Automation

Selenium

Selenium Architecture

Download and install

What is Automation?

“Process of converting manual test cases into automation script using automation tool with programming language”

When we should go for automation?

1.long term project

2.when more regression cycles

3.more repetitive task

4.quality product

Advantages of Automation

1.Resuability of code

2.Avoid repetitive task

3.less man power

4.Time save

5.Accuracy in result

6.Improve the quality of application

Types of Automation tools

1.Functional AT

“Inorder to automate the FT,IT,ST”

1.Commercial tool

1.QTP

2.Testcomplete

3.RFT

4.Silk test

2.Opensource

1.Selenium IDE

2.Selenium webdriver

3.Appium

4.Winium

5.RestAssured

6.SoapUI

2.Non Functional AT

“Inorder non functional tc like performance related tc”

1.commerical tools

1.LoadRunner

2.Neo load

3.Jmeter

Opensource

1.Noload

2.appload

Types of Applications

1.Computers

1.Web application

2.Standalone

3.Client server

2.Phone

1.Web application

1.Android🡪chrome

2.IOS-🡪safari

2.Native

1.Android-🡪java

2.IOS-🡪swift,Objective c

3.Hybrid application🡪native and web

Chapter-1

Selenium

What is selenium?

It is a opensource webapplication

Testautomation tool

Opensource

1.We can see source code

2.Downlaod the source code

3.customise it

Webapplication

Open through the browser

TestAutomation

Performing the testing of the application automatically without using manual intervention.

Tool

It is a software

Why Selenium/Advantages

1.Free and Open source tool

Free-🡪we don’t pay

Cost of my project less

Open source

2.Its supports multiple programming language

1.java

2.python

3.ruby

4.C#

5.perl

6.javascript

7.R

8.TCL

9.Dart

10.Haskell

11.Obective c

12.PHP

3.Browser

1.chrome

2.firefox

3.opera

4.IE

5.edge

6.safari

7.Browser🡪android🡪chrome

8.IOs🡪safari

9.headbrowser

3.operating system

1.windows

2.linux

3.mac

4.unix..?

No browser

Drawbacks/Disadvantages

1.100% automation not possible

1.Audio and video

2.OTP

3.captch

4.i am not a robot

5.Barcode

6.Printer

7.finger prints

8.face recognition

9.image comparison

2.good knowledge programming

3.3rd party tools

4.only Webapplication