

# Software Testing Assignment

## Module–1(Fundamental)

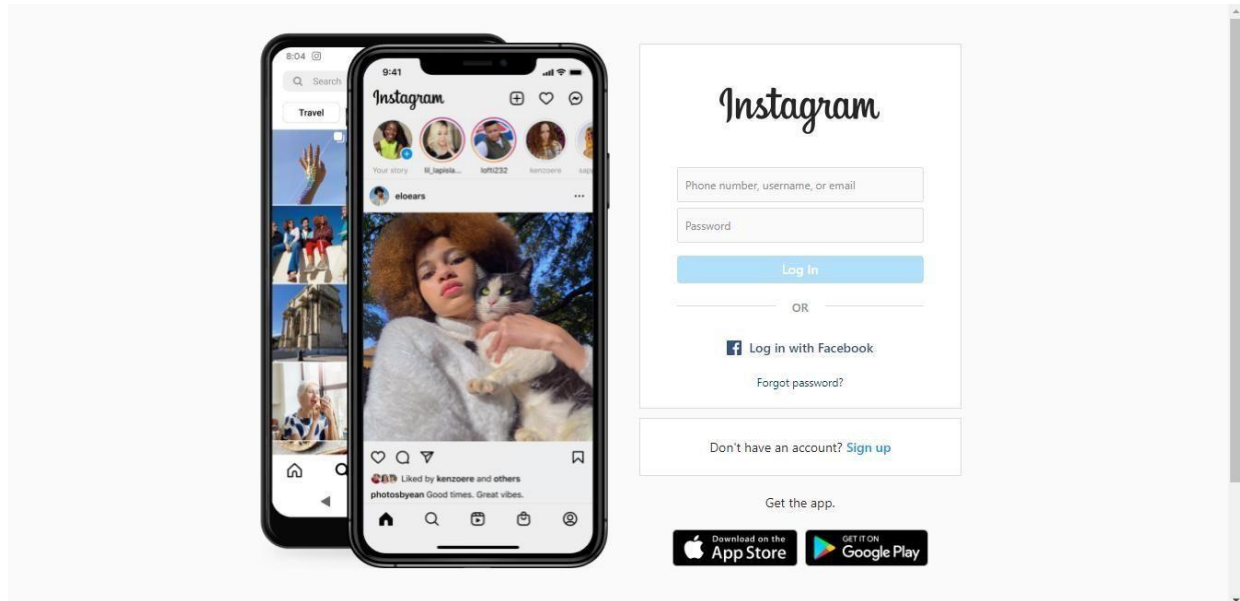
- What is SDLC
- What is software testing?
- What is agile methodology?
- What is SRS
- What is oops
- Write Basic Concepts of oops
- What is object
- What is class
- What is encapsulation
- What is inheritance
- What is polymorphism
- Draw Usecase on Online book shopping
- Draw Usecase on online bill payment system (paytm)
- Write SDLC phases with basic introduction
- Explain Phases of the waterfall model
- Write phases of spiral model
- Write agile manifesto principles
- Explain working methodology of agile model and also write pros and cons.
- Draw usecase on Online shopping product using COD.
- Draw usecase on Online shopping product using payment gateway.

## Module–2(Manual Testing)

- What is Exploratory Testing?
- What is traceability matrix?
- What is Boundary value testing?
- What is Equivalence partitioning testing?
- What is Integration testing?
- What determines the level of risk?
- What is Alpha testing?
- What is beta testing?
- What is component testing?
- What is functional system testing?
- What is Non-Functional Testing?
- What is GUI Testing?
- What is Adhoc testing?
- What is load testing?
- What is stress Testing?
- What is white box testing and list the types of white box testing?
- What is black box testing? What are the different black box testing techniques?
- Mention what are the categories of defects?
- Mention what bigbang testing is?
- What is the purpose of exit criteria?
- When should "Regression Testing" be performed?
- What is 7 key principles? Explain in detail?
- Difference between QA v/s QC v/s Tester
- Difference between Smoke and Sanity?
- Difference between verification and Validation
- Explain types of Performance testing.
- What is Error, Defect, Bug and failure?
- Difference between Priority and Severity
- What is Bug Life Cycle?
- Explain the difference between Functional testing and NonFunctional testing

