#### **Software Engineering Tools Lab**

**Assignment No-8** 

**Module 5- Software testing using tools** 

PRN: 2020BTECS00079

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

Operating System: Windows, Linux, or Mac OS X

xampp-5.6.36

Web Server: Apache or IIS

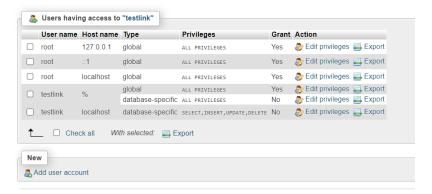
Database: MySQL, PostgreSQL, or Microsoft SQL Server

PHP: Version 5.6.x or higher

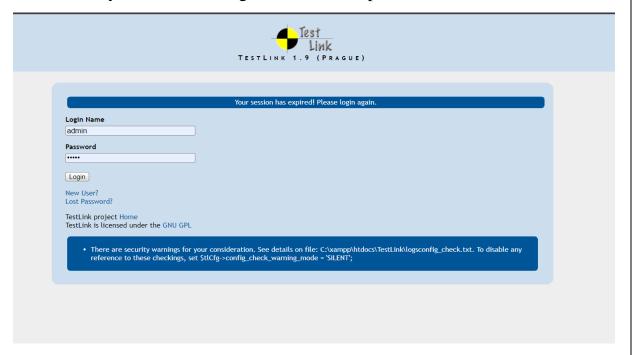
PHP Extensions: mbstring, gd, xml, mysqlnd, mysqli or pdo\_mysql, zip Browser: Any modern web browser such as Chrome, Firefox, or Safari

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

- 1. Download the latest stable version of TestLink from the official website (<a href="https://testlink.org/">https://testlink.org/</a>).
- 2. Extract the downloaded ZIP file to a directory on your machine.
- 3. Copy the extracted TestLink folder to your web server's document root directory.
- 4. Create a new database for TestLink and grant a user with necessary privileges to access the database.



- 5. Rename the configuration file config.inc.php.sample to config.inc.php and modify the necessary configuration settings such as database connection details.
- 6. Open a web browser and navigate to the TestLink installation URL (e.g., <a href="http://localhost/testlink/install/index.php">http://localhost/testlink/install/index.php</a>).
- 7. Follow the on-screen instructions to complete the installation process, providing the necessary details such as database connection details and administrator account information.
- 8. Once the installation is complete, login to TestLink using the administrator account that you created during the installation process.



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

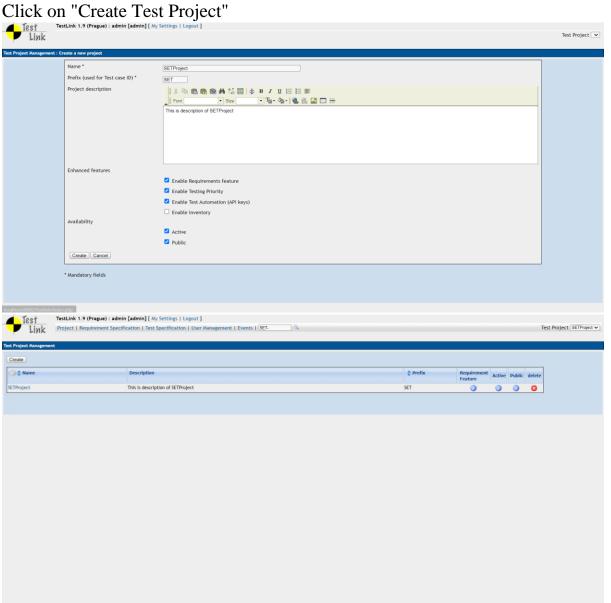
Perform below tasks

a. Create New test project as SETProject

Login to TestLink

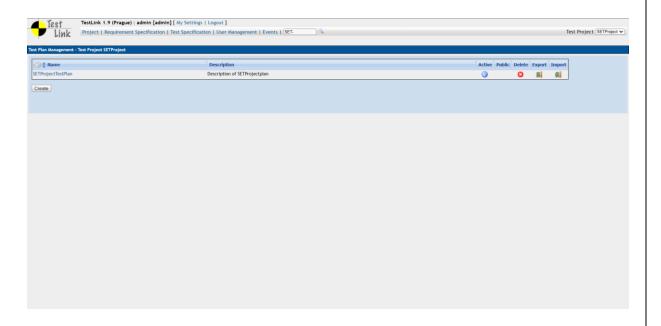
Click on "Create new test project" under the "Test Project Management" tab

Enter the project name as "SETProject" Enter a brief description of the project Select any relevant options like enable requirements management, test plan management, etc.



# b. Create a test plan as SETProjectTestPlan

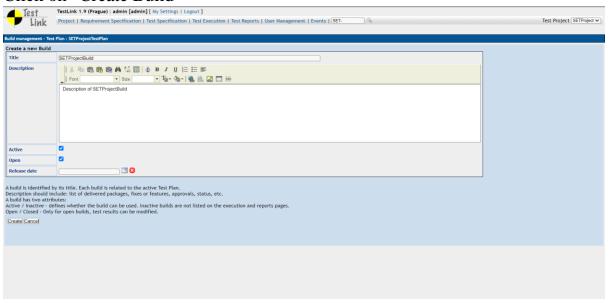
Click on the "Test Plan Management" tab Click on "Create Test Plan" under SETProject Enter the test plan name as "SETProjectTestPlan" Enter a brief description of the test plan Select the test cases to be included in the test plan Click on "Create Test Plan"

