Session-1 Basics

Friday, July 8, 2022   6:38 PM

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SESSION#1 BASICS

Today's Topics

- **What is Selenium**
- **Components of Selenium**
- **What is Selenium Web Driver**
- **Advantages and Disadvantages of Selenium Web Driver**
- **Frequently Asked Interview Questions**
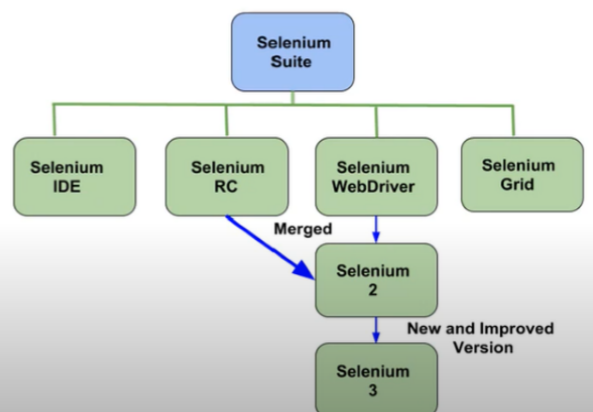
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What is Selenium

- It is **open source** Automation Test Suite for **web based application** across **different browsers** (Chrome, Firefox, Opera etc.) and **different platforms** (Windows, Linux, Mac OS)

- It supports **multiple programming languages** : Java, c#, Python, Ruby etc.

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Components of Selenium

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What is Selenium IDE ?

- Selenium IDE Stands for **Selenium Integrated**

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Development Environment

- It is **Simple** and **easy** to use

- **No prior programming knowledge** is required

- It is used as **prototyping tool**

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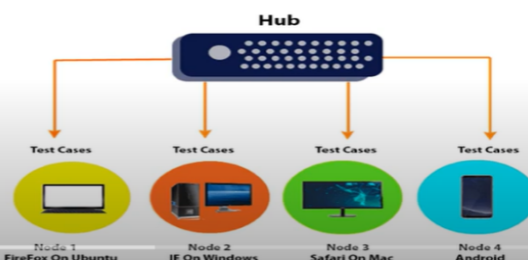## BASICS

What is Selenium Web Driver ?

- It is a **component** of Selenium Suite

- It is a **Java Interface,** implemented by browser classes

- It is an **API (Application Program Interface),** mediator between browser and client libraries

- It has **various commands** to interact with Web Elements

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What is Selenium Grid?

- It allows test cases to run **parallelly** in
  - Different machines
  - Different platforms
  - Different browsers

Hub

Test Cases   Test Cases   Test Cases   Test Cases

Node 1   Node 2   Node 3   Node 4
FireFox On Ubuntu   IE On Windows   Safari On Mac   Android
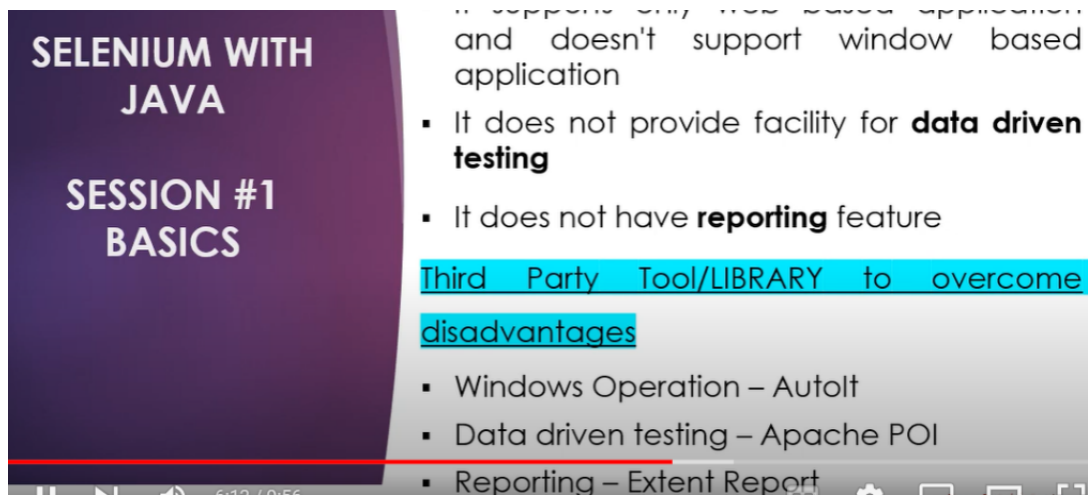

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Advantages of Selenium Web Driver

- It is a **open source(free)** tool

- It supports **multiple browsers** (Firefox, Chrome, Opera etc.)

- It supports **multiple platforms**(Windows, Linux, Mac OS etc)

- It supports **multiple languages** (Java, Python, Ruby, C# etc.)

Disadvantages of Selenium Web Driver

- It supports only web based application

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It supports only web based application and doesn't support window based application

- It does not provide facility for **data driven testing**

- It does not have **reporting** feature

Third Party Tool/LIBRARY to overcome disadvantages

- Windows Operation – AutoIt
- Data driven testing – Apache POI
- Reporting – Extent Report

Frequently Asked Interview Questions

- What are the components of Selenium
- What are the operating Systems Supported by Selenium
- What are the browsers supported by Selenium
- What is web driver
- What programming languages are supported by Selenium web driver
- What is Selenium Grid
- What are the testing types supported by Selenium

Regression testing:- in this testing we will run the selenium code script and check the new did module is not impacting on the existing code.

Function Testing : - check the validate of the software.