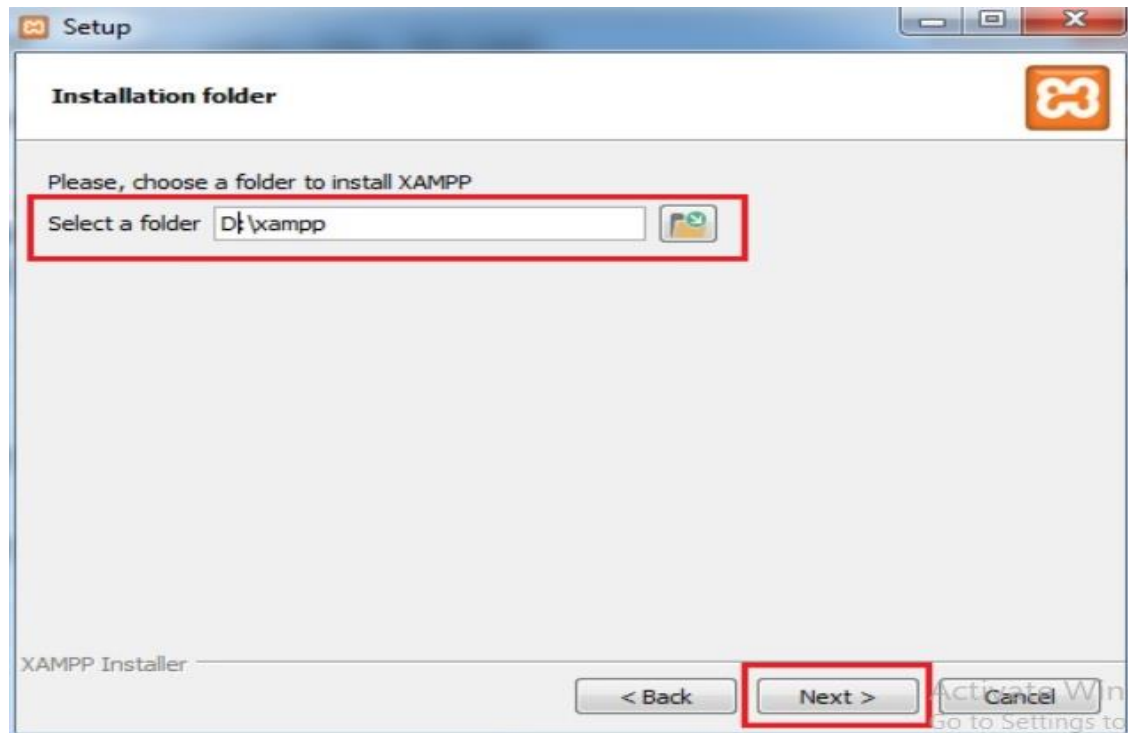
Step 3:

Next, the wizard displays all the component files (as shown in the following screenshot) that will be installed. Click Next after selecting the components.
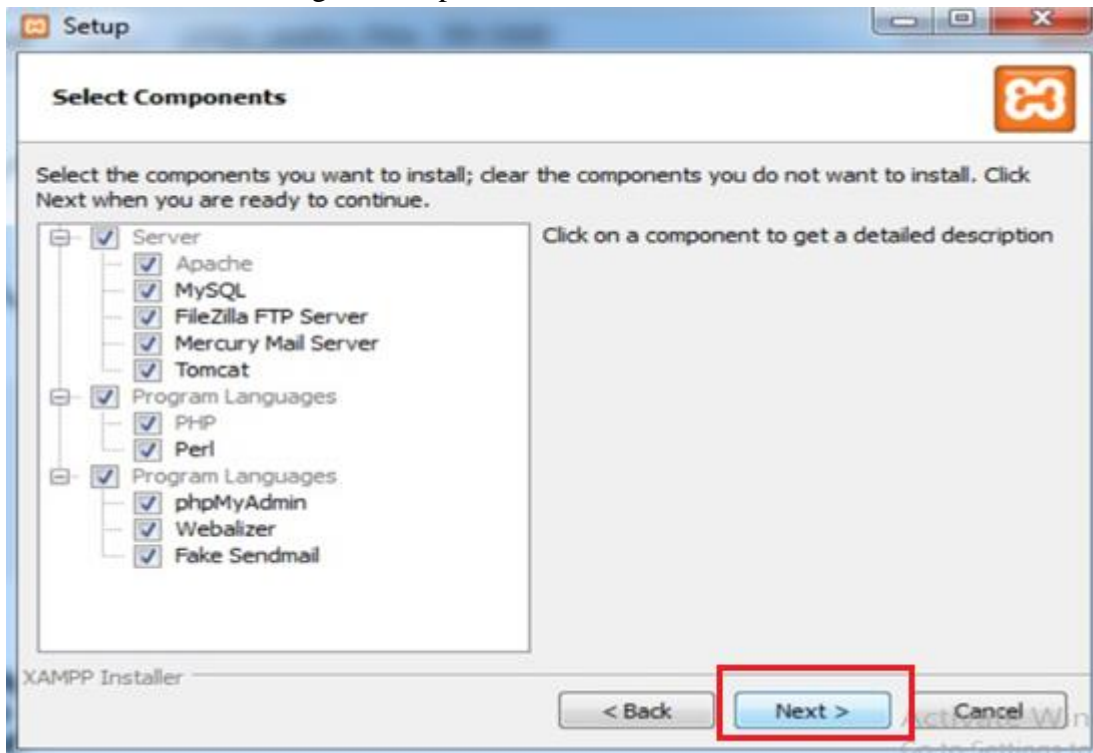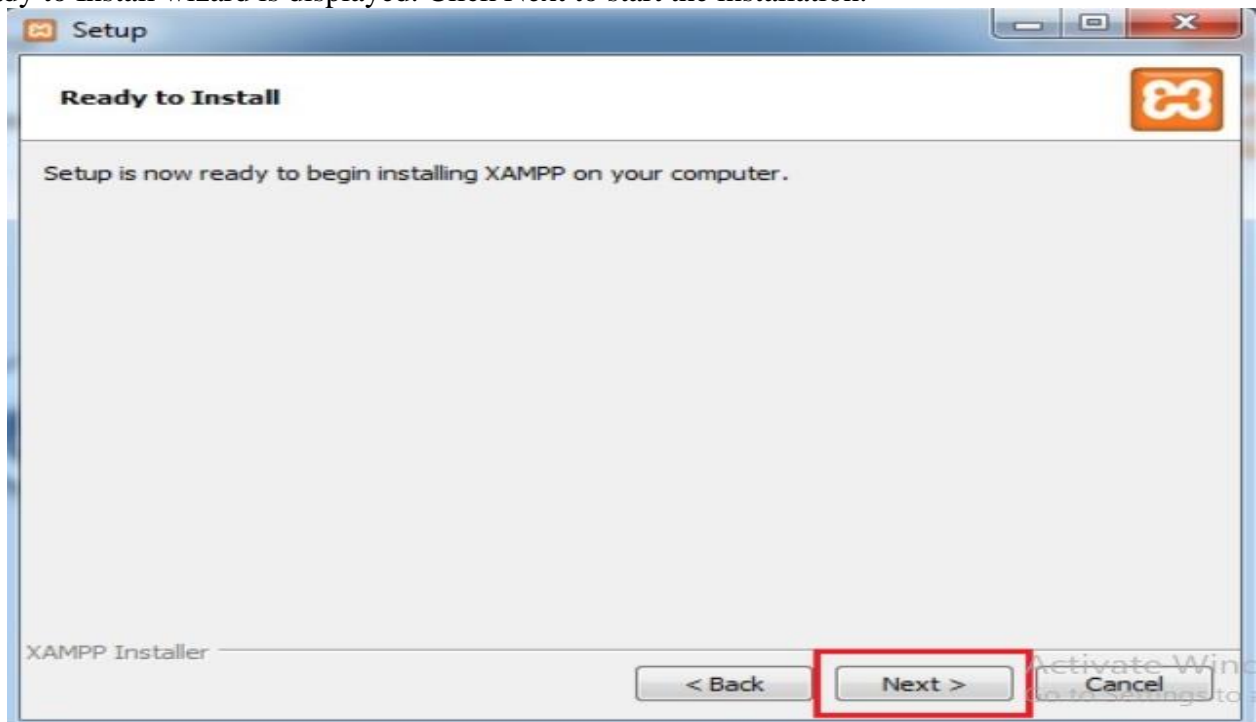
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Step 4:
Provide a folder name where XAMPP will be installed and click Next

