

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 bill payment system (paytm)
- Draw Usecase on banking system for customers.
- Draw Usecase on Broadcasting System.
- 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 OTT Platform.
- Draw usecase on E-commerce application
- Draw usecase on Online shopping product using payment gateway.

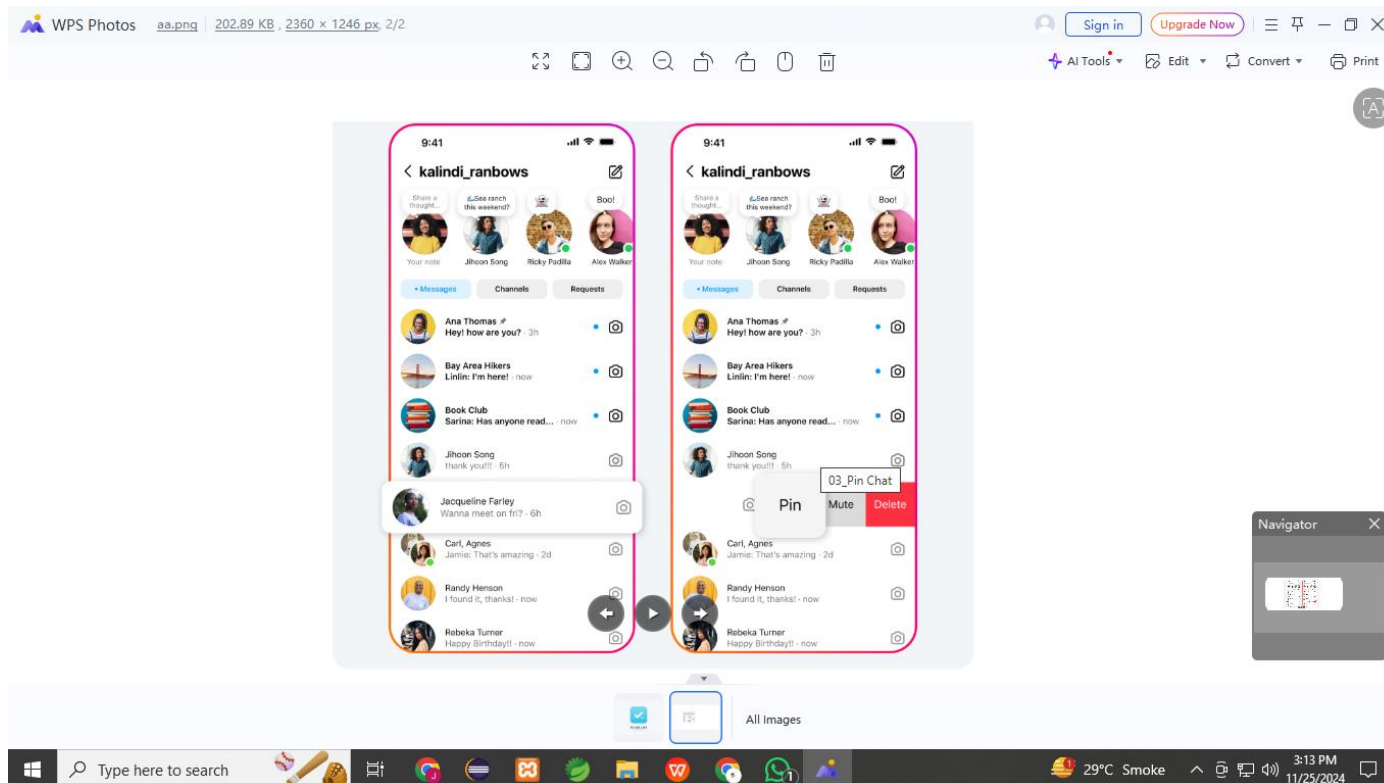
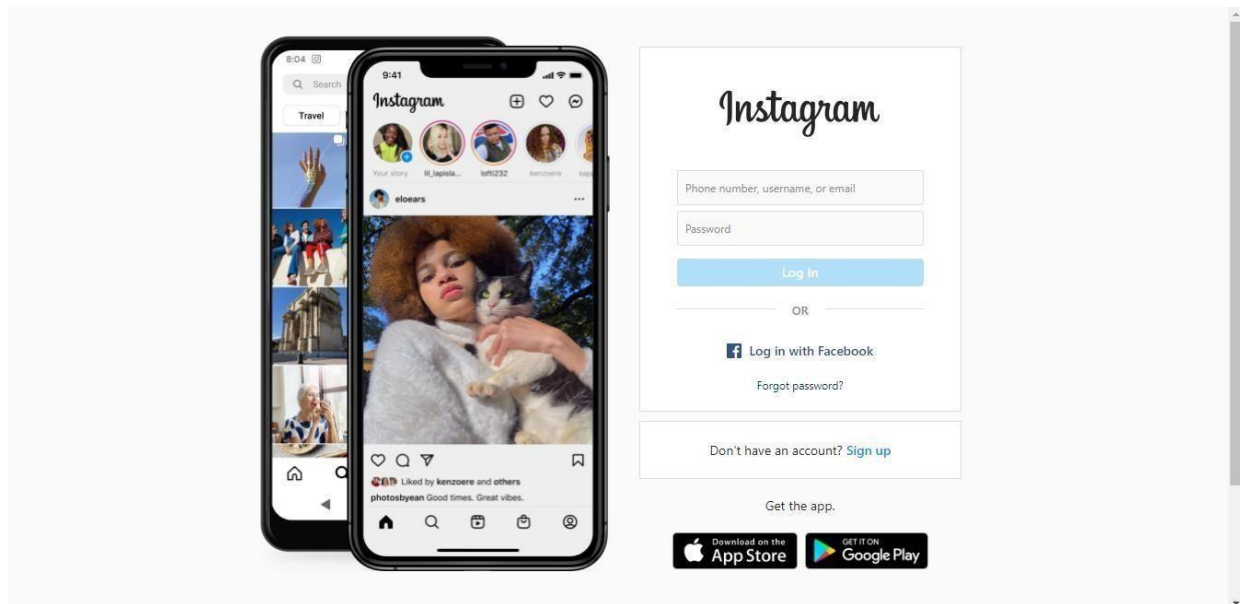
Module–2(Manual Testing)

