EduBridge

A Project Report on

GlobalSQA Website Using Automation Tool Selenium Web driver with Java

By

Ms. Shubhangi Ingle

Enrollment No: EBCHWD0421360448

Batch-SOC (2021-5532)

Under the Guidance of,

Ms. Amruta Deore

(Technical Trainer)

EduBridge India Pvt. Ltd.

Introduction

This Project aims to do overall testing like functional testing, GUI testing on GlobalSQA website to check quality of application using selenium web driver. It helps to improve quality of website and saves time for manually doing this testing.

In this project our main focus is to test the Tester's Hub Module. This website is for Cheat sheets, Mind maps, Free EBooks and having demo pages for testing purpose. It has a wealth of information to share with that audience and finding the best design for your requirements.

Software Requirements

Operating System: Windows 10
Browser: Latest version of Google Chrome
Platform: Eclipse IDE
Automation Tool and Language: Selenium WebDriver, Java
Files: JDK, Selenium Jar files, Common IO file

1. CHEATSHEETS MODULE

TC01: Launch the browser and GlobalSQA website

Selenium WebDriver Pseudo Code:

```
WebDriver driver = new ChromeDriver();

//open webpage
driver.get("https://www.globalsqa.com/");
```


TC02: To verify to maximize browser window
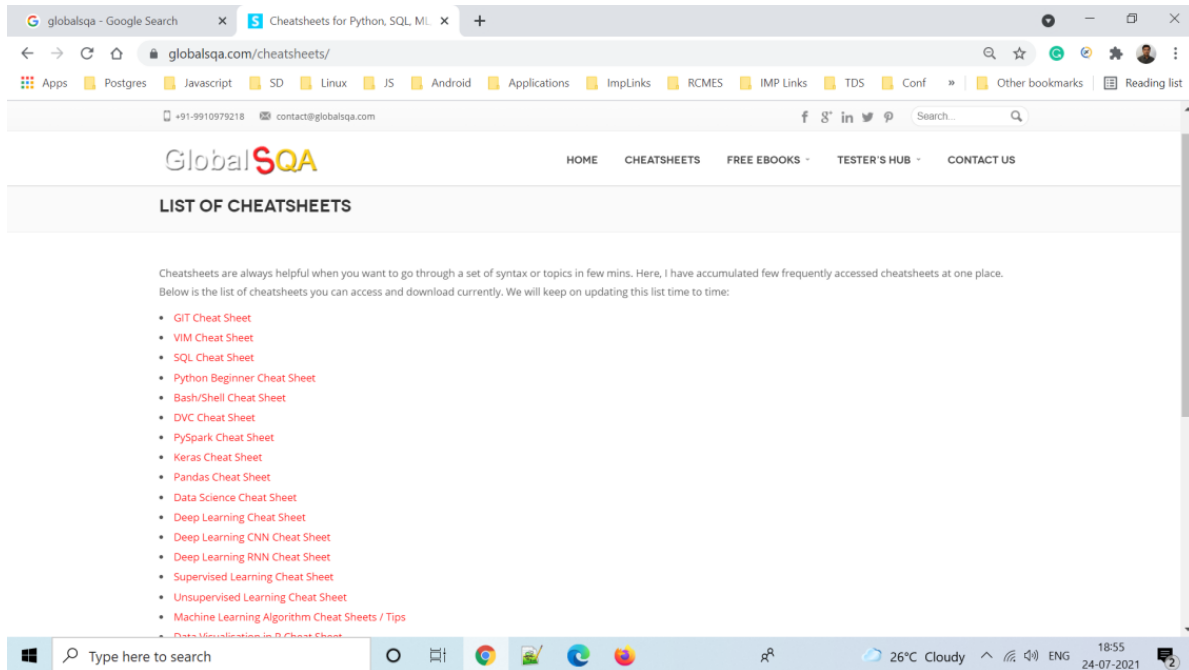
Selenium WebDriver Pseudo Code:

```
driver.manage().window().maximize();
```