Step 5:
Ready to Install wizard is displayed. Click Next to start the installation.
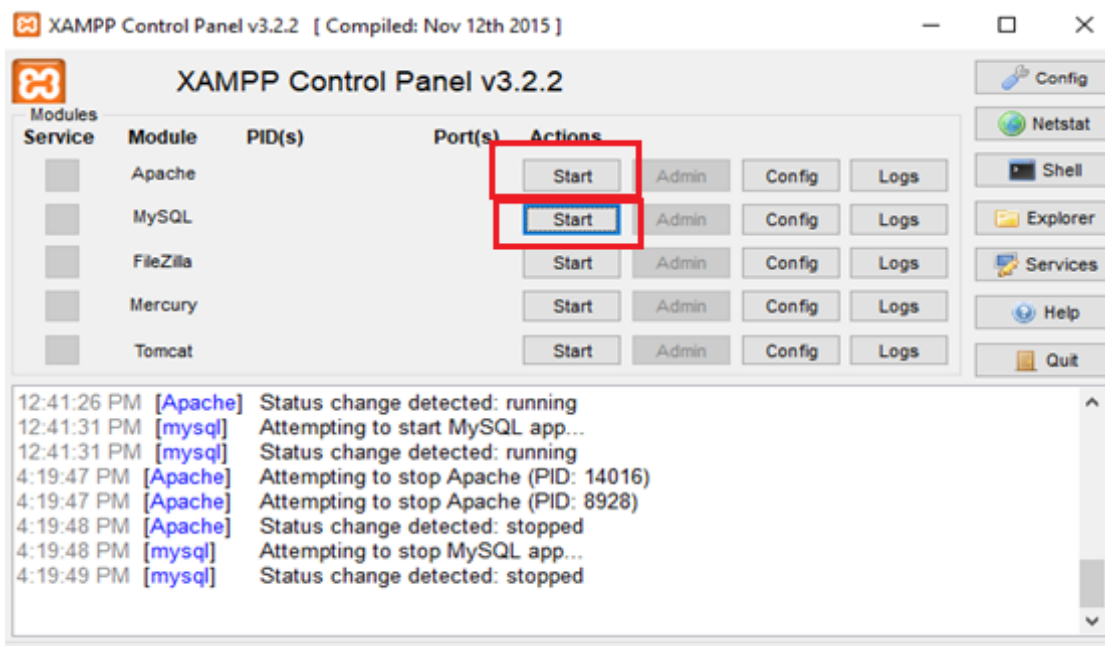
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Step 6:

After successful installation, it will prompt to start the control panel. Select the checkbox and click Finish. It will open the XAMPP control panel as displayed in the following screenshot:
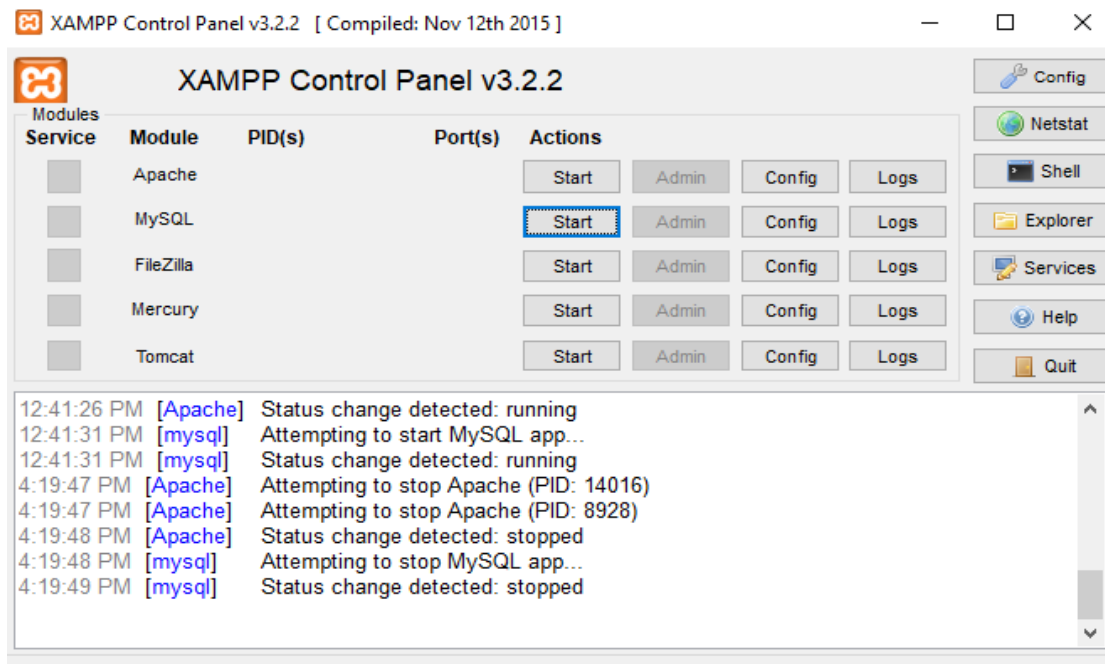
Step 7:

Click the Start button for Apache and MySQL required for TestLink as shown in the following screenshot:

Step 8 :

To verify whether all the pre-requisites such as Apache, PHP, and MySQL is installed properly, navigate to any browser and type http://localhost:your port number. Then, press Enter.

