

Framework Concepts - TestNG API

TestNG plays a major role in developing test automation frameworks for executing **Selenium Automation** scripts.

- **Installing TestNG**
 - Select Eclipse IDE > Help > Install New Software > Search for <http://beust.com/eclipse> and follow the remaining steps.
 - Confirm the installation from Eclipse IDE > Window > Show View > Other > Java > TestNG
- **Configure the Project with TestNG JAR file**
 - Create a Java Project, Package and Class
 - Create 'Libraries' folder under the project, download testng jar file from mvnrepository.com and then copy paste the downloaded jar file to the libraries folder
- **TestNG Annotations**
 - TestNG is an API similar to Java, Selenium WebDriver, POI and Log4J.
 - TestNG has a huge list of Annotations and below are few annotations we need to learn for Selenium:



- **@Test**
 - The purpose of this annotation is to represent the methods inside Java class as Tests.
 - This annotation replaces main() method in traditional Java programs - [Demonstrate](#)
 - Run as 'TestNG Test' and view the execution results in both Eclipse IDE Console and TestNG Results tab
 - Refresh the Project and view the TestNG report generated at 'test-output' > old > index.html
 - Demonstrate a program which has multiple **@Test** testNG annotated tests - [Demonstrate here](#)
 - Tests will be executed in alphabetical order
 - Demonstrate a program which executes the @Test annotated methods according to their priority - [Demonstrate here](#)
 - **priority** attribute of @Test annotation is used to prioritize the tests