- 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

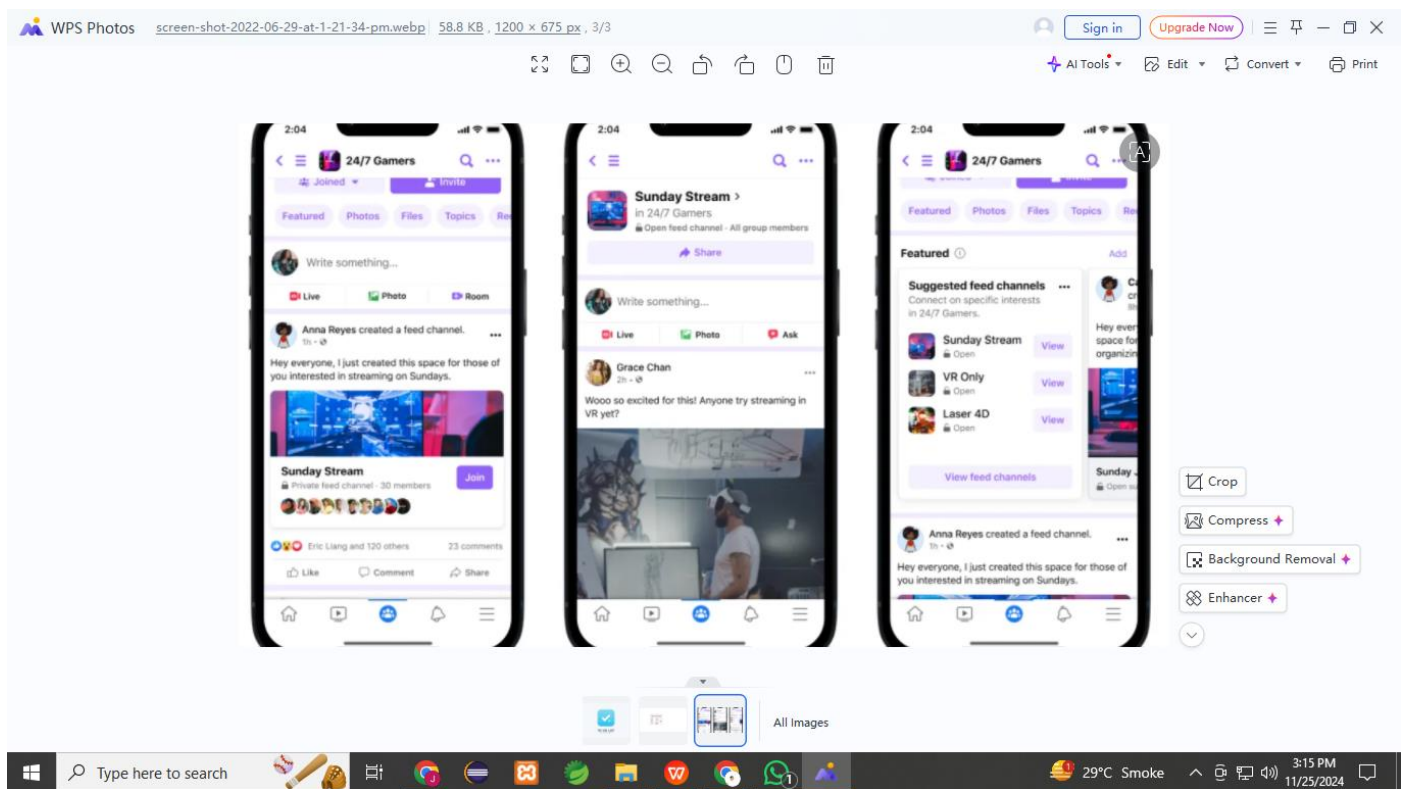
- What is Bug Life Cycle?
- Explain the difference between Functional testing and NonFunctional testing