Step 9:

It will display the dashboard of XAMPP. Click phpMyAdmin at the right top corner of the following screenshot:

Then, it will display General Settings, Appearance Settings, Details of Database, Web Server, and phpMyAdmin as shown in the following screenshot:
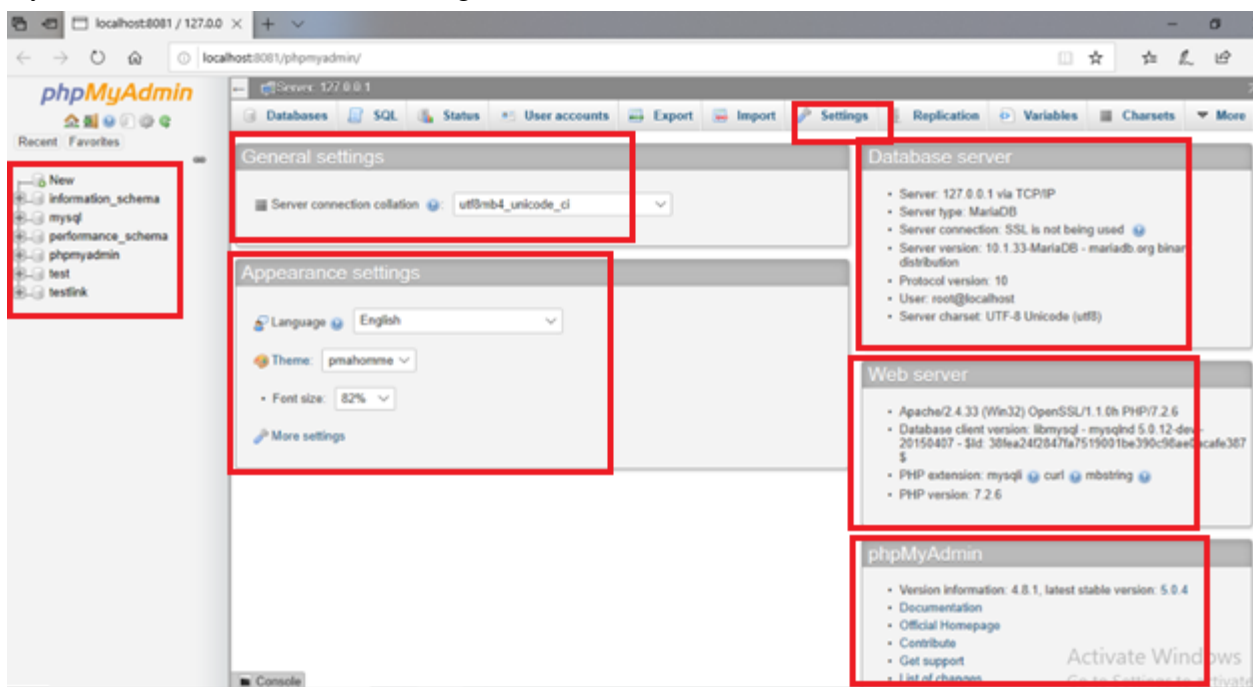
The above page will not be displayed if the installation has been done incorrectly. Hence, up to this point, all the pre-requisites have been successfully installed in the system.
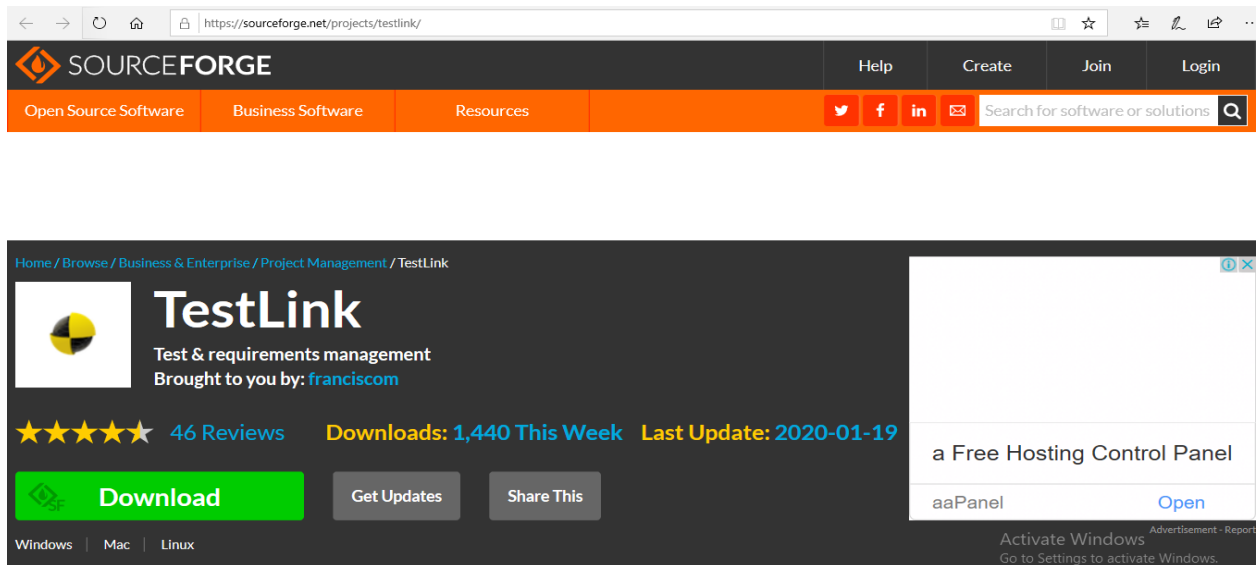
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Installing and launching TestLink

After successful installation of XAMPP, you need to work with TestLink.

Step 1:

Go to https://sourceforge.net/projects/testlink/ and click download.

Step 2:

Now unzip the downloaded .rar file and rename the folder name as TestLink.

