

Software Engineering Tools Lab

Assignment No-8

PRN: 2019BTECS00090

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Batch: T8

Q 1. What are the prerequisites for installing the TestLink tool.

Before installing the TestLink tool, you need to ensure that your system meets the following prerequisites:

1. Web server software: TestLink requires a web server software to be installed, such as Apache or Microsoft IIS.
2. PHP: TestLink is built on PHP, so you need to ensure that the appropriate version of PHP is installed on your system. The recommended version of PHP for TestLink is 7.2 or later.
3. Database software: TestLink requires a database to store its data. The supported database software includes MySQL, PostgreSQL, and Microsoft SQL Server.
4. Database server client software: You also need to ensure that the appropriate client software is installed for your database server. For example, if you are using MySQL, you need to ensure that the MySQL client software is installed on your system.
5. Web browser: To access and use the TestLink tool, you need a modern web browser such as Google Chrome, Mozilla Firefox, or Microsoft Edge.
6. Operating system: TestLink can be installed on various operating systems, including Windows, Linux, and macOS. Ensure that your system meets the requirements for your chosen operating system.

TestLink is an open-source web-based test management tool that is used to manage and track software testing efforts. It is widely used by software development teams to plan, manage, and execute test cases for software applications. Here are some reasons why TestLink tool is used:

1. Test planning and management: TestLink provides a centralized platform for managing the testing process, including test planning, test case creation, test execution, and tracking defects.
2. Collaboration: TestLink allows multiple users to collaborate on testing activities, including test case creation, execution, and tracking.

3. Customization: TestLink provides a highly customizable platform that allows users to create custom test case templates, test plans, and reports.
4. Integration: TestLink can be integrated with other software testing tools such as JIRA, Bugzilla, and Selenium, to streamline the testing process and improve productivity.
5. Reporting: TestLink provides a variety of reports and metrics to track testing progress, identify trends, and analyze test results.
6. Automation: TestLink provides the ability to automate test cases and generate automated test results, which can help save time and increase testing coverage.

Overall, TestLink is a comprehensive test management tool that helps software development teams to streamline the testing process, increase efficiency, and improve the overall quality of software applications.

Q 2. Install TestLink tool on your machine (Provide screen shots for successful installation and login)

The screenshot shows the SourceForge page for TestLink. At the top, there's a navigation bar with 'Open Source Software', 'Business Software', and 'Resources'. Below this, the breadcrumb trail reads 'Home / Browse Open Source / Business / Project Management / TestLink'. The main header features the TestLink logo and the text 'Test & requirements management Brought to you by: franciscom'. A badge on the right says 'OPEN SOURCE EXCELLENCE'. Below the header, there are statistics: '44 Reviews' (5 stars), 'Downloads: 1,490 This Week', and 'Last Update: 2020-01-19'. Action buttons include 'Download', 'Get Updates', and 'Share This'. A row of operating system links (Windows, Mac, Linux, BSD, ChromeOS) is present. A tabbed interface at the bottom shows 'Summary', 'Files', 'Reviews', 'Support', 'Mailing Lists', 'News', and 'Code'. The 'Summary' tab is selected, displaying a description of TestLink as a web-based test management tool and its GitHub repository link: <https://github.com/TestLinkOpenSourceTRMS>.

Step 2 – Now unzip the downloaded .tar 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.

