

Selenium WebDriver

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- A) What is Selenium WebDriver?
- ➔ Selenium WebDriver is a web automation framework.
 - ➔ It allows user to automate web application.
 - ➔ User can execute automated test cases.
 - ➔ It supports browsers like IE, Firefox, Chrome, Opera, Safari and Ghost Driver to execute test cases against different browsers.
- B) Programming languages support by Selenium WebDriver.
- ➔ WebDriver supports different-different programming languages to create test scripts.
 - ➔ WebDriver Supports following languages:
 - a. Java
 - b. .Net
 - c. PHP
 - d. Python
 - e. Perl
 - f. Ruby
 - ➔ User do not have to know all of these languages. User just need to be knowledgeable in one.
 - ➔ Java and Python is most demanded languages using in WebDriver.
- C) What is Selenium RC (Remote Control)?
- ➔ Selenium Remote Control was the older version of Selenium WebDriver.
 - ➔ It use to run a separate RC Server to interact with Web Browser. (Unlike Selenium WebDriver which directly interact with Web Browser).
- D) Advantages of WebDriver.
- ➔ WebDriver is pure Open Source, Freeware and Portable tool.
 - ➔ WebDriver supports variety of languages.
 - ➔ WebDriver supports many Operating Systems like Windows, Macintosh, Linux, Unix etc.
 - ➔ WebDriver supports multiple Browsers.
- E) Limitations of WebDriver.
- ➔ Selenium only supports web based application.
 - ➔ It does not support windows based application.
 - ➔ It is difficult to test image based application.
 - ➔ Selenium need outside support for report generation.

Installation

- Selenium WebDriver is a framework but it does not have GUI. It's just a bunch of JAR files.
- We have to use Eclipse to create a Selenium WebDriver Project and have to configure WebDriver with Eclipse.
- Prerequisites(Following Software should be install in your machine):
 - Java Development Kit(Suggested 1.7)
 - Eclipse IDE for Java Developers.

Note: Make sure the Windows bit (32/64).

Installation Reference: - [Click Here](#)

- Configure Eclipse IDE with WebDriver:
 - Create Java Project.
 - Go to **Properties** of Java Project.
 - On the Properties dialog, click on "Java Build Path".
 - Click on the **Libraries** tab, and then Click on "Add External JARs".
 - Select and Add **Selenium WebDriver JAR** files.

(Create Java Package, Class and start coding ;P)