Step 3:

Go to XAMPP folder where it is installed and navigate to htdocs folder. Place the TestLink folder here as shown in the following screenshot:
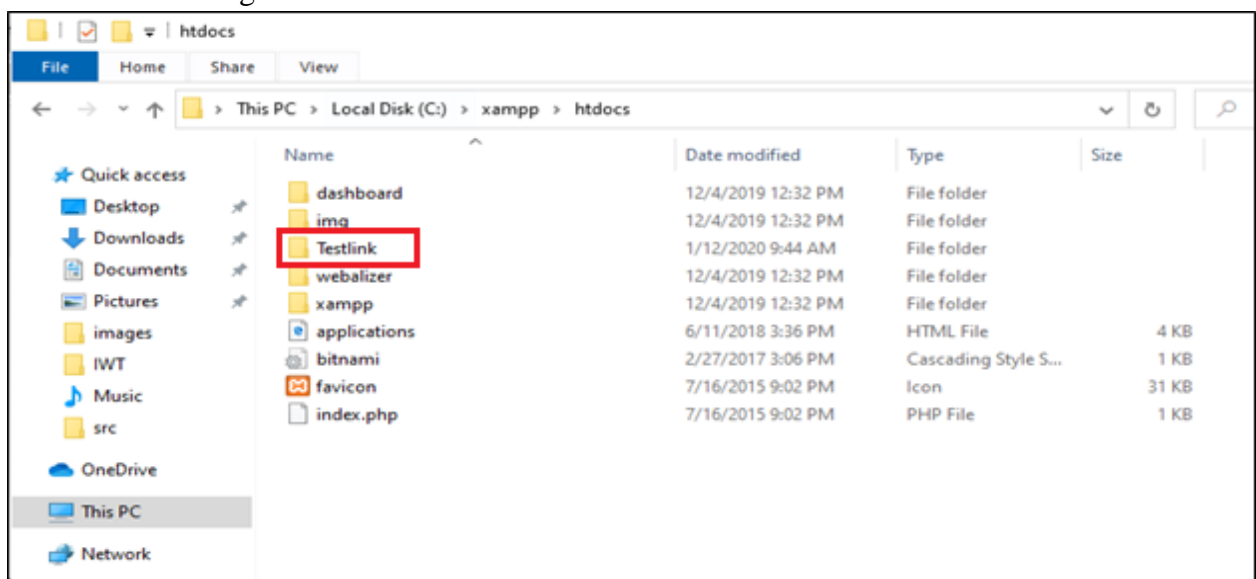
Step 4:

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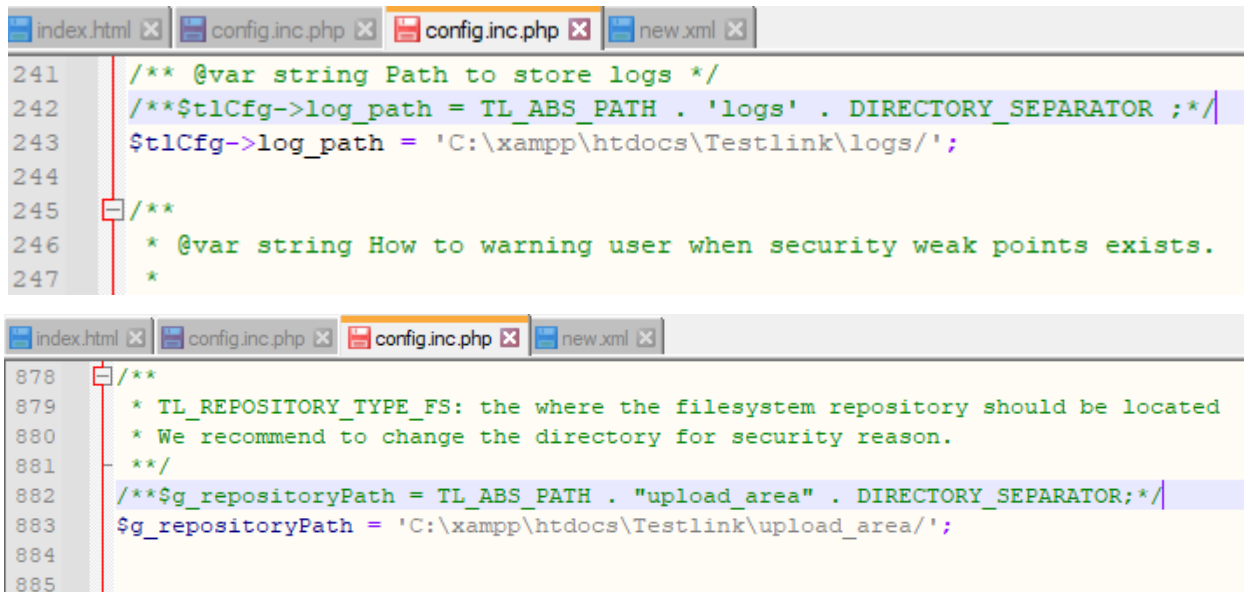
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Go to TestLink package and open "config.inc.php" file. Update "$tlCfg→log_path" and "$g_repositoryPath" paths as shown below:

$tlCfg→log_path = 'D:/xampp/htdocs/testlink/logs/';

$g_repositoryPath = 'D:/xampp/htdocs/testlink/upload area/';

Step 5:

Now open a browser and type http://localhost:(port number)/Testlink/install/index.php in the navigation bar, and press Enter. It will display the installation page of TestLink.