- To create HLR & TestCase of

1)(Instagram , Facebook) only first page



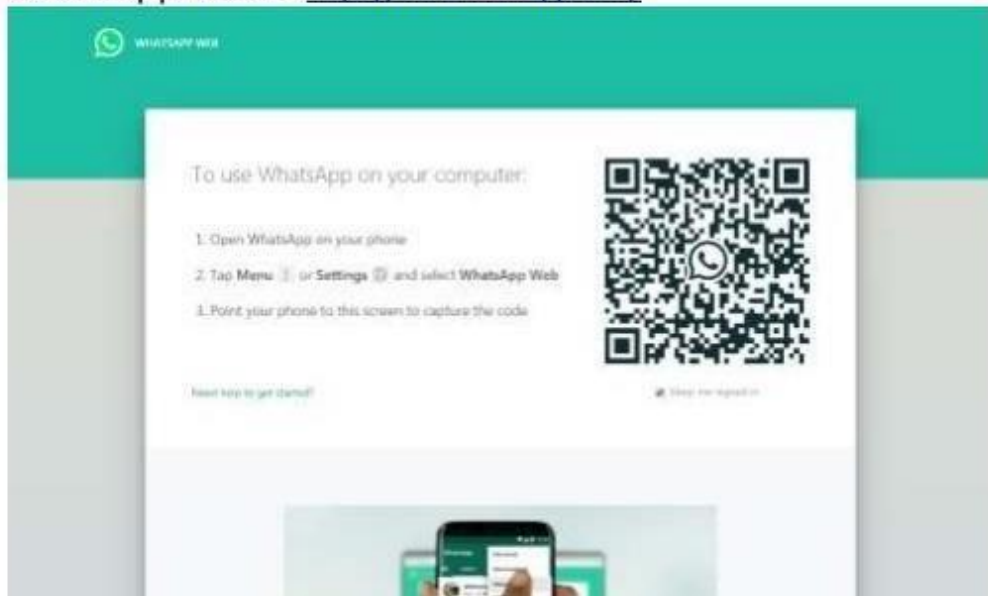
2) Facebook Login Page : <https://www.facebook.com/>



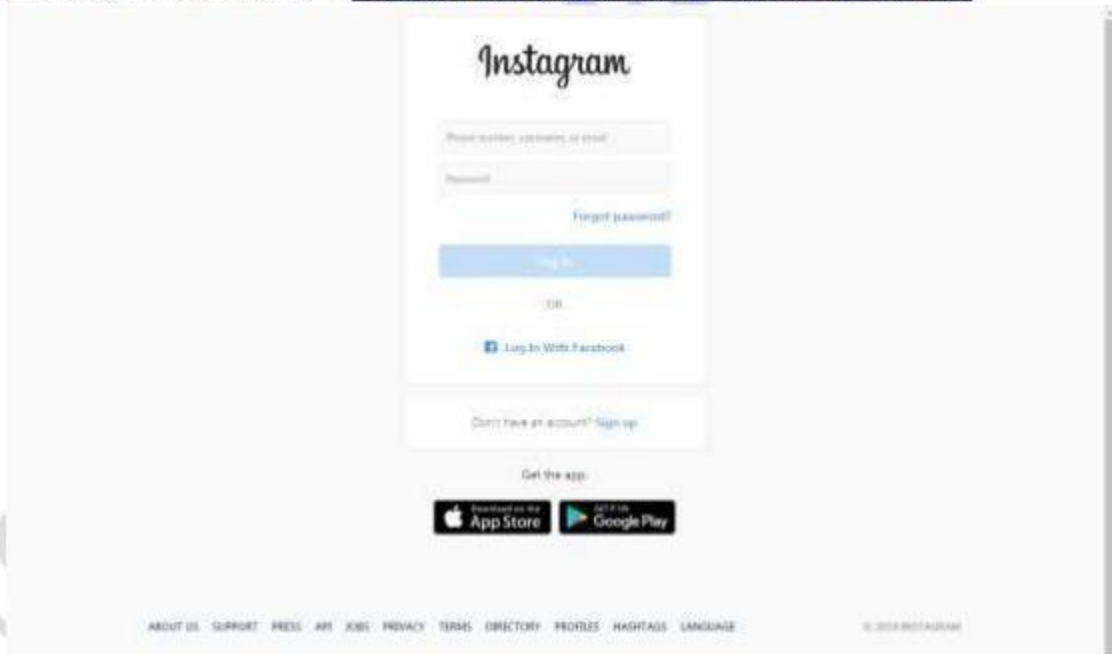
- What is the difference between the STLC (Software Testing Life Cycle) and SDLC (Software Development Life Cycle)?

- What is the difference between test scenarios, test cases, and test script?
  - Explain what Test Plan is? What is the information that should be covered.
- 
- What is priority?
  - What is severity?
  - Bug categories are...
  - Advantage of Bugzilla .
  - Difference between priority and severity
  - What are the different Methodologies in Agile Development Model?
  - Explain the difference between Authorization and Authentication in Web testing. What are the common problems faced in Web testing?
- ❓ To create HLR & TestCase of WebBased (WhatsApp web , Instagram) 1. WhatsApp Web : <https://web.whatsapp.com/>

1. WhatsApp Web : <https://web.whatsapp.com/>



## 2.Instagram Web : <https://www.instagram.com/accounts/login/?hl=en>



- To create HLR and TestCase on this Link. <https://artoftesting.com/>

Keep in touch

Reach us for query or concern regarding any post on ArtOfTesting, we will try our best to resolve your query.