- To create HLR & TestCase of

1)(Instagram , Facebook) first page and chat functionality



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



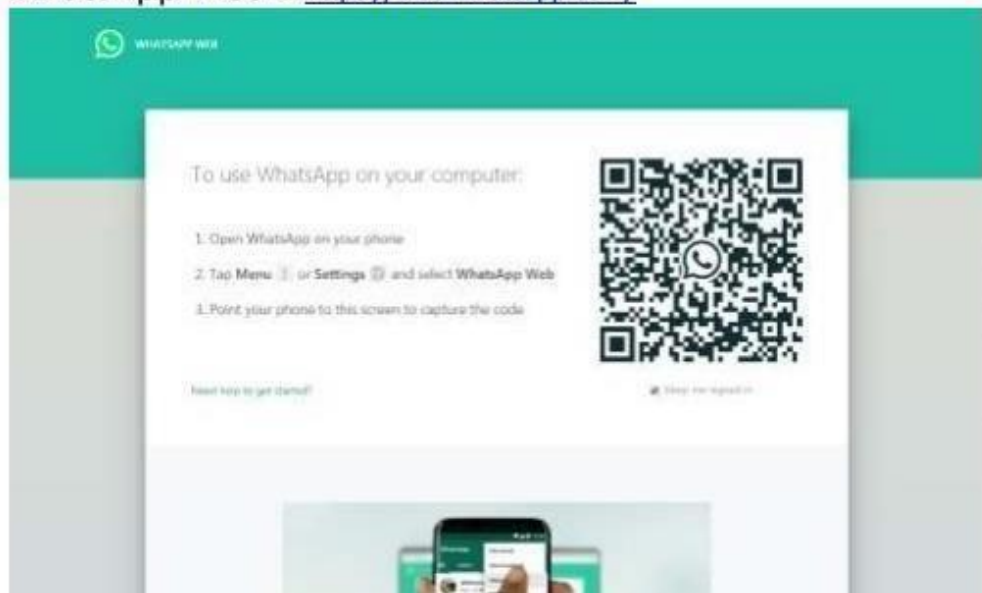
- What is the difference between the STLC (Software Testing Life Cycle) and SDLC (Software Development Life Cycle)?

- 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)

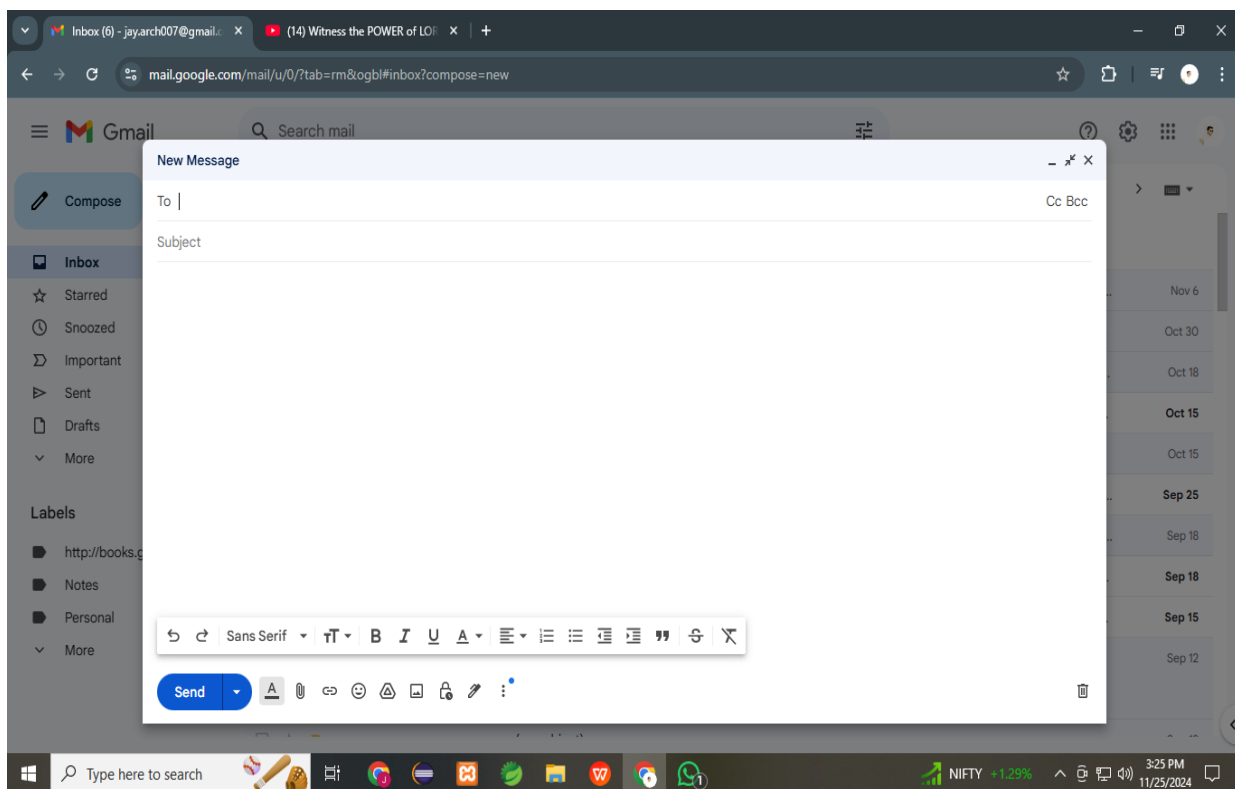
1. WhatsApp Web : <https://web.whatsapp.com/>