Step 6:
Click New Installation.
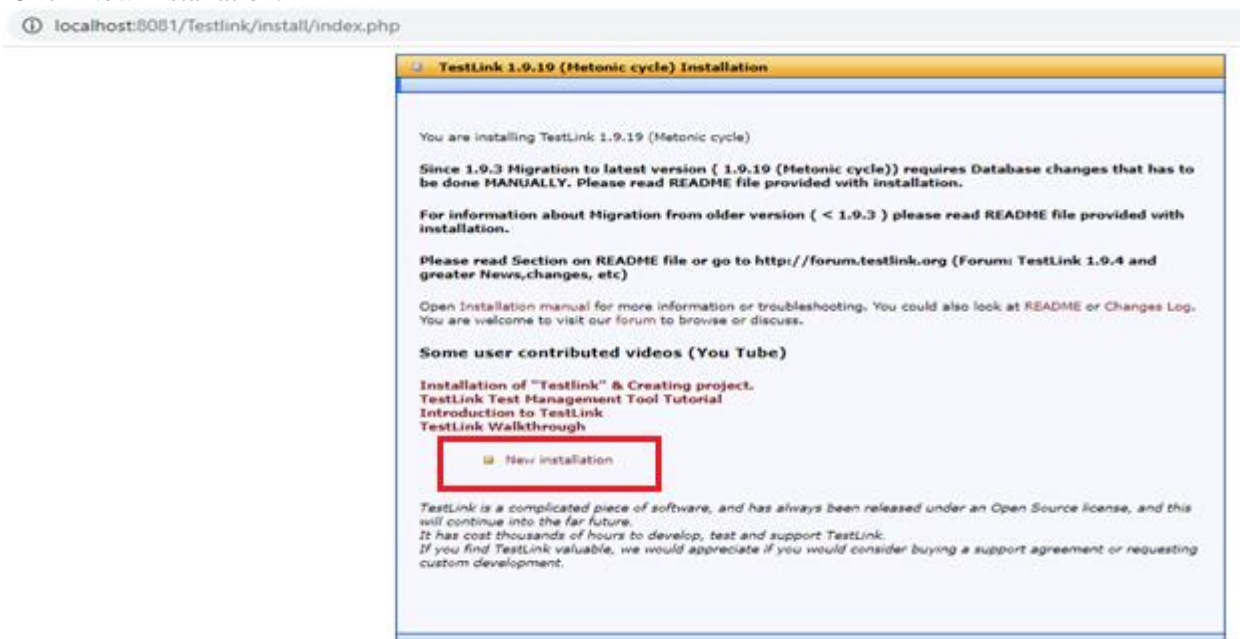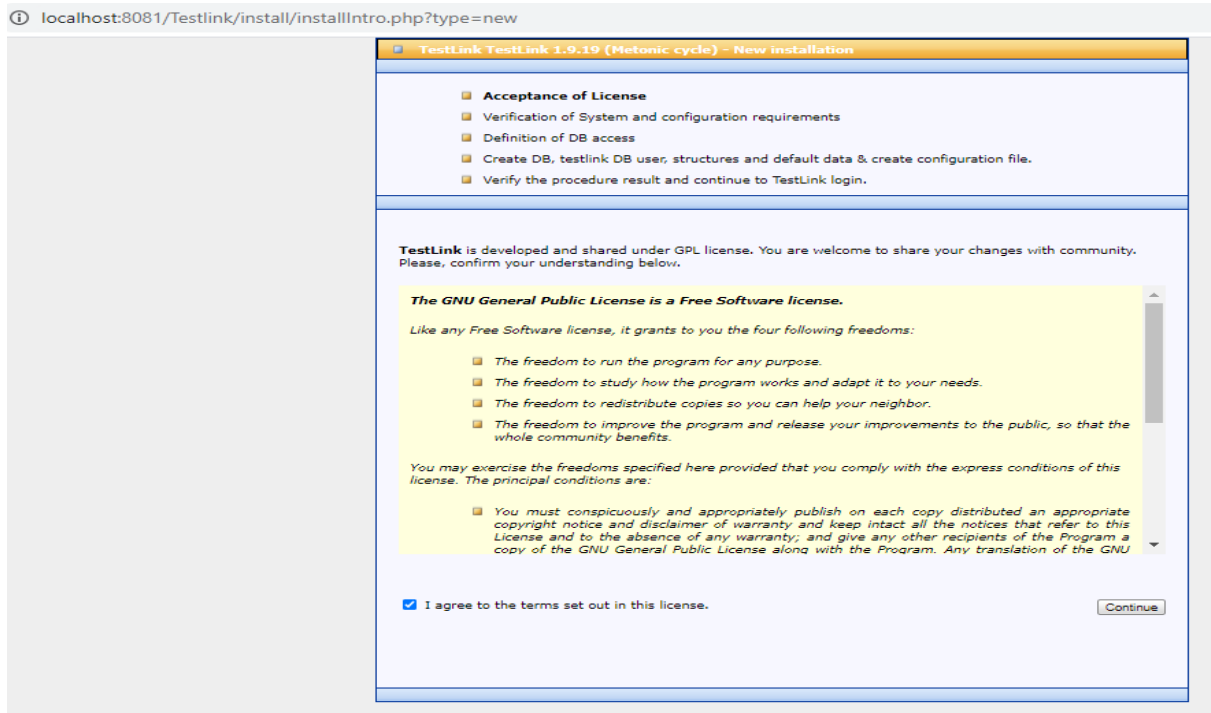
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Step 7:

Check the checkbox for Terms and Conditions and click the Continue button.

The system will check the pre-requisites to ensure everything is fine. A Continue button will appear at the bottom, otherwise an error message will be displayed.

Step 8:

Click Continue as shown in the following screenshot.

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Step 9:

Database Admin and Admin password will be required to define MySQL access. TestLink admin username/password can be anything given by the user.

> Database login/password: root/<empty> (Default login/password of MYSQL for xampp)

Step 10:

Click "Process TestLink Setup" button. You should see the TestLink "Installation was successful!" message being displayed.

Step 11:

Again, navigate to http://localhost/testlink. You will see the login page as shown in the following screenshot:

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Adding a project to TestLink

Step 1:

Enter the following details into Create a Project form:

- **Name** − Should be a unique project name.
- **Prefix** − Is used for test case ID to identify the test cases.
- **Project description** − Details about the project.
- **Enhanced features** − You can check the checkboxes based on the requirement of the project. It allows to select which features you want such as requirement, automation, etc.
- **Issue tracker** − If any issue tracker is linked with TestLink, it will be displayed here.

Select the Availability option and then click the Create button as shown in the following screenshot:
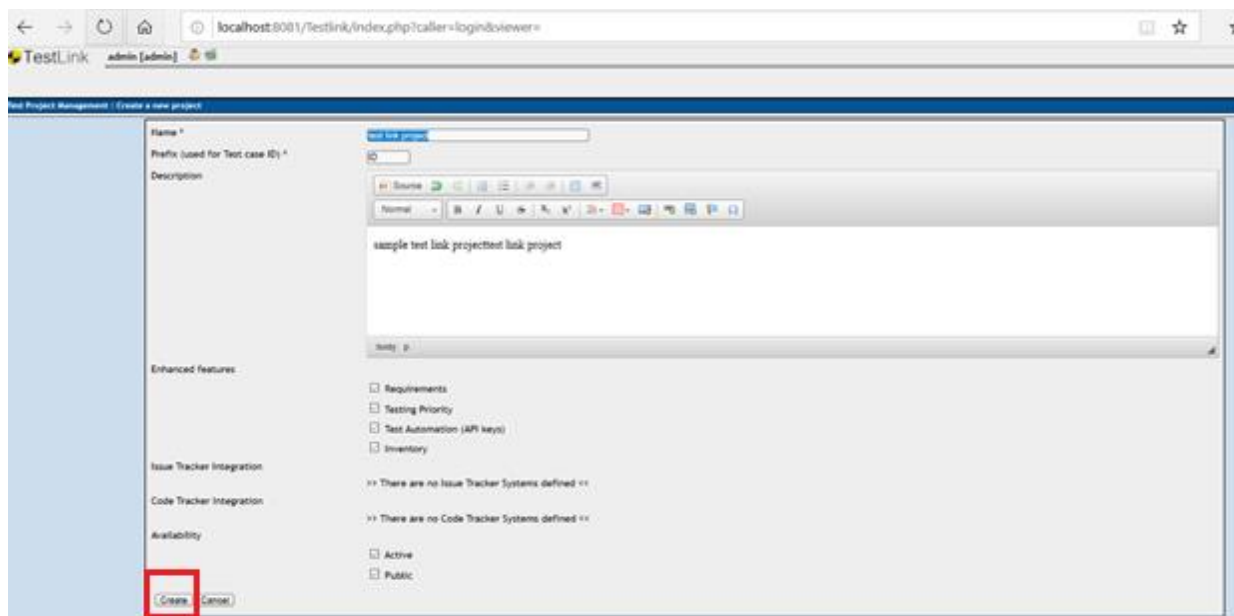
Step 2:

