Automation Testing

TestNG Features and Installation

A Day in the Life of an Automation Test Engineer

John has decided to choose TestNG for his automation testing projects.

He must learn TestNG to finish his project because it improves the structure, readability, maintainability, and usability of automated tests.

To achieve the above, he will learn the features of TestNG and set up TestNG in this lesson.

Learning Objectives

By the end of this lesson, you will be able to:

◉ Describe TestNG

◉ Learn how to set up TestNG

◉ List the features of TestNG

What Is TestNG?

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TestNG is an open-source test automation framework based on Java. JUnit and NUnit are the foundations of TestNG.

TestNG

Why TestNG?

TestNG improves the structure, readability, maintainability, and usability of automated tests.

TestNG Installation

Install TestNG In Eclipse

The instructions for installing TestNG in eclipse are as follows:

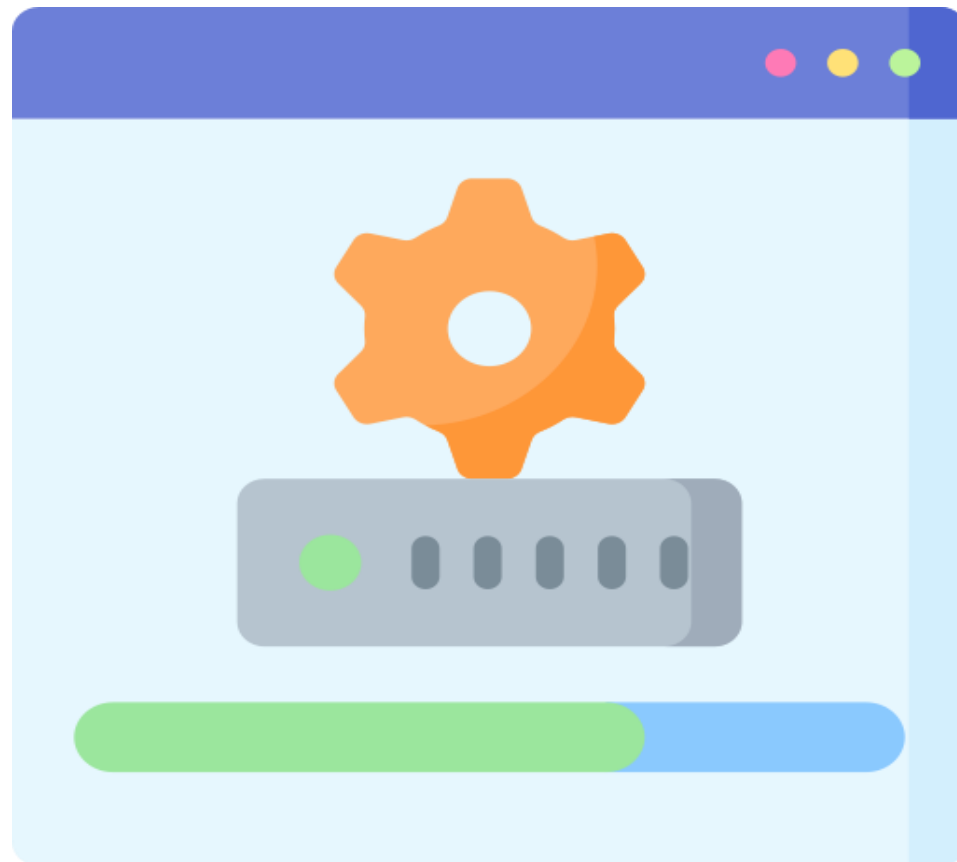Install new software by opening Eclipse software

Using the find option, look for TestNG and then click the install button

Confirm the installation procedure by selecting the confirm button

Accept the terms of the license

Install TestNG In Eclipse

The instructions for installing TestNG in Eclipse are as follows:

Wait for installation after accepting the license agreement

If a security warning appears, simply choose **Install Anyway**

Select the restart option when Eclipse offers it

Verify that TestNG for Eclipse is successfully installed after the restart

Features of TestNG

Features of TestNG

Multiple before and after annotation options

XML-based test configuration

Dependent methods

Groups or group of groups

Dependent groups

Features of TestNG

Parameterization of test methods

Data-driven testing

Multithreaded execution

Better reporting

Open API

Key Takeaways

- TestNG improves the structure, readability, maintainability, and usability of automated tests.

- TestNG is intended to be superior to JUnit when testing integrated classes.

- TestNG parameterization feature is more convenient and easier to use.

- TestNG allows test methods to run in parallel.