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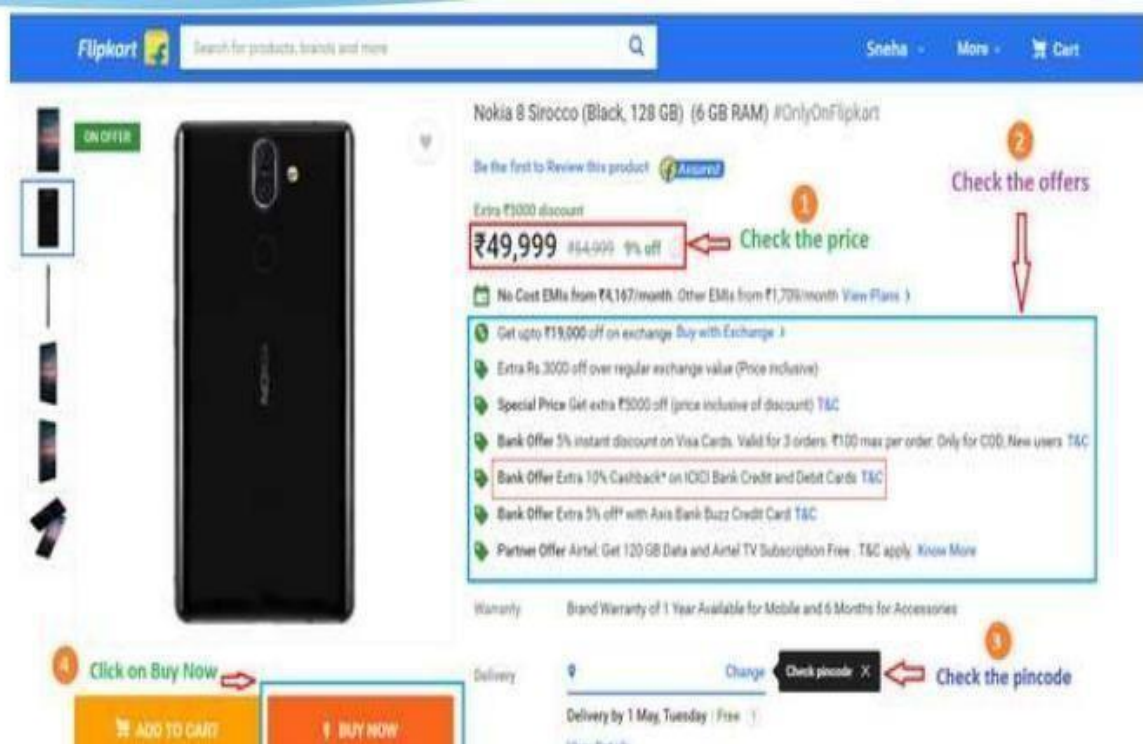