Clicking the Create button adds the project along with Delete and Active/Inactive switch for Requirement and Active features as shown in the following screenshot.
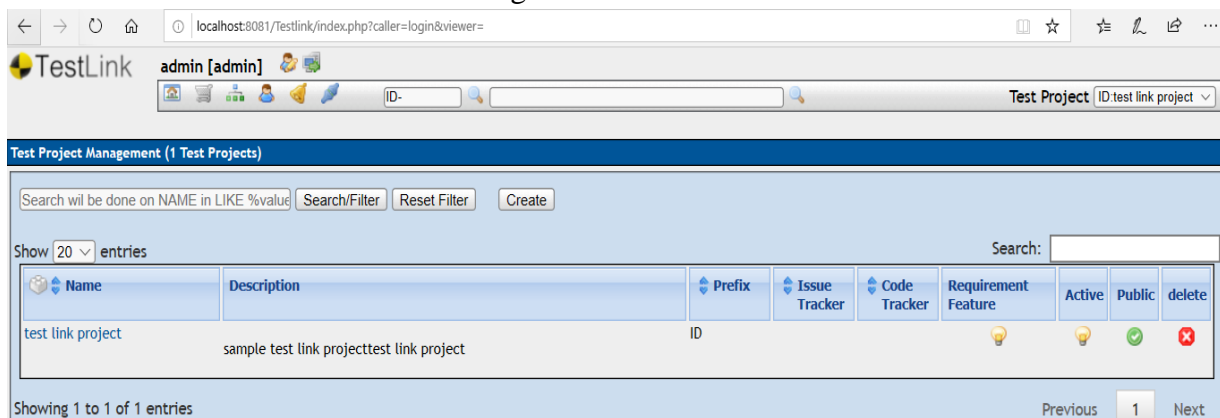
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Creating a Test Plan
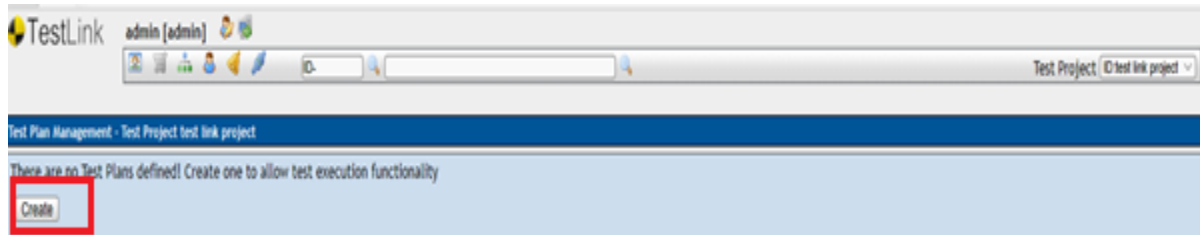
To create a test plan, you should Create Test Plan Permission.

Step 1:

Go to Test Plan → Test Plan Management on the dashboard and click the Create button as shown in the following screenshot:

Step 2:

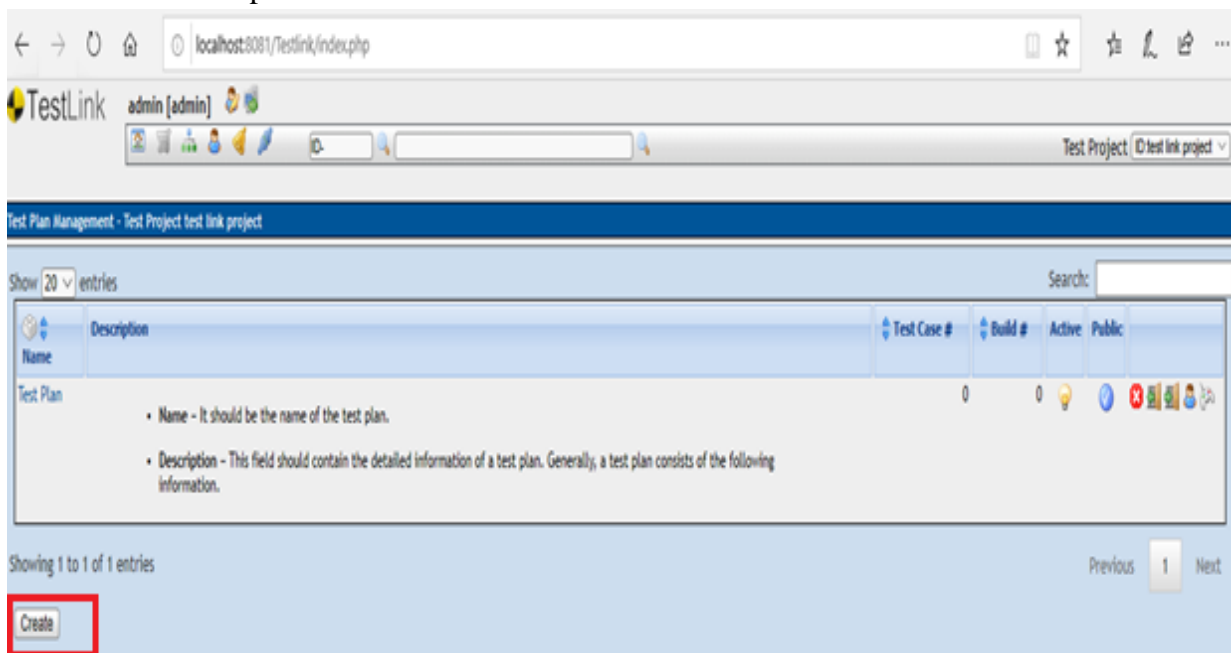Enter the following details in the form:

- o **Name** − The name of the test plan.

- o **Description** − This field should contain the detailed information of a test plan. Generally, a test plan consists of an introduction, test plan identifier, test items, features to be tested, approach, and pass/fail criteria of items.

Step 3:

Click the Create button present at the bottom of the form.

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Creating a Test Suite

To create a Test Suite, you should Create Test Suites permission.

Step 1:

Navigate to Test Specification → Test Specification from the dashboard.

