**SELENIUM WEBDRIVER:-**

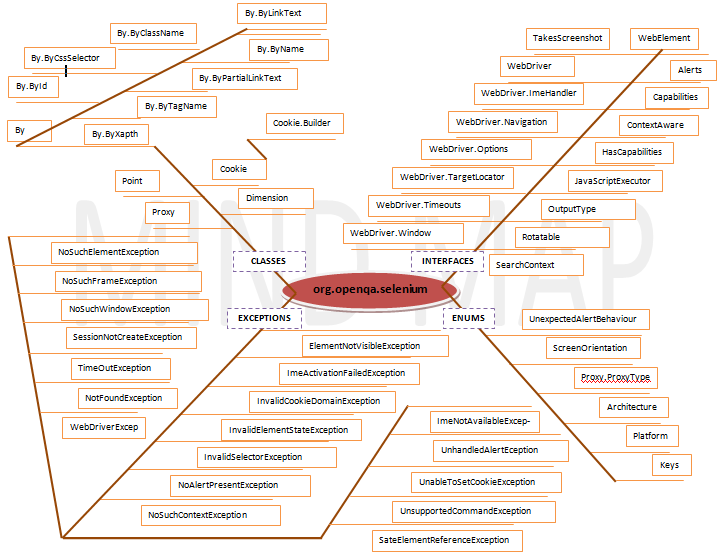
* Selenium web driver is a well-designed object oriented ***API*** that provides improved support for web-app testing problems.
* Supports dynamic web pages where the element of page may change even without reloading the page.
* All limitations of Selenium RC has overcome in web driver.

**LIMITIATIONS IN SELENIUM RC:-**

* In Selenium RC, using java script injection there occurs same origin policy issues. Web Driver has overcome this by having drivers for each different browsers.
* It is obvious to have server between application under test & test automation suite in Selenium RC. This makes Selenium RC slow compared to Web Driver.
* Redundancy of commands.
* RC cannot support headless browsers whereas Web driver can. Headless means- Running test suite with help of command line execution or by any network.

**FEATURES OF SELENIUM WEBDRIVER:-**

* It acts as interface between automation script and browsers. It has three categories of methods: control browsers, Web Elements selection, Debugging.
* Selenium Web driver supports all languages as there is provision to create thin wrapper on each language code and binding with them later. This lead to support of ‘**Multiple Languages**’ and when API supports all languages then it will support ‘**Multiple Browsers**’ in ‘**Multiple Platforms**’.
* Webdriver exists in global package called ***‘org.openqa.selenium’***. ‘Webdriver is an interface which comes under this package and a sub interface of ‘SearchContext’. SearchContext consists of ‘WebDriver’ & ‘WebElement’ as a sub interfaces.



* ‘***Firefox WebDriver***’ is a webdriver, which used to interact with webApps. This means that all drivers should have implementation contracted to WebDriver interface & hence all drivers called as WebDriver.