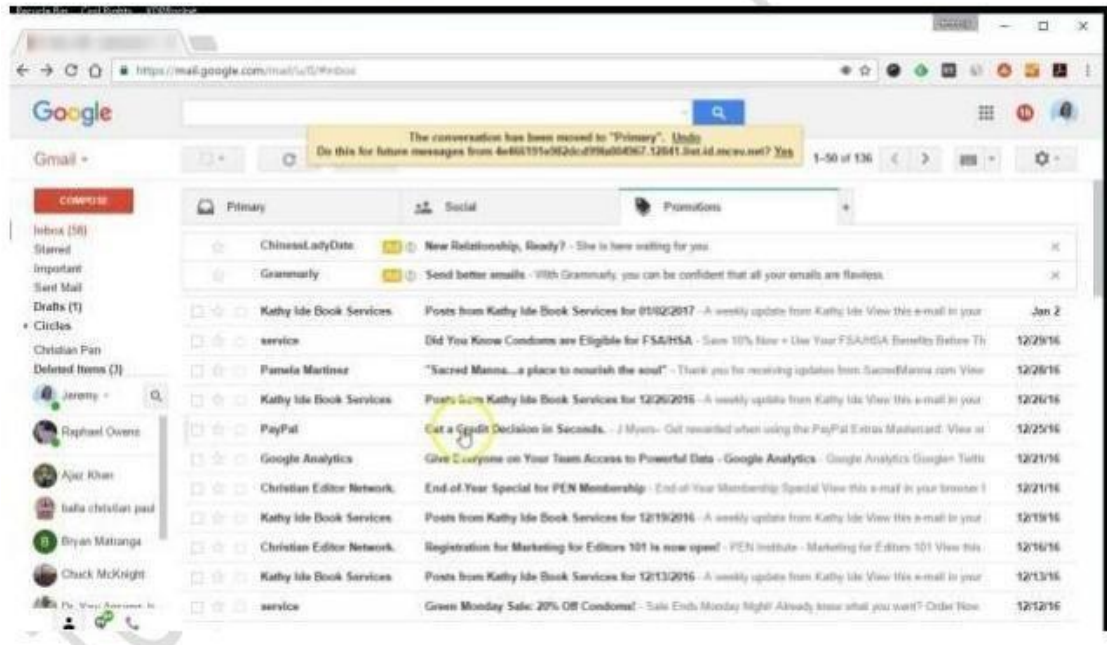
Name	Email
Subject	
Message	

SEND MESSAGE

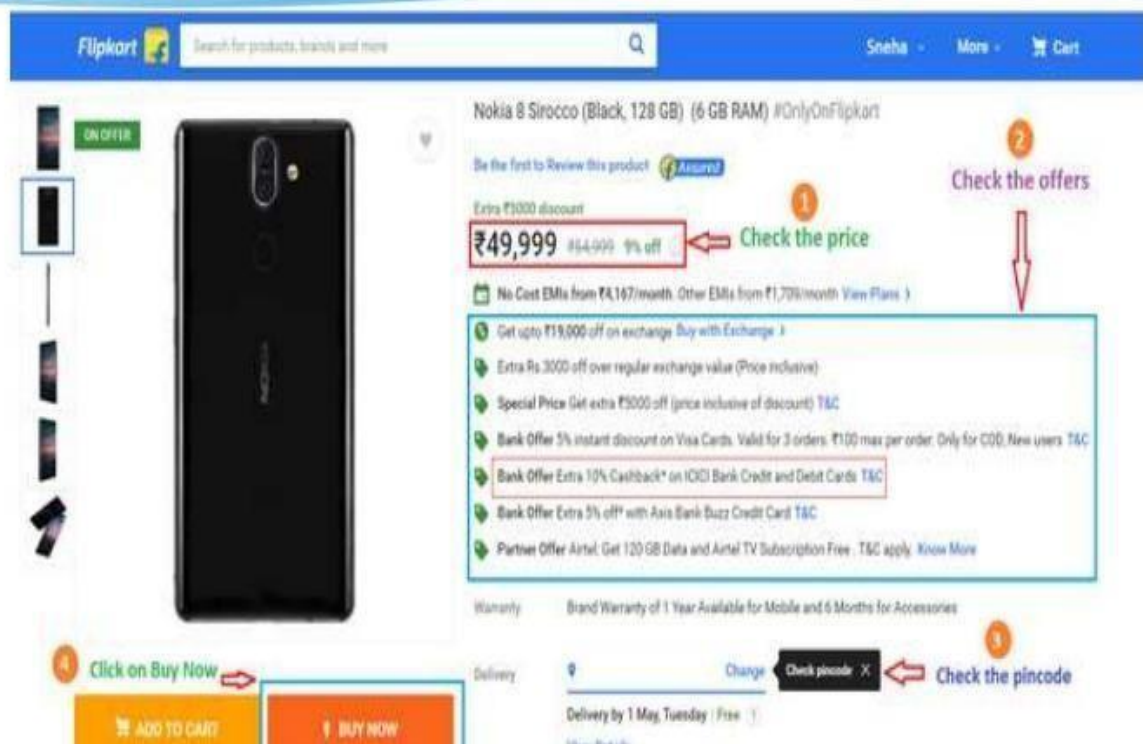
- Write a scenario of only Whatsapp chat messages
- Write a Scenario of Pen
- Write a Scenario of Pen Stand
- Write a Scenario of Door
- Write a Scenario of ATM
- When to used Usablity Testing?
- What is the procedure for GUI Testing?
- Write a scenario of Microwave Owen
- Write a scenario of Coffee vending Machine