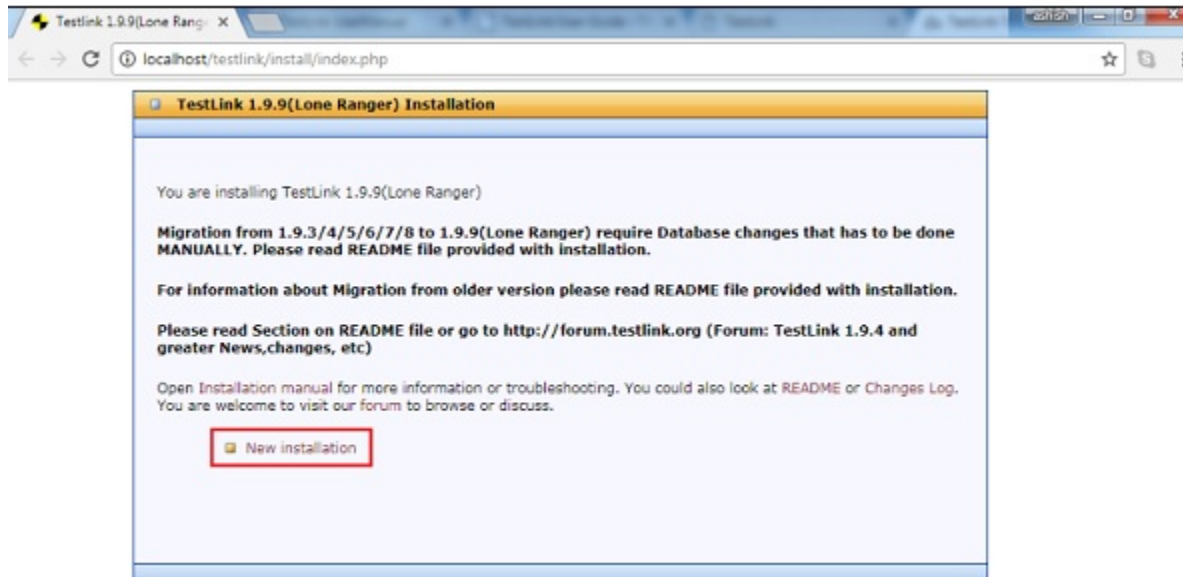
Step 4 – Go to TestLink package and open “config.inc.php” file, update path “\$tlCfg→log_path” and “\$g_repositoryPath” as below –

\$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/Testlink> in the navigation bar and press Enter. It will display the installation page of TestLink.

Step 6 – Click New Installation.



Q 3. Using TestLink tool create multiple test cases (at least 10) on any application/project that you have implemented.

Perform below tasks

- a. Create New test project as SETProject

You are signed in as Aces | Bitnami TestLink Stack | TestLink 1.9.16 (Moka pot)

localhost/testlink/index.php?caller=login&viewer=

TestLink vaishnavi [admin]

TestLink 1.9.16 (Moka pot)

Test Project Management : Create a new project

Name * Set PROJECT

Prefix (used for Test case ID) * TC

Project description

Source

Normal

This is a set project

body p

Enhanced features

☐ Enable Requirements feature

☒ Enable Testing Priority

☒ Enable Test Automation (API keys)

☐ Enable Inventory

Issue Tracker Integration

>> There are no Issue Tracker Systems defined <<

Availability

☒ Active

☒ Public

Create Cancel

* Mandatory fields

You are signed in as Aces | Bitnami TestLink Stack | TestLink 1.9.16 (Moka pot)

localhost/testlink/index.php?caller=login&viewer=

TestLink vaishnavi [admin]

TestLink 1.9.16 (Moka pot)

Test Project Management (1 Test Projects)

Search will be done on NAME in LIKE %value% SearchFilter Reset Filter Create

Show 20 entries

Name	Description	Prefix	Issue Tracker	Requirement Feature	Active	Public	delete
Set PROJECT	This is a set project.	TC					

Showing 1 to 1 of 1 entries

Window Stop

Previous 1 Next

b. Create a test plan as SETProjectTestPlan

TestLink 1.9.16 (Moka pot)

localhost/testlink/index.php

TestLink valshnavi [admin] TC: Test Project TC Set PROJECT

Test Plan Management - Test Project Set PROJECT

Show 20 entries

Name	Description	Test Case #	Build #	Active	Public
SET Project Test Plan	This is a set project test plan	0	0		