- Create TestCases on Whatsapp Group Chat.
- Create TestCases on

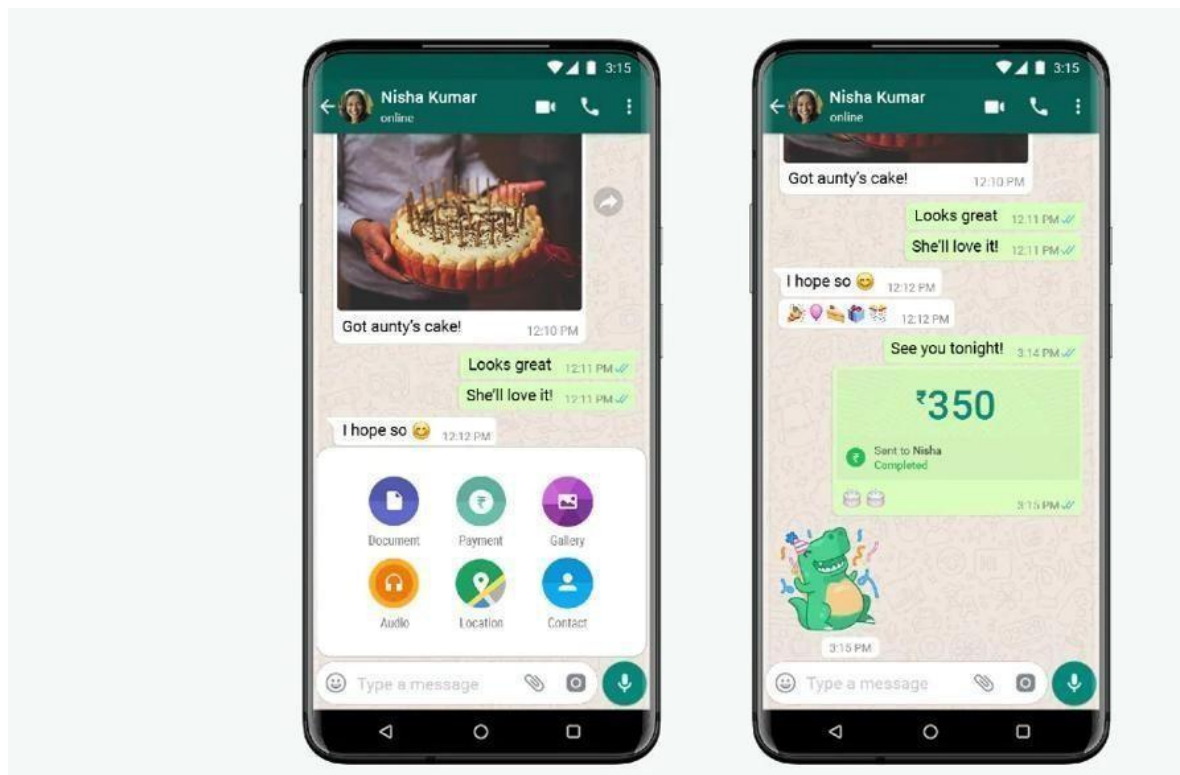
- Write a scenario of only Whatsapp chat messages
- Write a Scenario of Pen
- Write a Scenario of Pen Stand
- Write a Scenario of Door
- Write a Scenario of ATM
- When to used Usablity Testing?
- What is the procedure for GUI Testing?
- Write a scenario of Microwave Owen
- Write a scenario of Coffee vending Machine
- Write a scenario of chair
- To Create Scenario (Positive & Negative)
- Create Test Cases on Compose Mail Functionality.



2. Online shopping to buy product (flipkart)



- Write a Scenario of Wrist Watch
- Write a Scenario of Lift(Elevator)
- Write a Scenario of Whatsapp payment



Module 3 (Testing on Live Application)

<https://opensource-demo.orangehrmlive.com/web/index.php/auth/login>

1. Open above URL where you can see username and password login into app.
2. Create HLR of Admin, PIM, Recruitment and Dashboard section.
3. Create Scenario of above mentioned sections.
4. Create Test cases Leave, Time, MyInfo and Claim Section.
5. Generate Test Plan for this application.

Module-4 Database

- 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 an SQL alias?
- Write a query to create the table in Structured Query Language.
- Write a query to insert data into table.
- Write a query to update data into table with validations.
- Write a query to delete data from table with validations.
- Write a query to insert new column in existing table.
- Write a query to drop table and database.
- Write a query to find max and min value from table.
- Create two tables named Seller and Product apply foreign key in product table
Fetch data from both table using different joins.
- 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?

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 tops technologies website Contact us page and enter your friend detail at last “Login and sidemenu” <https://www.saucedemo.com/>

Advanced Selenium

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.

