Chapter-1

What is Automation?

Automation process of converting any manual testcases into automation script by using automation tool with programming language.

When we should start automation?

1.Long term project

2.when we need quality software in short span of time

3.need avoid more repetitive task

4.more regression cycles are available

Advantages of Automation

1.Time saving

2.Resuability

3.Repeabitity

4.accurarcy in result

5.avoid repetition task

6. less human resources

7.improves quality of application

Types of Automation tools

1.Functional

“in order to automate FTC,ITC,ETE “

1.QTP

2.Testcomplete

3.RFT

4.Silk test

1.Selenium WebDriver

2.Selenium IDE

3.Appium

4.Winium

5.SoapUI

6.Rest Assured

2.Non functional

“to automate non functional testcases like performance related testcases”

1.LoadRunner

2.Jmeter

3.RP

4.No load

5.App load

What is not automatable?

1.Audio & video related tc

2.OTP related TC

3.Printer related TC

4.Barcode

5.Capatcha

6.I am not robot

7.Finger printer

8.face reorganization

9.Embeded

Selenium

“it is open source web application test automation tool”

Opensource-🡪

1.View source code

2.Download

3.Modify

WebApplication🡪any application that launches through the browser

Eg:Facebook.com,gmail.com,skillrary.com

TestAutomation-🡪Performing the testing of the application automatically without using any manual intervention

Tool🡪it is software

Application

1.Webapplication

2.destop

3.client server

Mobile Application

1.Native

1.Android🡪chrome

2.IOS------🡪safari

2.webapplication

3.Hybrid application

Why Selenium/Advantages of selenium

1.Free and open source tool

Free🡪we no need pay (cost of the project less)

Open source🡪view,download,modify

Customization cost is also reduced

(integrating selenium with third party tool)

2.Multiple browser

1.Chrome

2.firefox

3.IE

4.Edge

5.opera

6.safari

7.android🡪chrome

8.IOS-🡪safari

9.operablink

10.ipad

3.Support programming language

1.Java

2.Python

3.Ruby

4.C#

5.Perl

6.R

7.TCL

8.Javascript

9.Dart

10.Object C

4.Multiple Operating system

Windows

Linux

Unix it is not supported

Disadvantages/Drawback of selenium

1.Only web application can be tested

2.3rd party tool

3.OTP

4.Audio and video

5.Image

6.Cpatcha

7. I am not a robot

8.Barcode

9.Finger printers

10.knowledge on programming

Components/Flavors

1.Selenium core

2.Selenium RC

3.Selenium IDE

4.2004 JASON SeleniumWebDriver

5.Appium

7.winium

8.selendroid

9.selenium grid