- Write a scenario of chair
- To Create Scenario (Positive & Negative)

## 2. Gmail (Receiving mail)



## 2. Online shopping to buy product (flipkart)

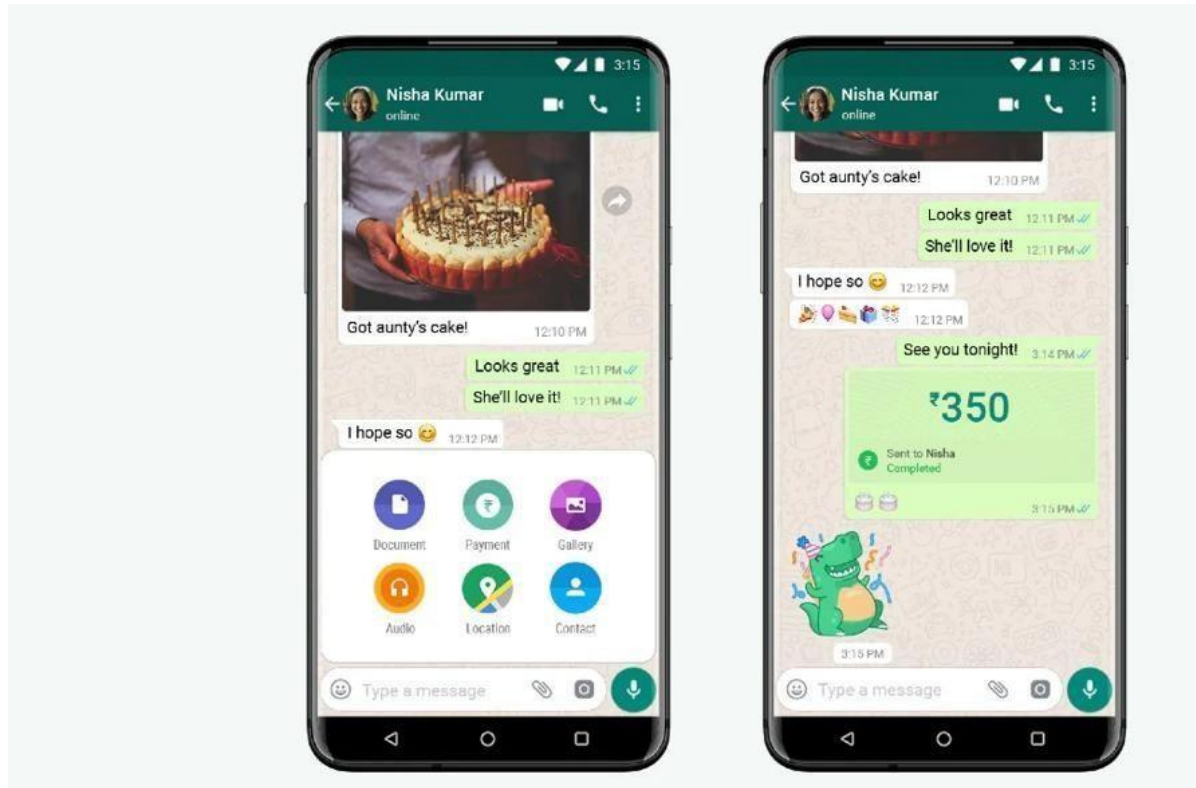


- Write a Scenario of Wrist Watch
- Write a Scenario of Lift(Elevator)
- Write a Scenario of whatsapp Group (generate group)





