Automation: Testing the given application using tool or a program.

How to automate:

We automate the testing using program or a tool where we configure the tests to be executed

And add assertions.

Get the reports.

UIAutomation- web application automation – Selenium- (IDE(tool),RC,Grid,WebDriver), Casper.js,Protractor-Angular.JS apps, Nightwatch.js ,SilkTest,QTP

WebServicesAutomation-RestAPI’s Automation – HttpClient,RestAssured, Chakram, SoapUI tool

MobileAutomation- Appium,Perfecto,Calabash

Advantages of automation:

Saves time and resources

Regression testing –

DataDrivenTesting- testcases will be repeated with different sets of data- valid/invalid, boundary values

CrossBrowserTesting- Mozilla,chrome,IE,safari etc

CrossPlatform- mac, windows,linux….

ManualTesting-ErrorProne sometimes

When to Automate and When not to Automate?

Tight DeadLines – we cannot automate under tight dead lines

When UI changes /going to change in future then do not automate that particular module.

When application is not going to change at all and its already in maintenance- meaning no enhancements or no new user stories – then also no need to automate

Selenium: 2004- Jason from thoughtworks

IDE – It is a record and playback tool for UI automation, it is plugin in firefox

Command- action

Target- html element (textbox,link,plaintext,dropdown,checkbox,radio,)which you are using to automate

Value- text you are giving as input in text box

RC

grid

Webdriver: