TestNG is a unit testing framework developed by Cédric Beust who built this tool in order to emulate and improve the JUnit unit testing framework. Since TestNG is an open source tool, it is free for users and can be obtained by downloading a plugin for a Java IDE (most Java IDEs, such as Eclipse and IntelliJ, support TestNG, or even come with it already installed). TestNG is a Java framework, and can be used by any language in JVM.

TestNG’s main purpose is to provide a framework for unit testing just like JUnit, however, TestNG also covers other types of testing such as integration, acceptance and functional tests. It provides a wider range of functionality that just unit tests all in one package making it a useful too for comprehensive testing of a program. Furthermore, TestNG also tries to improve the standard for unit tests set by JUnit by making annotations more flexible and able to handle a wider range of cases. For example, instead of just having the standard before and after annotations like JUnit, it have before and after test, suite, class, method, and group. This allows developers to be able to run tests as groups since some tests may have different dependencies than others which can be very useful for developers. TestNG also allows developers to write tests that accept parameters to be passed in, another feature not supported by JUnit. Other features of unit tests that TestNG supports are parallel test execution and more control over setting or modifying test fixtures.