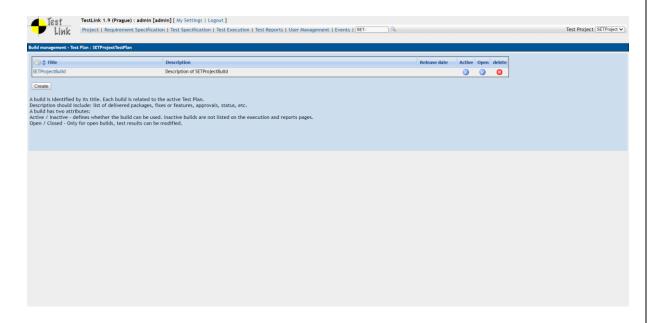


# c. Create a build as SETProjectBuild

Click on the "Builds" tab
Click on "Create Build" under SETProject
Enter the build name as "SETProjectBuild"
Enter a brief description of the build
Select the test plan for the build

Click on "Create Build"

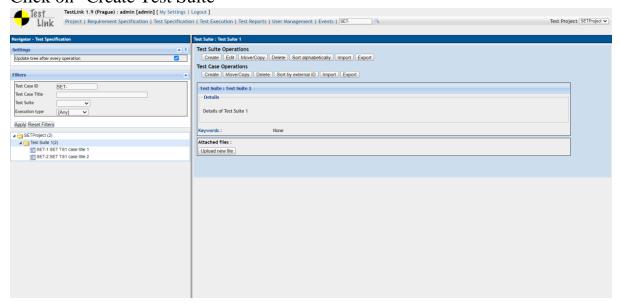




## d. Create test suite as Test Suite 1 under SETProject

Click on the "Test Specification" tab Click on "Create Test Suite" under SETProject Enter the test suite name as "Test Suite 1" Enter a brief description of the test suite Select the test plan for the test suite

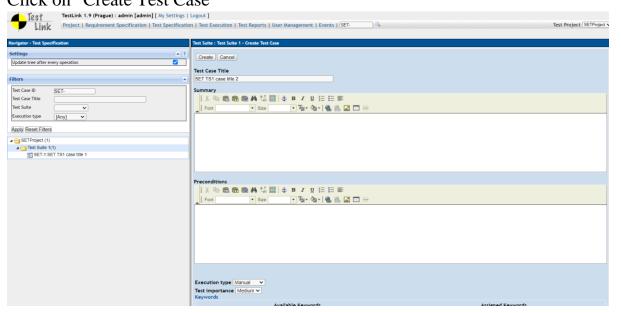
Click on "Create Test Suite"



#### e. Create Test cases in TestLink Tool

Click on "Create Test Case" under "Test Specification"
Enter the test case title and summary
Select the test suite to which the test case belongs
Add the steps to execute the test case and expected results

# Add any preconditions and post-conditions Click on "Create Test Case"



## f. Assign created Test Cases to the test plan SETProjectTestPlan

Click on the "Test Plan Management" tab Select the SETProjectTestPlan Click on the "Test Case Assignment" tab Select the test cases to be assigned to the test plan Click on "Assign Test Case(s) to Test Plan"

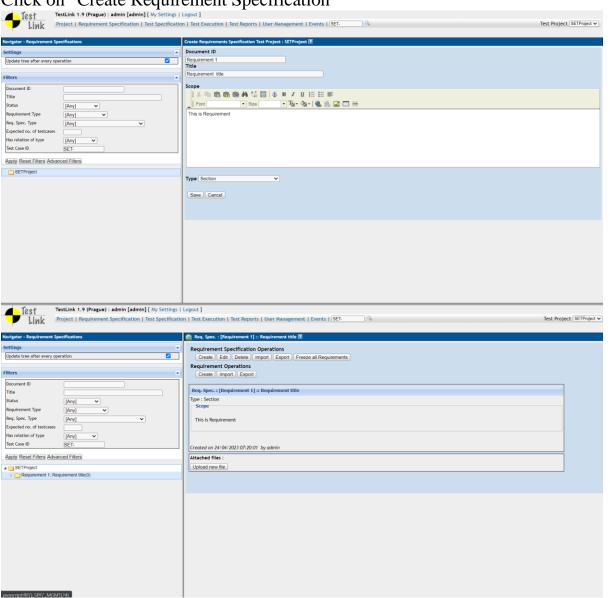
# g. Create different roles as given below in the TestLink

Click on the "User Management" tab Click on "Define Roles" under SETProject Create different roles like "Tester," "Test Manager," "Developer," etc.



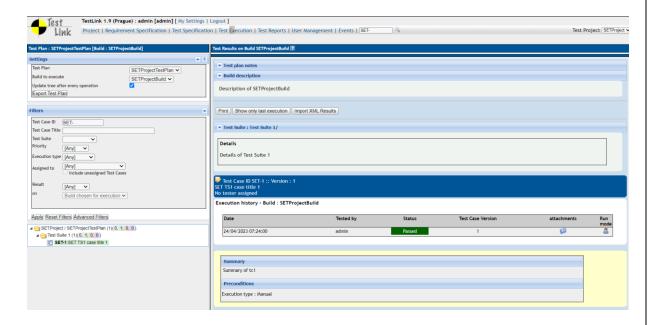
## h. Write a requirements in TestLink

Click on the "Requirements Specification" tab Click on "Create Requirement Specification" Enter the requirement name and description Assign the requirement to a test plan Click on "Create Requirement Specification"



#### i. Execute test cases

Click on the "Execute Tests" tab Select the test plan and build Select the test cases to be executed Assign the test cases to a tester Execute the test cases



## j. Generate a test report in excel format.

Click on the "Test Plan Management" tab Select the SETProjectTestPlan Click on the "Metrics" tab Select the report type as "Excel"