Step 2:

Click the Setting type icon [icon] known as Actions, present on the right panel as shown in the following screenshot:

Step 3:

Enter Name and Details, and click Save to save test suite

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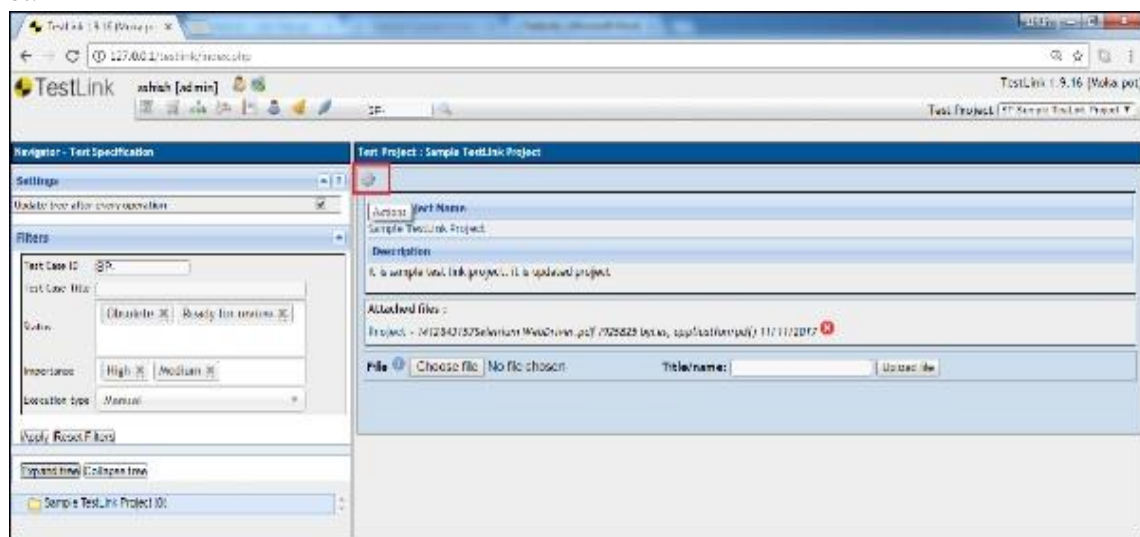
Creating a Test Case

To create a Test Case, you should Create Test Cases permission.

Step 1:

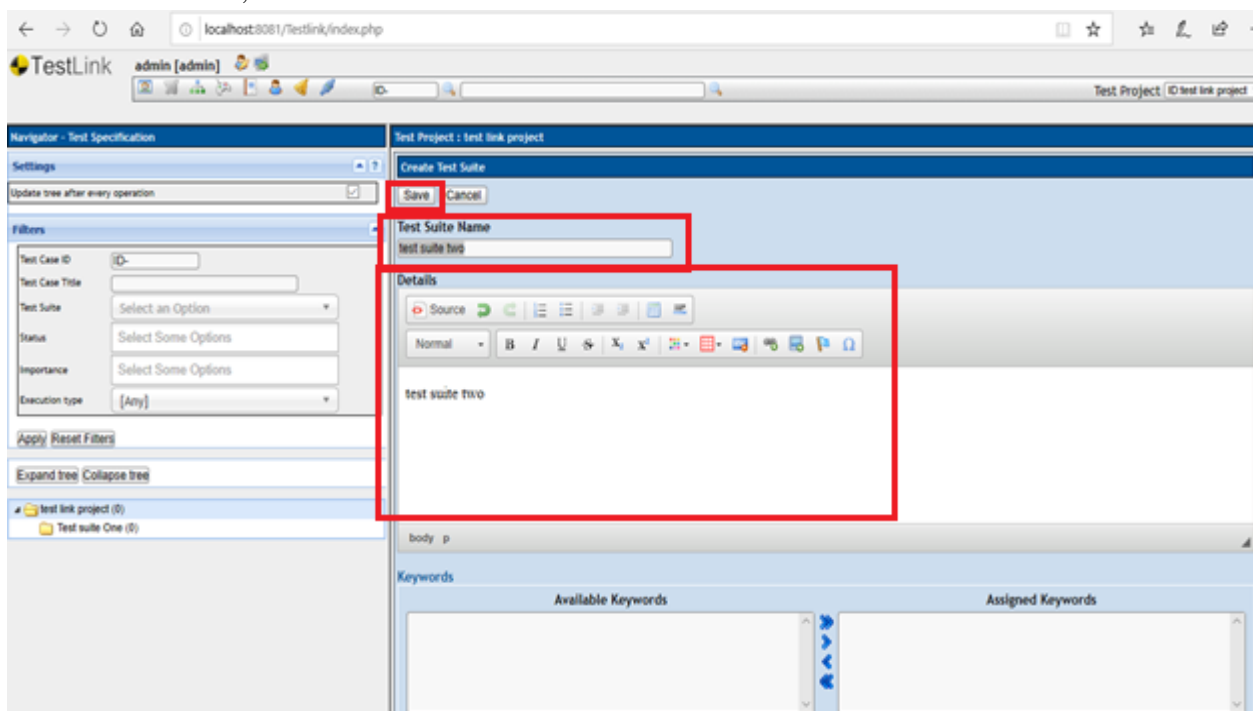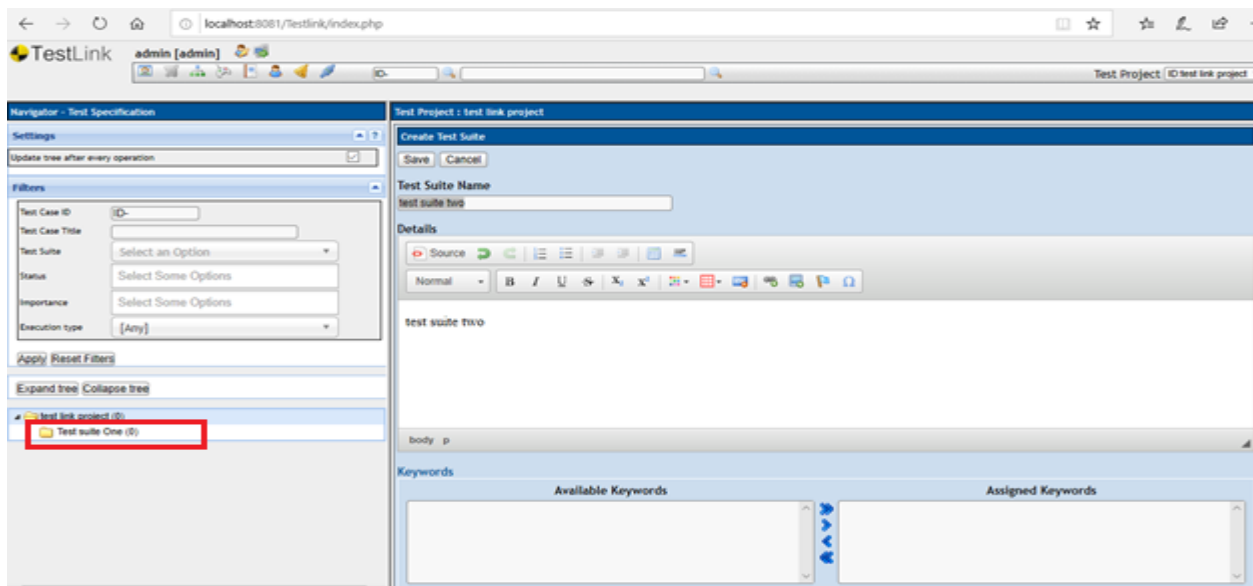Navigate to Test Specification → Test Specification from the dashboard.