- Write a Scenario of Whatsapp payment





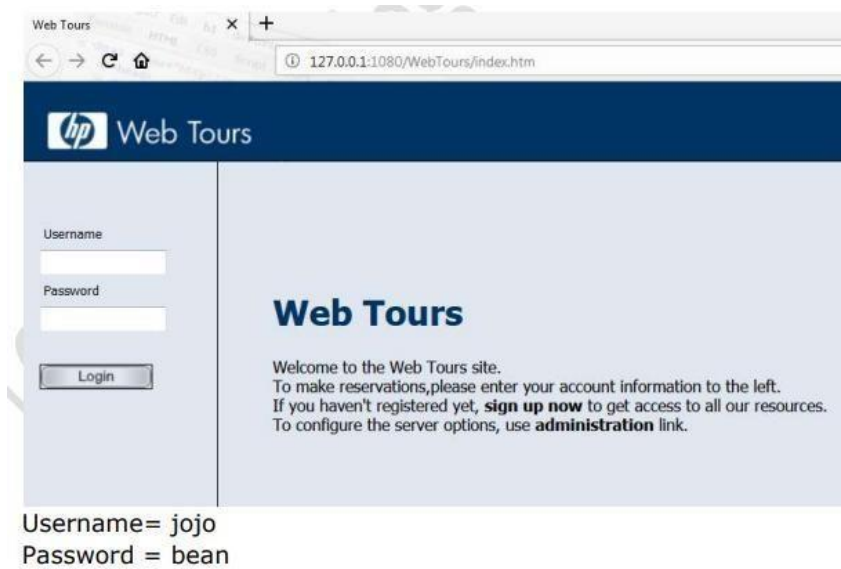
## Module 3 (Testing on Live Application)

- What is RDBMS
- What is SQL
- Write SQL Commands
- What is join?
- Write type of joins.
- How Many constraint and describes it self
- Difference between RDBMS vs DBMS
- What is API Testing
- Types of API Testing
- What is Responsive Testing?
- Which types of tools are available for Responsive Testing
- What is the full form of .ipa, .apk
- How to create step for to open the developer option mode ON?
- To check

## Module-4 Automation Core Testing (Load Runner Up and Selenium IDE)

- Which components have you used in Load Runner?
- How can you set the number of Vusers in Load Runner?
- What is Correlation?
- What is the process for developing a Vuser Script?
- How Load Runner interacts with the application?
- How many VUsers are required for load testing?
- What is the relationship between Response Time and Throughput?
- To test the Performance testing on “Tops Technologies website” :-  
<https://www.saucedemo.com/>
  1. to Record all top level menu
  2. to Record minimum 10 Vuser on this website
  3. save all (Script,Design,Graph)

- create a normal script of above website with correlate using hp default website.



Selenium IDE)

- What is Automation Testing?
- Which Are The Browsers Supported By Selenium Ide?
- What are the benefits of Automation Testing?
- What are the advantages of Selenium?
- Why testers should opt for Selenium and not QTP?
- To validate the tops technologies website Contact us page and enter your friend detail at last "Login and sidemenu" <https://www.saucedemo.com/>

## Advanced Selenium

### Assignments Module – 5 (Selenium IDE)

- What is Automation Testing?
- Which Are The Browsers Supported By Selenium Ide?
- What are the benefits of Automation Testing?
- What are the advantages of Selenium?
- Why testers should opt for Selenium and not QTP?
- To validate the Swaglab website Login and logout process page  
<https://www.saucedemo.com>

### Assignments Module – 6 (Core Java)

- W.A.J.P to Take three numbers from the user and print the greatest number.
- W.A.J.P in Java to display the first 10 natural numbers using while loop.
- W.A.J.P to find factorial for Given Number.
- W.A.J.P to check given number is Prime or not?
- W.A.J.P to check given number is Armstrong or not?
- W.A.J.P for create Fibonacci Series.
- W.A.J.P to Print pattern Given Below.

1)

1

12

123

1234

12345

2)

1

12

123

1234

12345

3)

1

01

101

01010

101010

4)

1

2 2

3 3 3

4 4 4 4

5)

\*

\* \* \*

\* \* \* \* \*

\* \* \*

\*

- WAP to compute the sum of the first 100 prime numbers.
- WAP to sum values of an array.
- WAP to calculate the average value of array elements.
- WAP to find the index of an array element.
- WAP to find the maximum and minimum value of an array.
- WAP to Compare Two String.
- WAP to concatenate a given string to the end of another string.
- WAP to demonstrate try catch block.
- WAP to demonstrate multiple catch blocks
- WAP to create one thread by implementing Runnable interface in Class.
- WAP to create one thread by extending Thread class in another Class.
- WAP to iterate through all elements in an array list.
- WAP to update specific array element by given element.
- WAP to remove the third element from a array list.
- WAP to Copy one array into another
- WAP to reverse an array of integer values.
- WAP to find the second largest element in an array.
- W.A.J.P. Create an abstract class 'Parent' with a method 'message'. It has two subclasses each having a method with the same name

'message' that prints "This is first subclass" and "This is second subclass" respectively.

Call the methods 'message' by creating an object for each subclass.

- W.A.J.P. which will ask the user to enter his/her marks (out of 100). Define a method that will display grades according to the marks entered as below:

Marks	Grade
91-100	AA
81-90	AB
71-80	BB
61-70	BC
51-60	CD
41-50	DD
<=40	Fail

- W.A.J.P. to create a custom exception if Customer withdraw amount which is greater than account balance then program will show custom exception otherwise amount will deduct from account balance.

