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Experiment 7

Aim: To Setup and Run Selenium Tests in Jenkins Using Maven.

Theory:

Selenium is an open-source, automated testing tool used to test web applications across various browsers. Selenium can only test web applications, unfortunately, so desktop and mobile apps can't be tested. However, other tools like Appium and HP's QTP can be used to test software and mobile applications.

Features of Selenium:

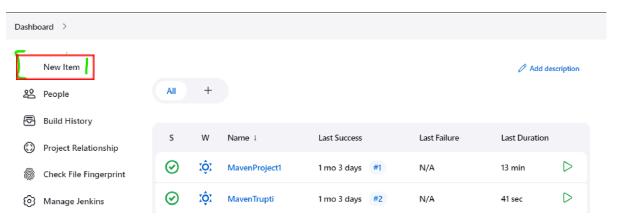
- Selenium has proven to be accurate with results thus making it extremely reliable.
- Since selenium is open-source, anybody willing to learn testing can begin at no cost.
- Selenium supports a broad spectrum of programming languages like Python, PHP, Perl, and Ruby.
- Selenium supports various browsers like Chrome, Firefox, and Opera, among others.

Limitations of Selenium:

- Since Selenium is open-source, it doesn't have a developer community and hence doesn't have reliable tech support.
- Selenium cannot test mobile or desktop applications.
- Selenium offers limited support for image testing.
- Selenium has limited support for test management. Selenium is often integrated with tools like JUnit and TestNG for this purpose.
- You may need knowledge of programming languages to use Selenium

Output:

1. Login to Jenkins and click on New Item to create a project



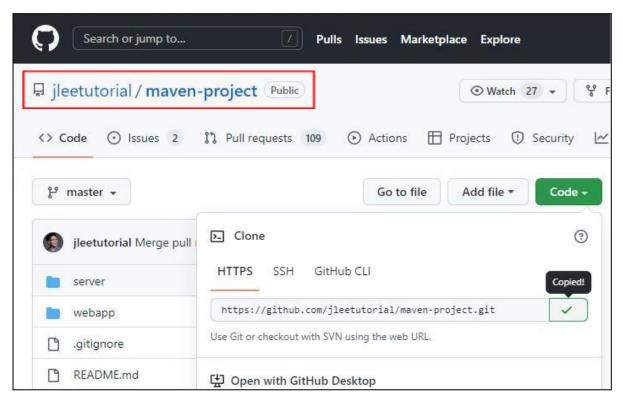
2. Give a name to your project and select Maven Project

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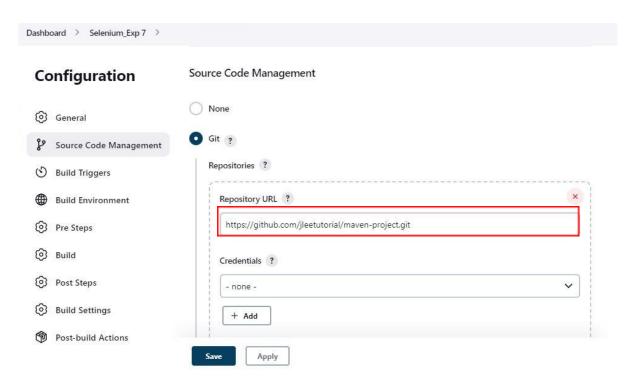
3. Now, Login to your GitHub Account and search for a repository named jleetutorial maven project. Then copy the https path.



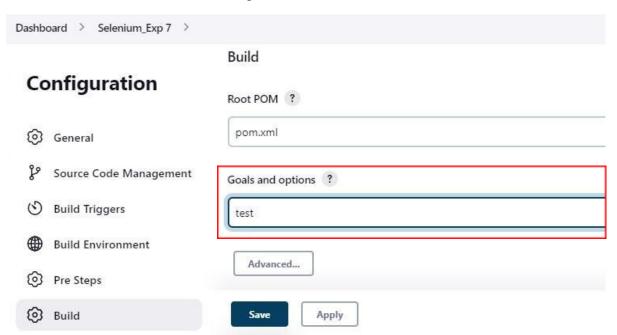
4. Come back to Jenkins and paste the repository path in the Source Code Management

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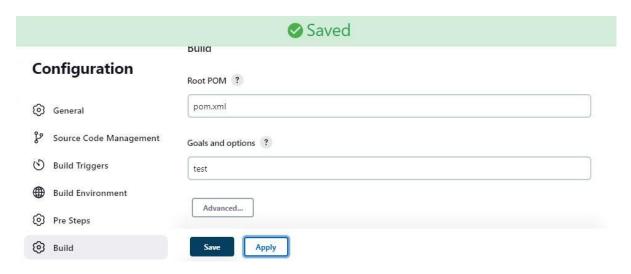
 $\underline{5.}$ Enter "test" in the Goals and options section



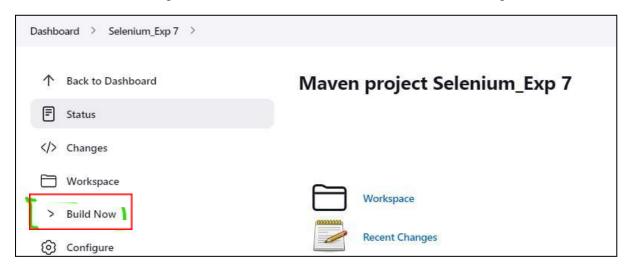
6. Now Apply and Save the changes

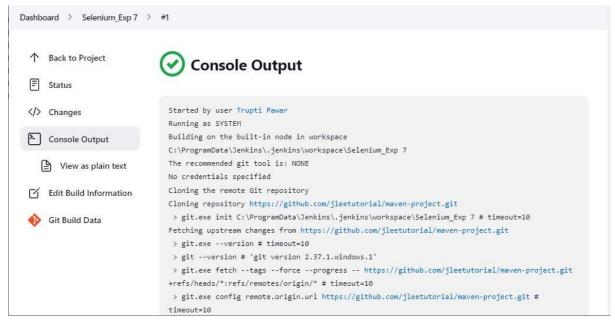
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7. To check the output, click on Build Now. Then click on Console Output

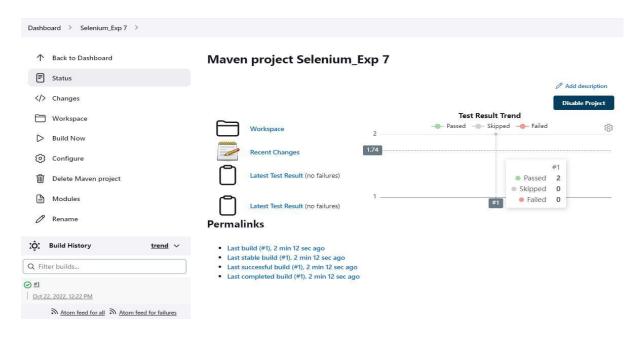




8. This is the final Status

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Conclusion:

From the above experiment, it is concluded that we successfully setup and ran Selenium Tests in Jenkins using Maven. In this experiment we examined the importance of Selenium and Jenkins to test Software Application. And hence with this experiment, we have achieved the Lab Outcome Four (LO4).

POs Achieved: PO1, PO5, PO12