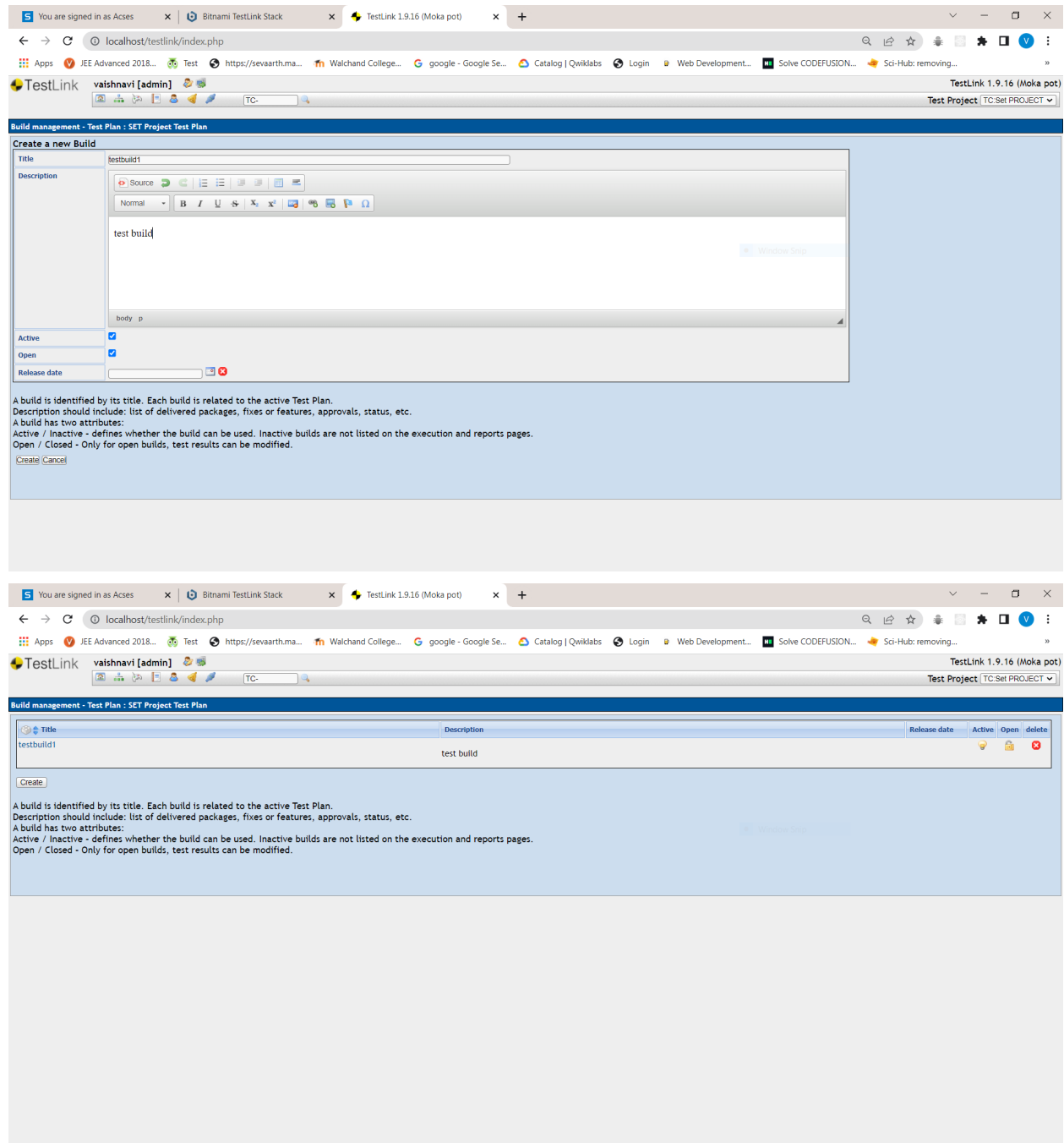
Showing 1 to 1 of 1 entries

Create

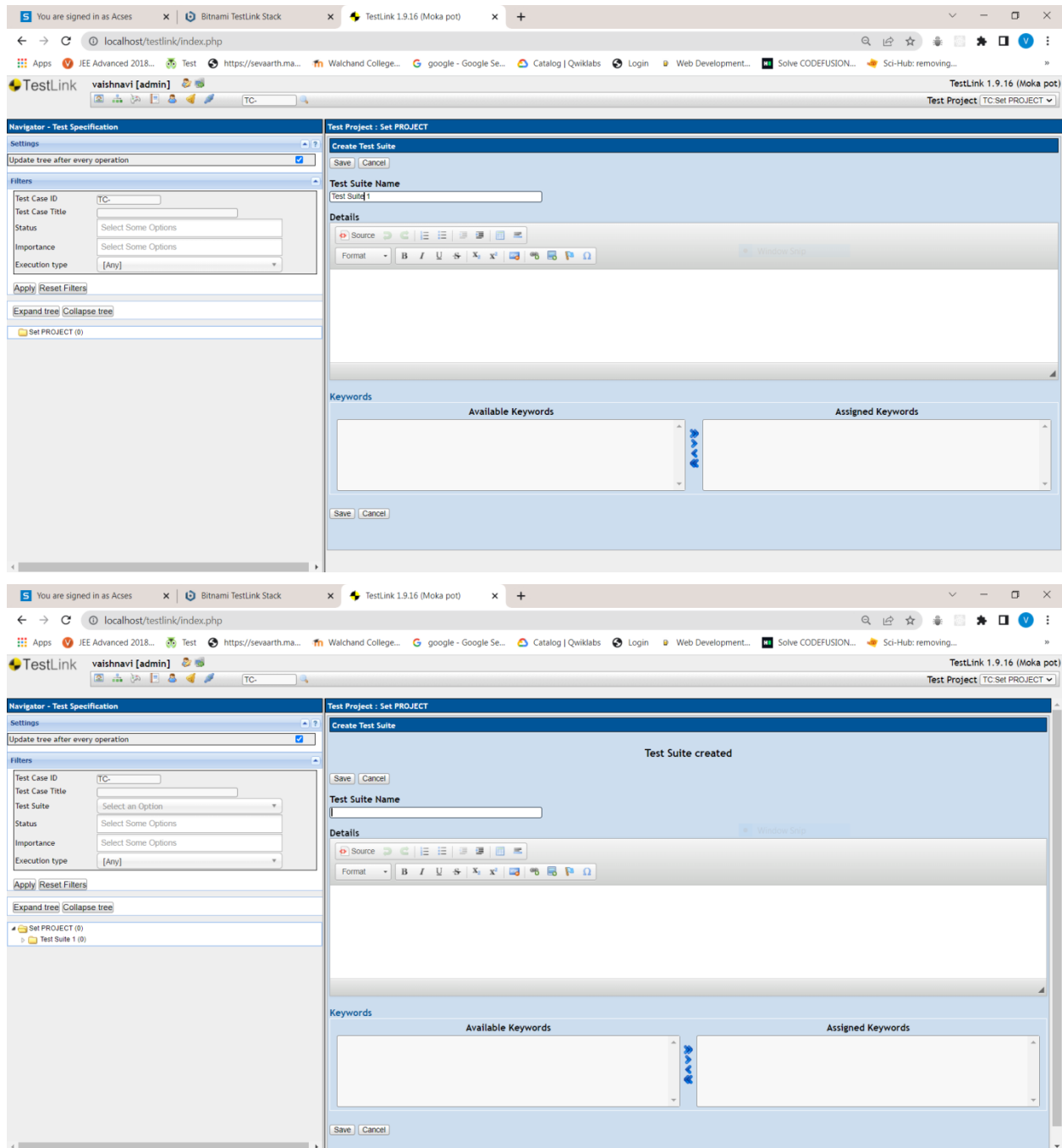
Previous 1 Next

Windows Script

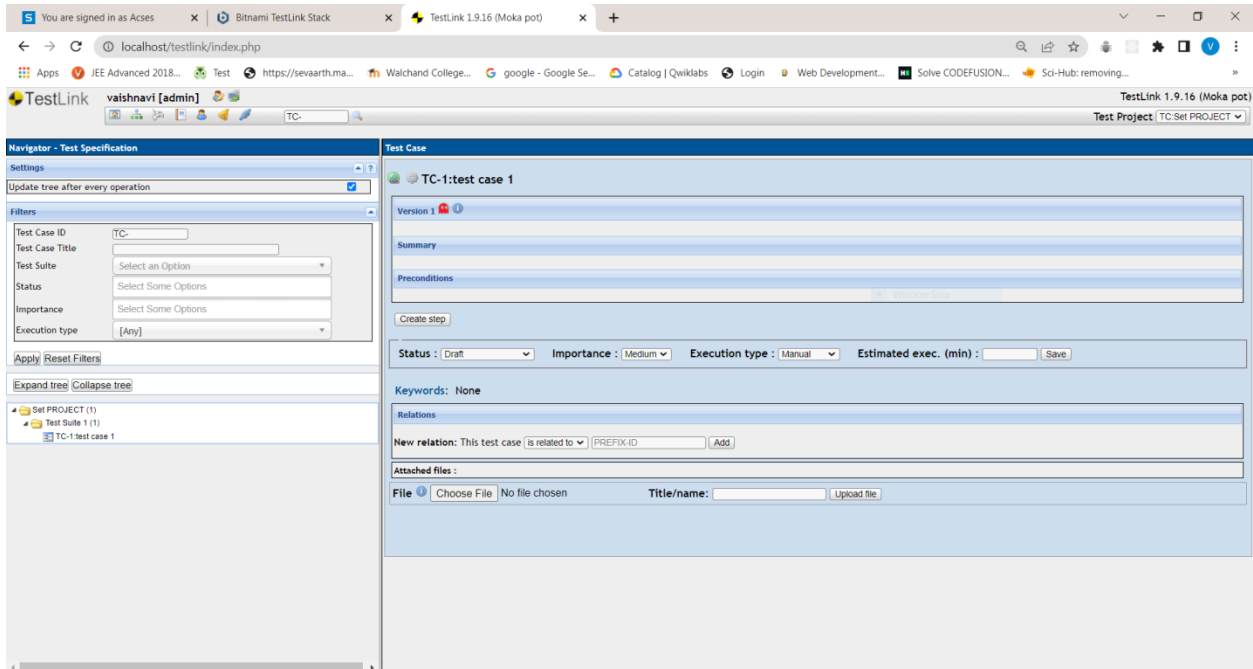
c. Create a build as SETProjectBuild



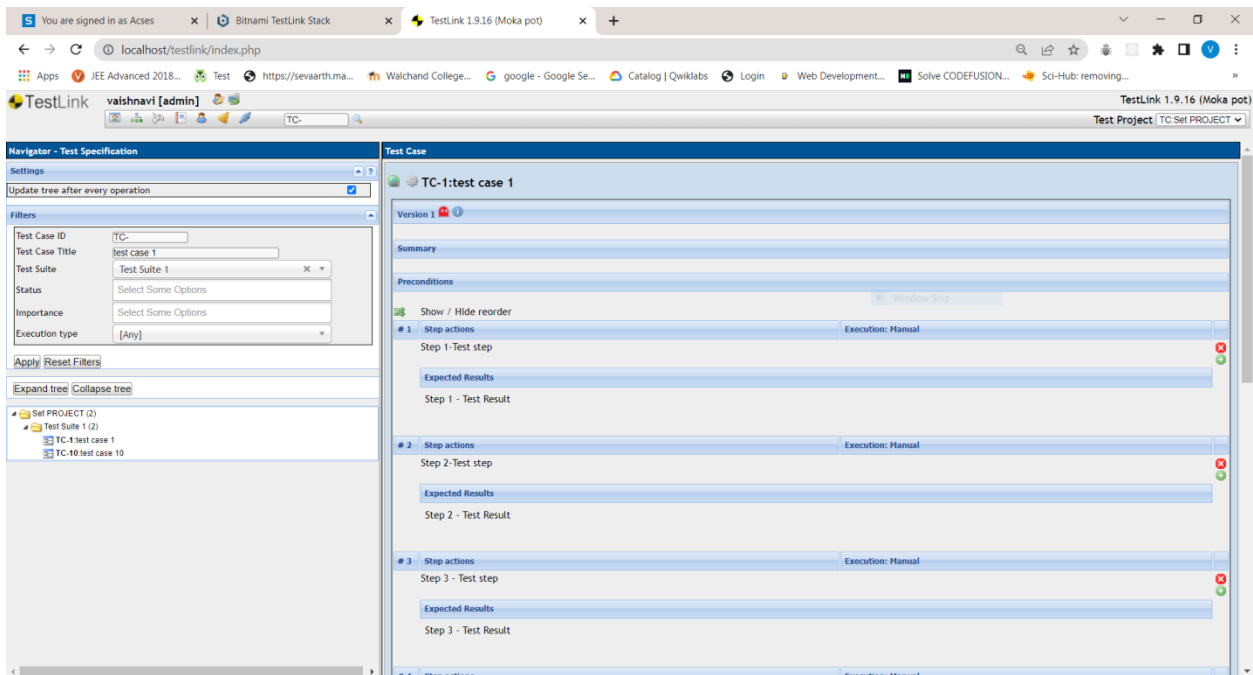
d. Create test suite as Test Suite 1 under SETProject



e. Create Test cases in TestLink Tool



f. Assign created Test Cases to the test plan SETProjectTestPlan



g. Create different roles as given below in the TestLink

S No.	Role	Test Cases	Test Metrics
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1.	Guest	View	View
2.	Tester	Execute	View
3.	Senior Tester	Edit & Execute	View
4.	Leader & Admin	Edit & Execute	Edit & Execute

h. Write a requirements in TestLink

i. Executetest cases

j. Generate a test report in excel format.

*Note- Use the document for reference <https://github.com/sdpwce/SETAssignment/Testlink TMT.pdf>