Step 2:

Select the test suite from the tree structure on the left side panel on the screen.

Step 3:

Click the Setting type icon known as Actions, present on the right panel of the screen as shown below. It will open Test Suite Operations as well as Test Case Operations.
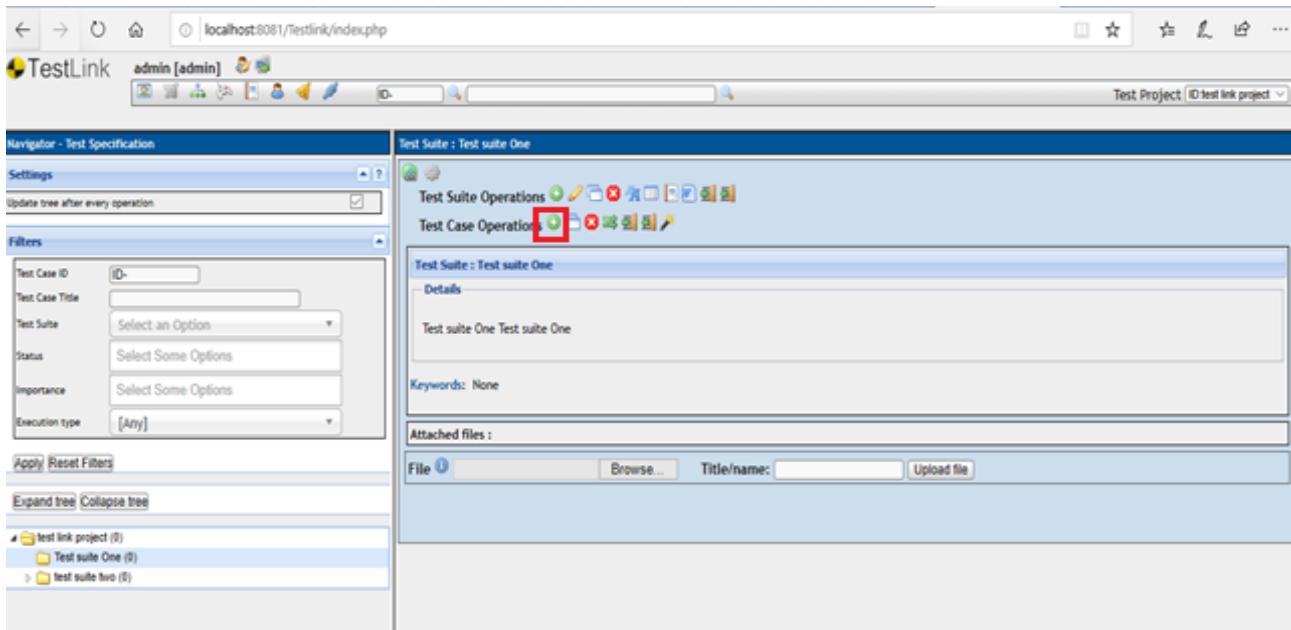
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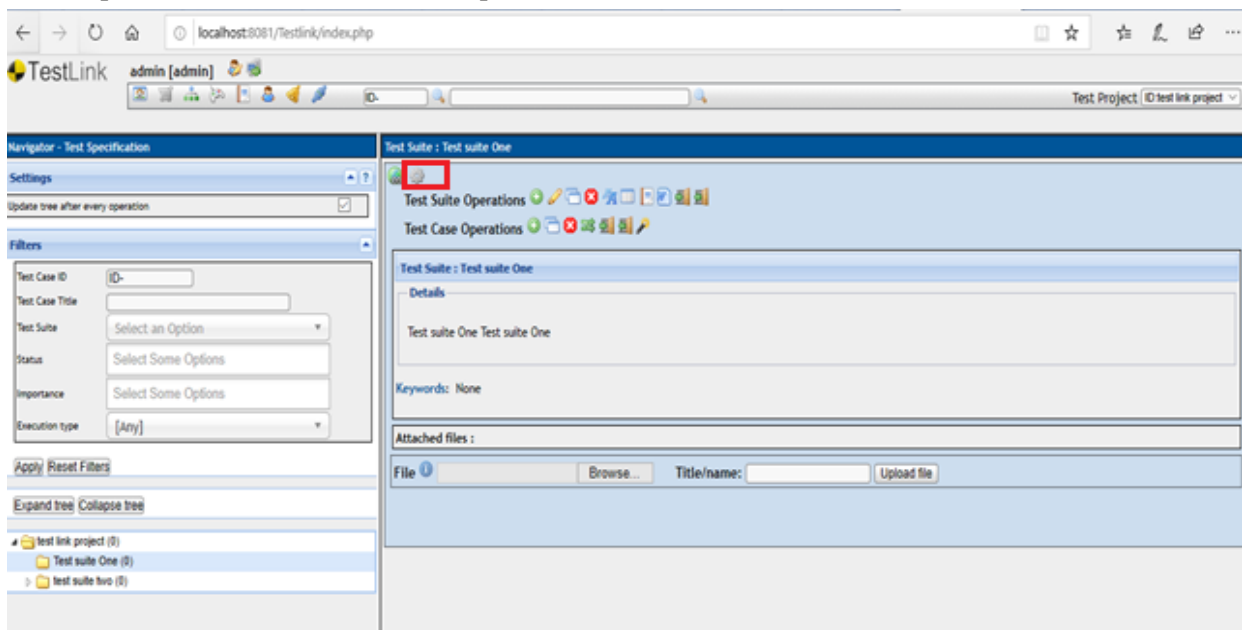
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Step 4:

Click the + icon of Test Case Operations to create a new test case as shown below.

Step 5:

Enter the data and click the Create button. Once you click the Create button, you can see the test case in the tree structure on the left side panel as well as the details are available on the right side of the screen.