TC03: To verify cheetsheet menubar is clickable

Selenium WebDriver Pseudo Code:

//open cheetsheet tab
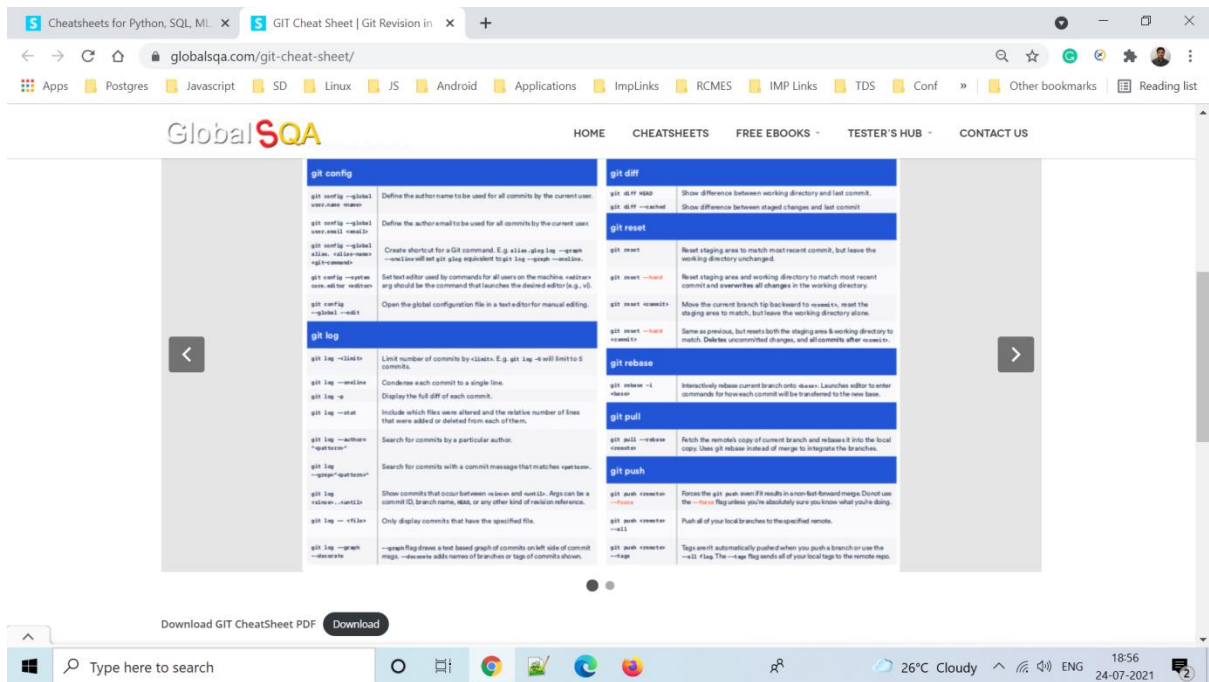driver.findElement(By.*xpath*("//header/div[2]/div[1]/div[1]/div[3]/div[1]/ul[1]/li[2]/a[1]")).click();

TC04: To verify GIT CheatSheet link is clickable and it is open in new tab

Selenium WebDriver Pseudo Code:

//open GIT Cheat Sheet window
driver.findElement(By.*xpath*("//a[contains(text(),'GIT Cheat Sheet')]")).click();

TC05: To verify switching to child window of GIT Cheat Sheet

Selenium WebDriver Pseudo Code:

```
// To handle all new opened window
Set<String> s1 =driver.getWindowHandles();

        Iterator<String> itr = s1.iterator();

        while(itr.hasNext())
        {
                String ChildWindow = itr.next();
                if(!Mainwindow.equalsIgnoreCase(ChildWindow))
                {
                        driver.switchTo().window(ChildWindow);
                }
        }
```