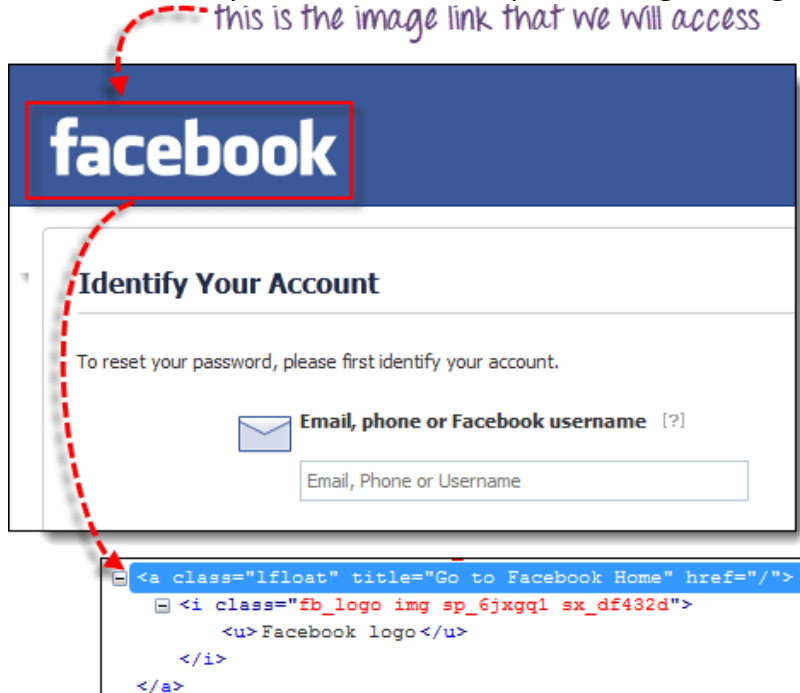
Module – 7 (Selenium Webdriver)

Demo Websites To Practice selenium Webdriver

Website List

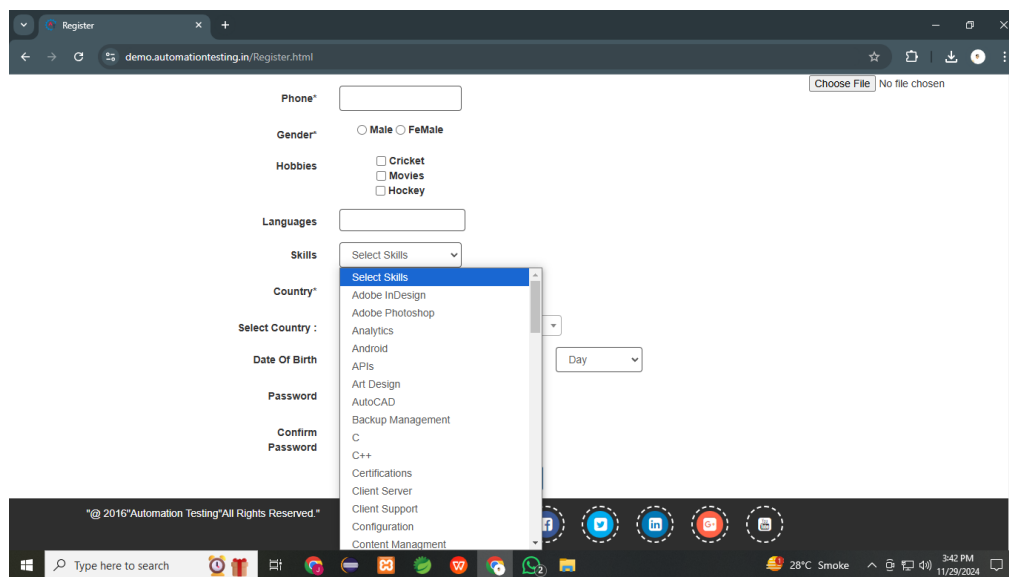
- 1 List of Websites to Practice Selenium
 - 1.1 1. <https://phptravels.com/demo/>
 - 1.2 2. <https://the-internet.herokuapp.com/>
 - 1.3 3. <https://www.globalsqa.com/angularJs-protractor/BankingProject/#/login>
 - 1.4 4. <https://parabank.parasoft.com/parabank/services.htm>
 - 1.6 5. <https://magento.softwaretestingboard.com/>
- 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
<https://demo.automationtesting.in/Register.html>

