AUTOMATION -TESTING -JAVA

THEORY

AUTOMATION TESTING (SELENIUM)

1. Software’s for Testing:

* QTP (UFT)
* RFT
* Selenium web services(best of all in market)
  + It supports languages Python, Java, C#, JavaScript, ruby etc.
  + It automates browsers
  + It is best for regression testing: i.e., it is mainly used to test new features added to already present website and see if new features created any problem to old features.

1. Flow of Testing:

* Manual Testing
* SQL
* Core java
* Selenium
* Agile SCRUM Process
* API Testing.

1. Selenium workspace set-up:

* Step 1: [www.selenium.div](http://www.selenium.div)
* Step 2: downloads 🡪 Latest stable version 🡪 JAVA 🡪Stable 🡪Zip file.
* Step 3: Extract zip file into a folder.
* Step 4: launch eclipse 🡪 create a java project 🡪add all jars 🡪 right click🡪properties🡪add external jars 🡪2+lib folder all🡪 apply and close.
* Step 5: download gicko driver for Firefox / chrome driver for chrome and copy the .exe file and paste it in project folder.
* Note: browser to run we require Execution engine and that is gicko driver/chrome Driver.
* Step 5: If possible, read documentation in their website.

1. Steps To launch FIREFOX BROWSER & Navigate to Particular URL by Selenium:

* Step 1: follow selenium workspace setup from step 4.
* Step 2: create a main class.
* Step 3: FirefoxDriver driver = **new** FirefoxDriver ();
* Step 4: driver.get("http://www.facebook.com"); // launch web site of given link

1. Steps To launch CHROME BROWSER & Navigate to Particular URL by Selenium:

* Step 1: follow selenium workspace setup from step 4.
* Step 2: create a main class.
* Step 3: ChromeDriver driver = **new** ChromeDriver ();
* Step 4: driver.get("http://www.facebook.com"); // launch web site of given link

1. Locators:

* It is basically used to locate a particular field which we want to fill by selenium.
* Types:
  + Id -Tag: (driver.findElement(By.*id*(" id -Tag”)).sendKeys(“ enter which we want to print”);)
  + Name- Tag: (driver.findElement(By.*name*(" name-Tag”)).sendKeys(“ enter which we want to print”);)
  + X-path: (driver.findElement(By.*xpath*(" x- path”)).sendKeys(“ enter which we want to print”);)
    - Steps to get Xpath: inspect a field which we want xpath of 🡪select element🡪right click🡪copy🡪 copy full xpath.
    - HTML page 1

<html>

<head>

</head>

<body>

name <input type="text" name ="firstname" id="nid"/>

city<input type="text" name ="city" id="cid"/>

</body>

</html>

Hierarchy

1)html

2)body

3)input

4) input

X-path: html/body/input[1]

* + - HTML page 2

<html>

<head>

</head>

<body>

name <input type="text" name ="firstname" id="nid"/>

city<input type="text" name ="city" id="cid"/>

</body>

</html>

Hierarchy

1)html

2)body

3)input

4) input

X-path: html/body/input