Automation Testing

Assumptions

A Day in the Life of an Automation Test Engineer

Marcelo had recognized how to disable the annotation on both methods and classes to move further in his automation project.

Now, he has to understand assumptions, which ensure the correctness of the parameters, applications, and used to check logically impossible situations.

To achieve the above, he will learn a few concepts in his lesson that can help him to find a solution for the scenario.

Learning Objectives

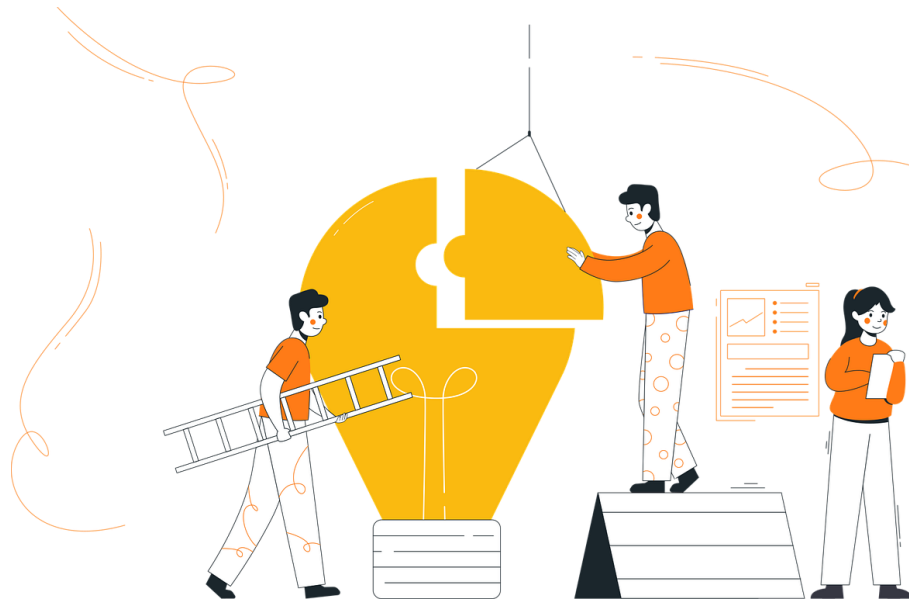By the end of this lesson, you will be able to:

◉ Define what are the assumptions in JUnit 5

◉ Identify what is the assumption methods

◉ Illustrate the application coming under the assumptions

◉ Categorize the modes of application

What Are Assumptions?
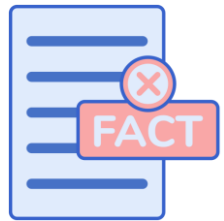
What Are Assumptions?

- Assumptions class is a set of utility methods that allow for the execution of conditional tests depending on assumptions.

- In contrast to failed assertions, failed assumptions do not result in a test failure rather, they cause a test to be canceled.

- Assumptions are often utilized when it is not logical to continue running a particular test procedure.

Example: import org.junit.jupiter.api.Assumptions;

Methods in Assumptions

Assumptions.assumeTrue(): If the condition is true then run the test, else abort the test.

Assumptions.false(): If the condition is false then run the test, else abort the test.

Assumptions.assumingThat(): It is much more flexible. If the condition is true then execute, else do not abort test and continue the rest of code in test.
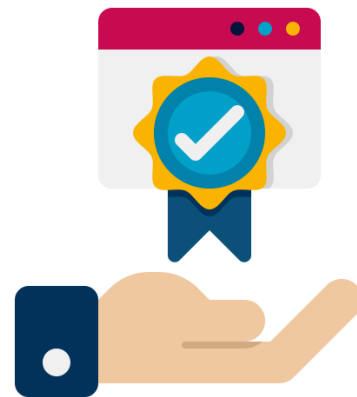
Applications of Assumptions

Applications of Assumptions

The application shall work in two modes:

External User Standalone

External User Network

Application of Assumptions

External User Standalone:

- This is a single-user, non-networked system.

- The database resides on the user's workstation.

Application of Assumptions

External User Network :

- This is a client instance of ACME (Automatic Certificate Management Environment).

- The client instance can run on a user's laptop or desktop.

- The database may be present on the user's workstation, or on another workstation or server.

Key Takeaways

- Assumptions are often utilized when it is not logical to continue running a particular test procedure.

- Assumptions.assumeTrue(): If the condition is true then run the test, else abort the test.

- The external user standalone database will reside on the user's workstation.

- The external user network is a client instance of ACME (Automatic Certificate Management Environment).

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