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

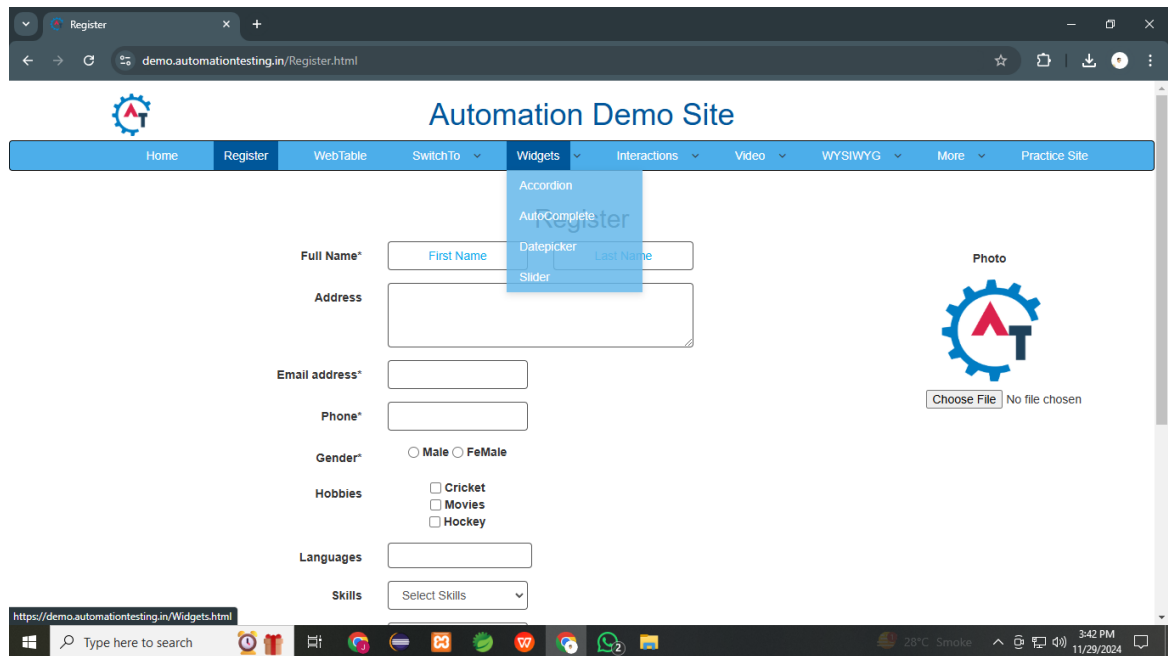


- W.A.J.Script To write a script for drop down.

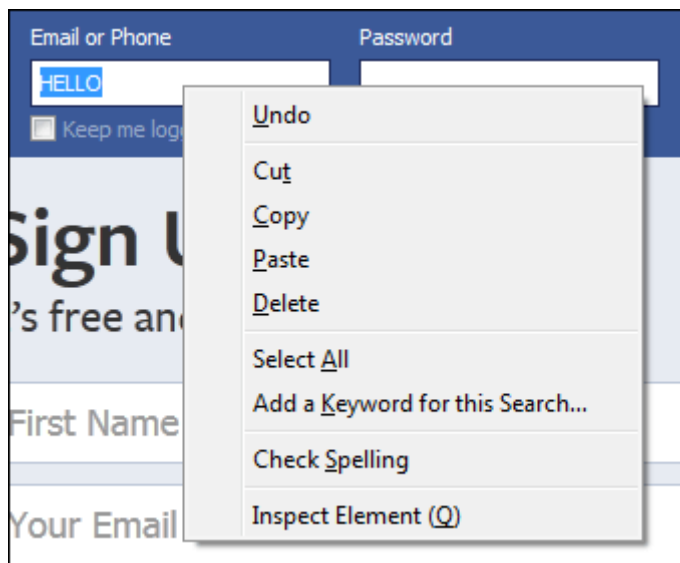
<https://demo.automationtesting.in/Register.html>



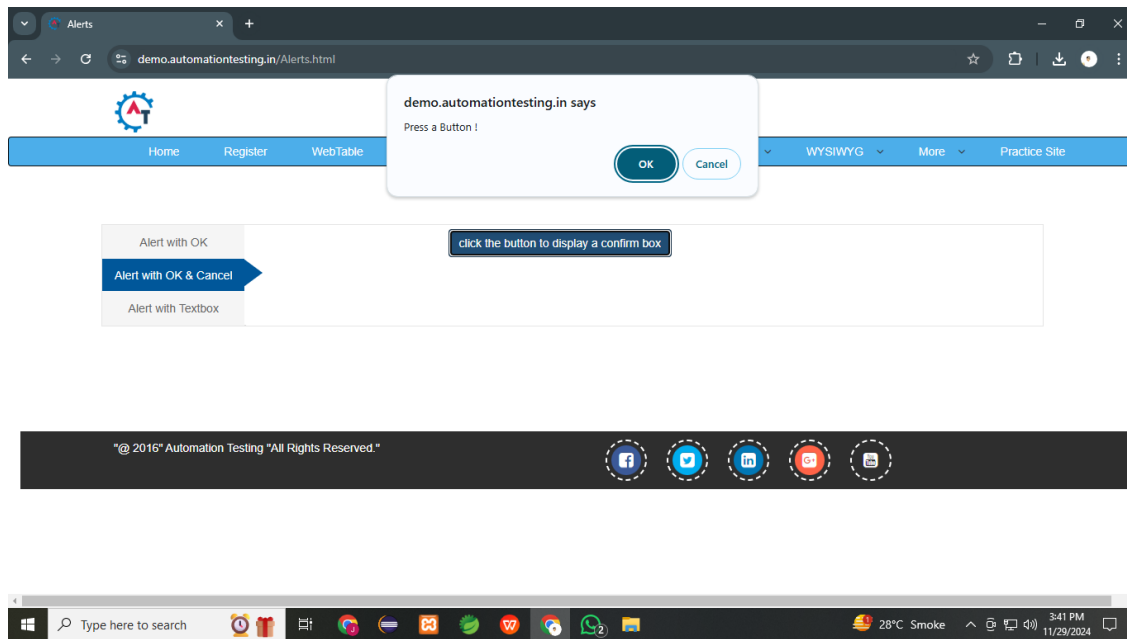
- W.A.J.Script To use Mouse and Keyboard event using Action class
1. Mouse Hover Event