Account balance is:2000 Enter withdraw  
amount:2500

Sorry, insufficient balance, you need more 500 Rs.To perform  
this transaction.

## Module – 7 (Selenium Webdriver)

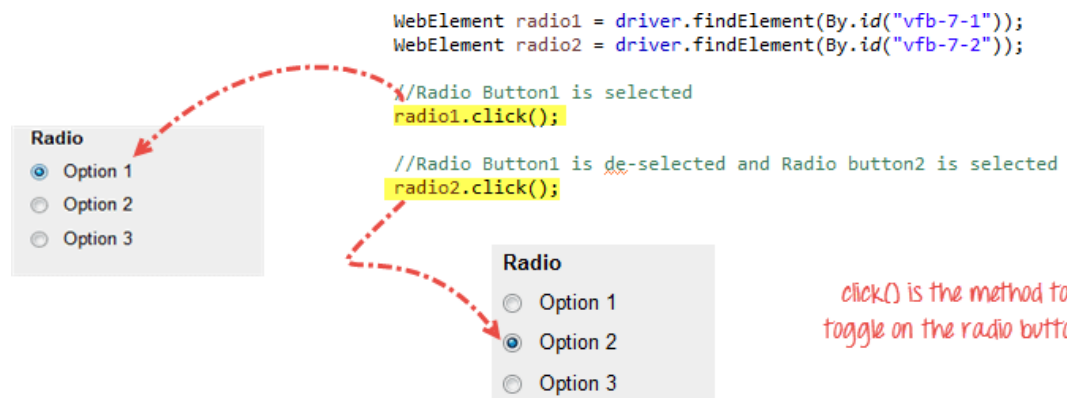
**Demo Websites To Practice selenium Webdriver**

# Website List

- 1 List of Websites to Practice Selenium

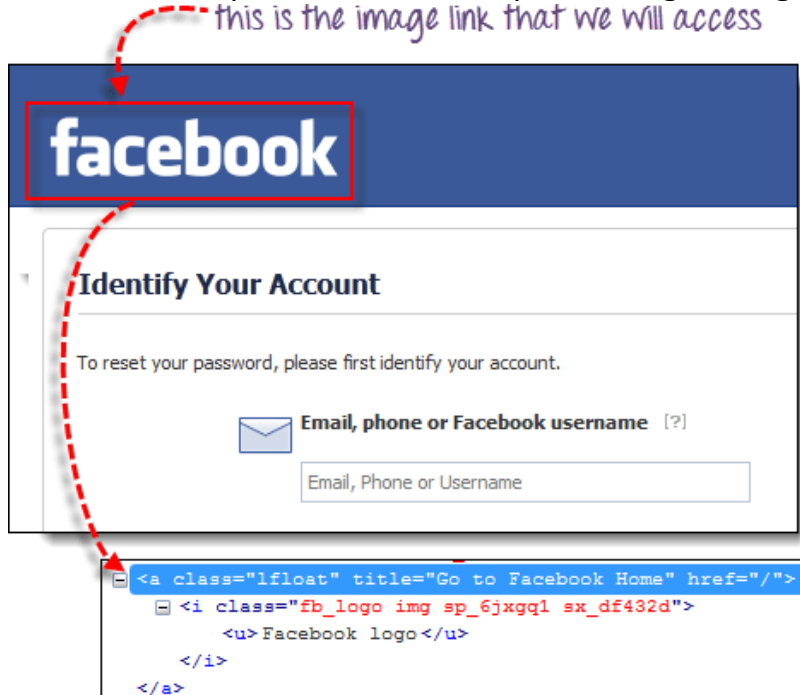
- 1.1 1. <https://phptravels.com/demo/>
- 1.2 2. <http://thedemosite.co.uk/>
- 1.3 3. <http://newtours.demoaut.com/>
- 1.4 4. <http://the-internet.herokuapp.com/>
- 1.5 5. <http://automationpractice.com/index.php>
- 1.6 6. <http://book.theautomatedtester.co.uk/>
- 1.7 7. <https://s1.demo.opensourcecms.com/wordpress/>

- W.A.J.Script for Locating links by linkText() and partialLinkText()
- W.A.J.Script for Selecting multiple items in a drop dropdown
- W.A.J. script to use different methods to manage the windows-alerts and pop ups.
- W.A.J.script to register your self in Gmail.
- W.A.J. Script To perform the radio button to select one by one in loop  
<http://demo.guru99.com/test/radio.html>



*click() is the method to toggle on the radio buttons*

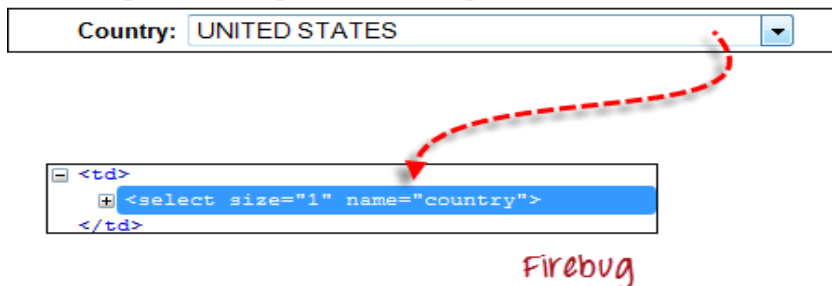
- W.A.J. script To write the script for image of logo facebook using xpath.



