2CSDE80 Software Testing and Quality Assurance

Lab-3 Task

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Aim: **To study and perform sample tests using Test Link Testing tool**

Methodology followed:

Part 1: Installation of TestLink

- Installation process

    Since TestLink is a web application it follows the concept of client/server. It means that TestLink can be installed centrally on a server and users can interact with it through web browsers using a website from any computer.

    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. Configure the webserver with the .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 the 5.3.8 PHP version.

3. Mandatory PHP Extensions − Extensions for RDBMS are mysqli, pgsql, oci8, sqlsrv. Mbstring is required for Unicode – UTF-8 support.
4. Optional Extensions − Curl, GD, Fileinfo
5. Database − TestLink requires the 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.

Thus from Bitnami website download the installer and keep MySQL and Apache running and login to the testlink site for further process.
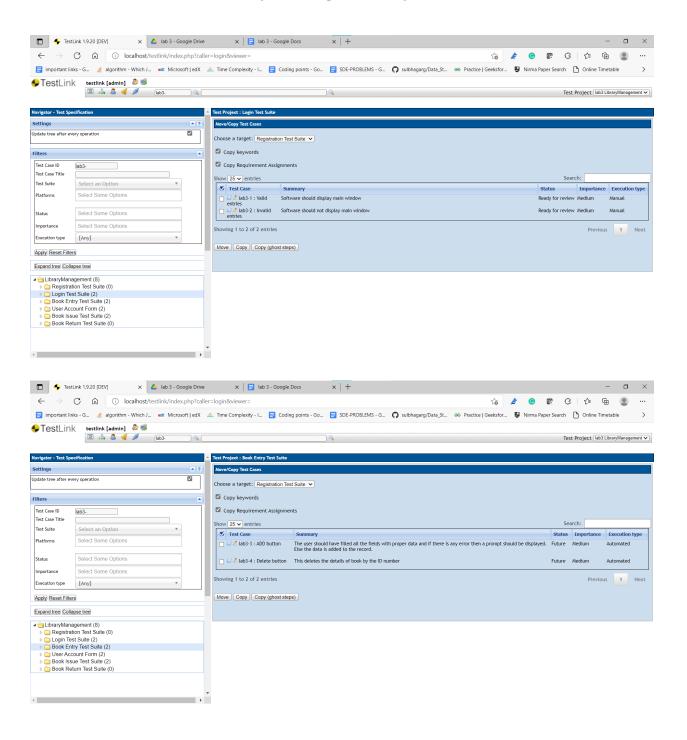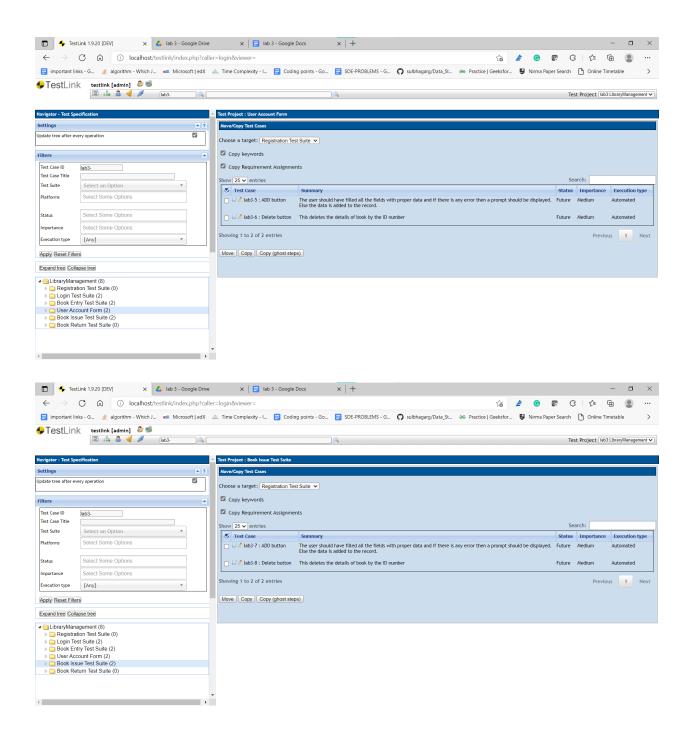
● Advantages