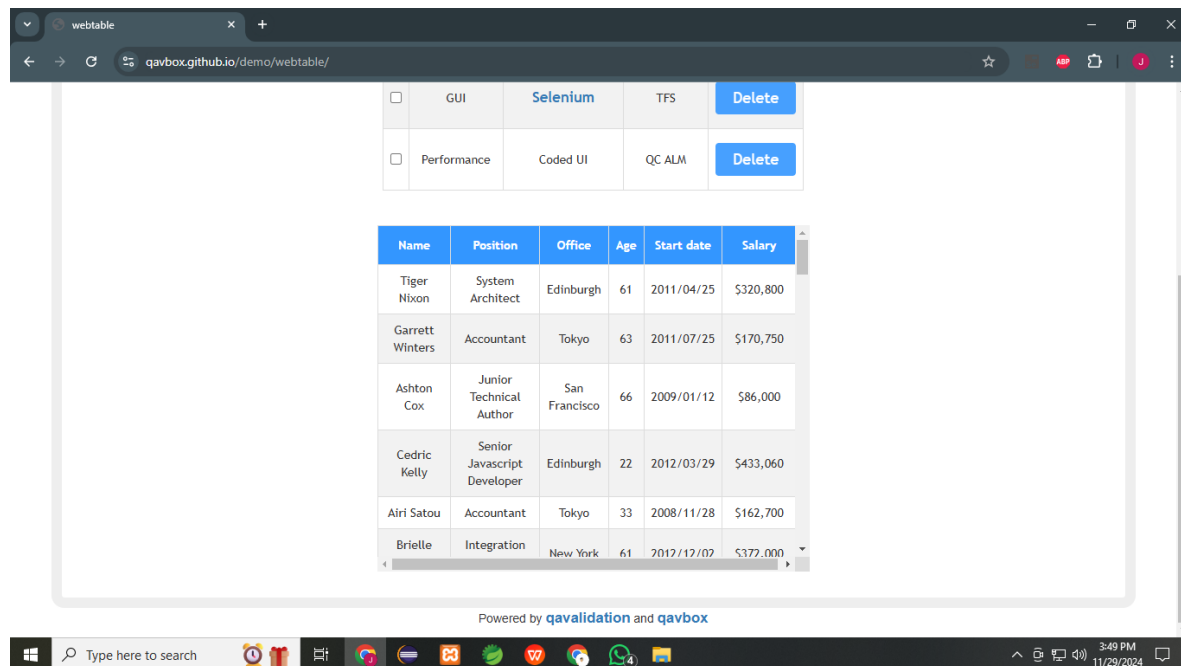
2. Keyboard event



- W.A.J. Script How to handled Alert in selenium
"https://demo.automationtesting.in/Alerts.html "



- W.A.J. Script To find the total hyperlink from this web page <https://qavbox.github.io/demo/webtable/>



- 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
<https://demo.automationtesting.in/SignIn.html>
Direct check with login which emaild through login successful or not.

	A	B
1	rahul.sanghavi.mca@gmail.com	rahul12345
2	rahul@gmail.com	rahul
3		
4		

- W.a.framework program for keyword driven framework
-given below keyword which you get from the Excel and check into youwebsite

<https://demo.automationtesting.in/SignIn.html>

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

<https://demo.automationtesting.in/SignIn.html>

	A	B
1	open browser	null
2	enter url	http://automationpractice.com/index.php
3	click signin	null
4	enter email	rahul.sanghavi.mca@gmail.com
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	https://restapilive.onrender.com/userreg	user registration	[fname,lname,email,phno,pass,gender]	success message on proper data
POST	https://restapilive.onrender.com/userlogin	user login	[email,pass]	get auth token on successfully login , error message on invalid credentials

Admin module

API type	API	Details	Params	Result
POST	https://restapilive.onrender.com/adminlogin	admin login	[email : "admin@gmail.com", password : "admin"] : default login	get auth token on successfully login
Product category				
POST	https://restapilive.onrender.com/addcategory	add product category	[catname] header : [admin-auth-token : got from admin login]	prodcue category stored in db and return added category info
GET	https://restapilive.onrender.com/category	view product category	[admin-auth-token : got from admin login]	all prodct category
GET	https://restapilive.onrender.com/deletecat	delete product category	header : [admin-auth-token : got from admin login], parms : [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)