- W.A.J.Script To write a script for drop down.

<http://demo.guru99.com/test/newtours/register.php>

*Mercury Tours Registration Page*

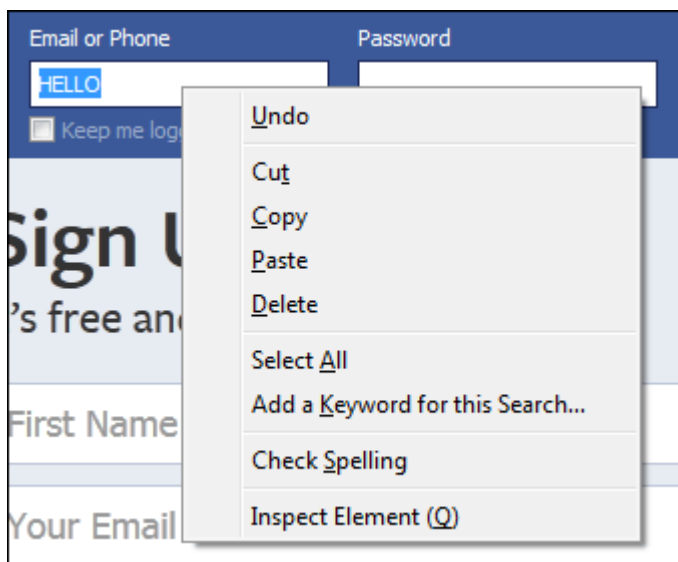


- W.A.J.Script To use Mouse and Keyboard event using Action class
  - 1.Mouse Hover Event

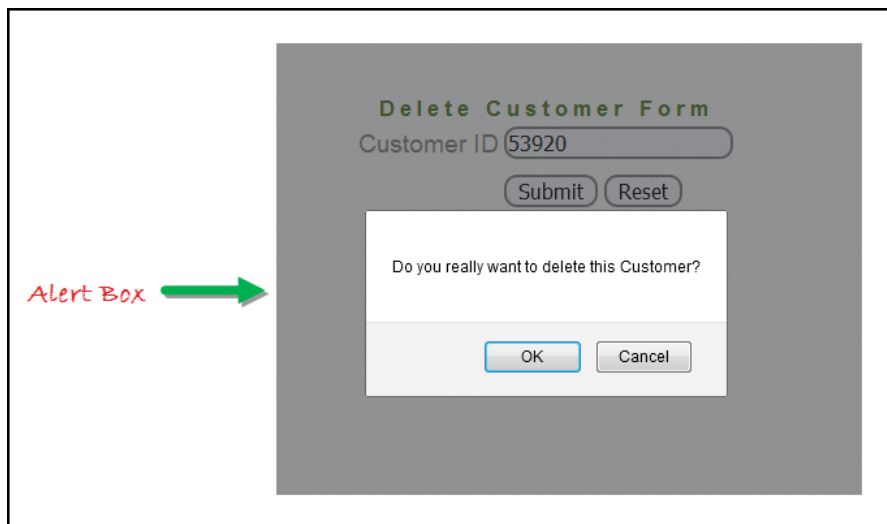




## 2. Keyboard event



- W.A.J. Script How to handled Alert in selenium  
["http://demo.guru99.com/test/delete\\_customer.php"](http://demo.guru99.com/test/delete_customer.php)



- W.A.J. Script To find the total hyperlink from this web page  
<http://demo.guru99.com/test/web-table-element.php>

## Top Gainers BSE | NSE new

Last updated: 16 Sep, 12:12

### Gainers

**Daily** Weekly Monthly

### Losers

Daily Weekly Monthly

All | **Group A** | Group B | Group M | Group T | Group MT | Group Z

Company	Group	Prev Close (Rs)	Current Price (Rs)	% Change
<a href="#">Den Networks Ltd.</a>	A	72.55	77.60	+ 6.96
<a href="#">United Breweries Ltd</a>	A	821.10	874.35	+ 6.49
<a href="#">Balrampur Chini</a>	A	102.40	108.50	+ 5.96
<a href="#">Sintex Industrie</a>	A	78.65	82.90	+ 5.40
<a href="#">Thermax</a>	A	822.90	865.00	+ 5.12

- W.a. junit program to handled Assert class with all method to check its pass or fail
- W.a. junit program to perform test with webdriver to login process of facebook
- W.a. junit program to check gmail login using with @before, @after, @Test
- W.a. junit program to use parameterized demo with multiple parameter of Facebook login in junit.
- W.a. TestNG program to perform test with webdriver to login process of facebook
- W.a. TestNG program to check gmail login using with @beforetest, @aftertest, @Test
- W.a. TestNG program to use parameterized demo with multiple parameter of Facebook login with TestNG.
- W.a. TestNG program to create group with testing.xml file
- w.a. TestNG program to create dataprovider.

