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Framework Concepts - TestNG API

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

Installing TestNG

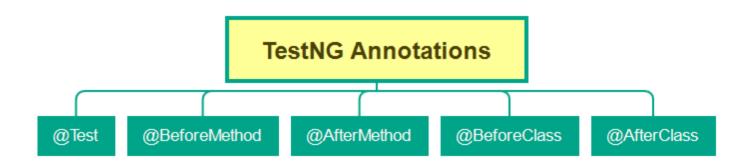
- Select Eclipse IDE > Help > Install New Software > Search for http://beust.com/eclipse and follow the remaining steps.
- Confirm the installation from Eclipse IDE > Window > Show View > Other > Java > TestNG

Configure the Project with TestNG JAR file

- Create a Java Project, Package and Class
- Create 'Libraries' folder under the project, download testing jar file from movine-pository.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 <u>here</u>
 - priority attribute of @Test annotation is used to prioritize the tests