This course is about automation testing using Selenium

What is software testing?

Is process to find defects in the software. Making sure software is according to the client’s requirements.

There are different types of testing such as black box testing and white box testing.

Software testing is a part of software development cycle.

In black box testing we don’t know internal structure of the software. On the other hand, white box testing needs programming skills and we know internal software structure.

In this course we focus on black box testing which is focused on functional testing.

There is two ways to perform the test:

1) Manual

2) Automation: using any tool to perform the test

Manual Testing: Testing software manually whether it is working according to customer requirements or not.

Automation testing: Testing software by using automation tool.

Manual testing

Re-testing: Test Case multiples (different sets of data, after fixing the bug)

Regression testing: cross check other functionally in the software works fine after a bug fix.

Manual test takes Time and effort.

Automation Over comes the problems in manual testing.

1) Reduce time

2) Reduce human effort.

why programming is required to learn automation tool...

As a tester we need to provide the instruction (using programming language) to the automation tool.

What is Selenium?

Selenium is web-based automation tool.

Selenium was originally developed by Jason Huggins in 2004 Thought Works Company

Selenium is open source (Free)

Selenium is collection of multiple components (IDE, RC, WebDriver, Grid)

There are three types of software application:

1- Desktop/window-based application

2-web based application

3-mobile app application

Selenium is used to test web-based application only.

Selenium Advantages:

1) Open-source tool

2) Multiple operating systems

3) Supports multiple browsers

4) Support multiple Languages (java, python, c#, Ruby, JavaScript etc.)

5) Integrate third party tools in to selenium

DisAdv/Limitations

1) Cannot support windows-based applications (Autoit, Sikuli, Robot API)

2) Reporting not supported (TestNG, Extent reports)

3) Cannot support excel files (Apache poi)

4) graphs, captua

5) Can’t automation Angular JS applications (Protractor)