## Module – 8 (Automation Testing Framework)

- W.a. framework program for data driven framework
- to get value from the excel and check into your website  
(<http://automationpractice.com/index.php?controller=authentication&back=my-account>) Direct check with login which emaild through login successful or not)

	A	B
1	<a href="mailto:rahul.sanghavi.mca@gmail.com">rahul.sanghavi.mca@gmail.com</a>	rahul12345
2	<a href="mailto:rahul@gmail.com">rahul@gmail.com</a>	rahul
3		
4		

- W.a.framework program for keyword driven framework  
-given below keyword which you get from the Excel and check into youwebsite (<http://automationpractice.com/index.php>)

1	open browser
2	enter url
3	click signin
4	enter email
5	enter password
6	click login
7	click logout
8	close browser
9	

- W.a.framework program for hybrid driven framework  
-given below keyword and Data both which you get from the Excel andcheck into you website (<http://automationpractice.com/index.php>)

	A	B
1	open browser	null
2	enter url	<a href="http://automationpractice.com/index.php">http://automationpractice.com/index.php</a>
3	click signin	null
4	enter email	<a href="mailto:rahul.sanghavi.mca@gmail.com">rahul.sanghavi.mca@gmail.com</a>
5	enter password	rahul12345
6	click login	null
7	click logout	null
8	close browser	null
9		

- W.a.maven program to create simple webdriver Program
- W.a.maven program to create Junit with webdriver Program**
- W.a.maven program to create TestNG with Webdriver Program.

## Module – 9 (APPIUM Testing)

- 1) Write an Appium Program to connect with emulator and open APIdemo.app application on your emulator
- 2) Write an Appium Program to connect with Realdevice and open APIdemo.app application on your realdevice.

- 3) Write an Appium Program to connect with emulator with ecommerce based application using Generalstore.app to perform locators like name, dropdown etc.
- 4) Write an Appium Program to connect with emulator with ecommerce based application using Generalstore.app to perform swipe demo to swipe the menu.
- 5) Write an Appium Program to connect with realdevice using APIDemo.app to perform longpress to open to side menu.
- 6) Write an Appium Program to connect with realdevice using APIDemo.app to perform scrolling the all option.
- 7) Write an Appium Program to connect with realdevice using APIDemo.app to open the calculator and calculate all the operation like (addition, subtraction, multiplication, division).

## Module – 10 (API Testing)

Api testing link : <https://restapilive.onrender.com/>

### E-commerce Application RESP API

#### User module

API type	API	Details	Params	Result
POST	<a href="https://restapilive.onrender.com/userreg">https://restapilive.onrender.com/userreg</a>	user registration	[fname,lname,email,phno,pass,gender]	success message on proper data
POST	<a href="https://restapilive.onrender.com/userlogin">https://restapilive.onrender.com/userlogin</a>	user login	[email,pass]	get auth token on successfully login , error message on invalid credentials

#### Admin module

API type	API	Details	Params	Result
POST	<a href="https://restapilive.onrender.com/adminlogin">https://restapilive.onrender.com/adminlogin</a>	admin login	[email : "admin@gmail.com", password : "admin"] : default login	get auth token on successfully login
Product category				
POST	<a href="https://restapilive.onrender.com/addcategory">https://restapilive.onrender.com/addcategory</a>	add product category	[catname] header : [admin-auth-token : got from admin login]	product category stored in db and return added category info
GET	<a href="https://restapilive.onrender.com/category">https://restapilive.onrender.com/category</a>	view product category	[admin-auth-token : got from admin login]	all product category
GET	<a href="https://restapilive.onrender.com/deletecategory">https://restapilive.onrender.com/deletecategory</a>	delete product category	header : [admin-auth-token : got from admin login], params : [did : category id]	deleted category info

Activate Windows  
Go to Settings to activate Windows.

- 1) to test in above API which is passed in parameter as a column in user module to check the registration performed or not and get the result is coming or not (Method=POST)
- 2) to test in above API which is performed login with using parameter in user module and check generate token or not (Method=POST)
- 3) to test in above API which is performed login with using parameter in admin module and check generate token or not (Method=POST)
- 4) to test in above API which is performed login with using parameter in admin module and check generate token header : [admin-auth-token : got from admin login] and add category with the help of token (Method= POST)

- 5) to test in above API which is performed login wit using parameter in admin module and check generate token [admin-auth-token : got from admin login] to display all the category (Method=GET)
- 6) to test in above API which is performed login wit using parameter in admin module and check generate token[admin-auth-token : got from admin login] to delete the category (Method=GET)