1. It supports multiple projects
2. Open-source tool
3. Provides the GUI
4. Easy export and import of test cases
5. Easy to integrate with many defect management tools
6. Automated test cases execution through XML-RPC
7. Easy filtration of test cases with version, keywords, test case ID, and version
8. Easy to assign test cases to multiple users
9. Easy to generate test plan and test reports in various formats
10. Provide credentials to multiple users and assign roles to them

● Disadvantages

1. Integration with Automated Suite is not possible.
2. Integration with Defect Tracking Tools is not easy so difficult to link defects with failed test cases
3. TestLink does not allow the provision to test mobile applications.
4. With the advancement of web technologies and increased complexities, sometimes the tester finds it difficult to use this tool for test management.
5. There are other powerful tools available in the market with increased flexibilities and options with which TestLink may not compete well.

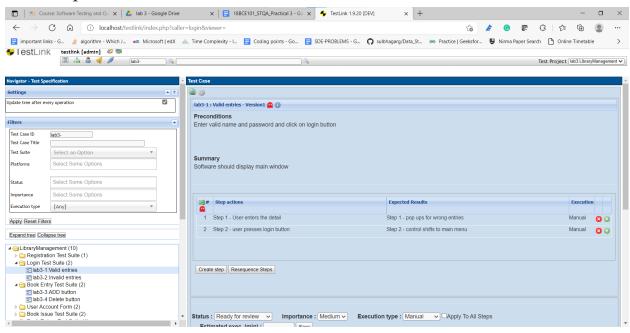# Part 2: Test cases on library management system

Link to the test-spec document generated:

https://drive.google.com/file/d/1u-_0dtWwrUPICER4Rx6m2LtUjky5
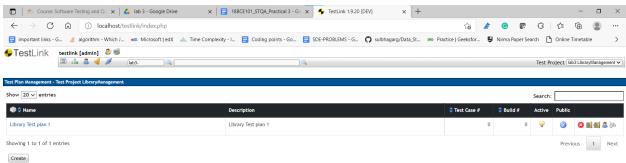0low/view?usp=sharing

It can even be viewed at:
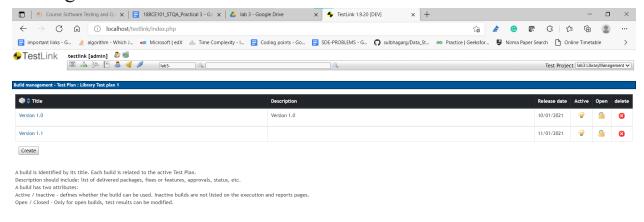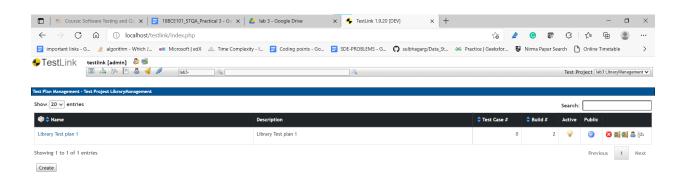
[testspec LibraryManagement](#)
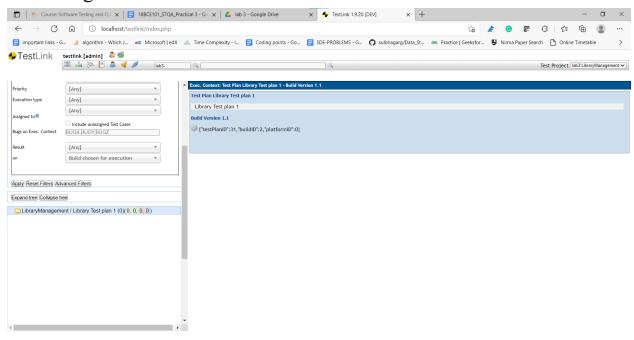
Test Steps

Test plan

Adding builds and releases:

Assigning to the user

Executing

Conclusion:

TestLink is a web application; it provides a private website for individuals or a group of requesting users belonging to the same company/project.

TestLink can be run on the server-side.

TestLink is a PHP-based application, which is compatible with all operating system platforms, such as Windows, different versions of Linux, MAC, etc.

TestLink is compatible with all famous browsers, such as Chrome, IE, Mozilla, and Safari.