TC06: To verify slider arrow button GIT Cheat Sheet tab

Selenium WebDriver Pseudo Code:

```
//click on slide arrow button
```

```java
driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]
/div[1]/div[1]/div[1]/a[2]")).click();
```

//click on slide arrow button

```java
driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]
/div[1]/div[1]/div[1]/a[1]")).click();
```

TC07: To verify the download button of GIT Cheat Sheet tab

Selenium WebDriver Pseudo Code:

```java
//click on download button
driver.findElement(By.xpath("//a[contains(text(),'Download')]")).click();
```

TC08: To verify DVC Cheat Sheet image is clickable

Selenium WebDriver Pseudo Code:

```java
driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]
/div[1]/nav[1]/div[1]/ul[1]/li[2]/a[1]/img[1]")).click();
```

TC09: To verify the download button of DVC Cheat Sheet

Selenium WebDriver Pseudo Code:

```java
//click on download button
driver.findElement(By.xpath("//a[contains(text(),'Download')]")).click();
```

TC10: To verify the Machine Learning Algorithms Mind Map image is clickable

Selenium WebDriver Pseudo Code:

```java
//click on first image Machine Learning Algorithms Mind Map
driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]
/div[1]/nav[1]/div[1]/ul[1]/li[2]/a[1]/img[1]")).click();
```

TC11: To verify to navigate back to previous window of DVC Cheat sheet

.

Selenium WebDriver Pseudo Code:

```
//navigate to previous window DVC Cheat Sheet
driver.navigate().back();
```

TC12: To verify the Pandas Cheat Sheet image is clickable

Selenium WebDriver Pseudo Code:

```
// click on image Pandas Cheat Sheet
driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]/div[1]/nav[1]/div[1]/ul[2]/li[2]/a[1]/img[1]")).click();
```

TC13: To verify the PySpark Cheat Sheet is clickable

Selenium WebDriver Pseudo Code:

```
//click on image PySpark Cheat Sheet
driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]/div[1]/nav[1]/div[1]/ul[1]/li[2]/a[1]/img[1]")).click();
Thread.sleep(3000);
```

TC14: To verify the download button of PySpark Cheat Sheet

Selenium WebDriver Pseudo Code:

```
//click on download button
driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]/div[1]/div[1]/a[2]")).click();

driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]/div[1]/div[2]/a[2]")).click();
Thread.sleep(2000);
```

TC15: To verify to navigate back to Pandas Cheat Sheet

Selenium WebDriver Pseudo Code:

```
driver.navigate().back();
```

TC16: To verify to close the child window tab of Pandas Cheat Sheet

Selenium WebDriver Pseudo Code:

```
driver.close();
System.out.println("window closed");
```

TC17: To verify switching to parent window i.e. main window tab from Pandas Cheat Sheet

Selenium WebDriver Pseudo Code:

```
// Switching to Parent window i.e Main Window.
driver.switchTo().window(Mainwindow);
```

TC18: To verify VIM Cheat Sheet link is clickable and it is open in new tab

Selenium WebDriver Pseudo Code:

```
// click on VIM Cheat Sheet
driver.manage().timeouts().implicitlyWait(200, TimeUnit.MILLISECONDS);
driver.findElement(By.xpath("//a[contains(text(),'VIM Cheat Sheet')]")).click();
```

TC19: To verify switching to child window VIM Cheat Sheet

Selenium WebDriver Pseudo Code:

```
String Mainwindow = driver.getWindowHandle();

// To handle all new opened window
Set<String> s1 =driver.getWindowHandles();
```

```
Iterator<String> itr = s1.iterator();
while(itr.hasNext())
        {
                String ChildWindow = itr.next();
                        if(!Mainwindow.equalsIgnoreCase(ChildWindow))
                        {
                                driver.switchTo().window(ChildWindow);
                        }
        }
```

TC20: To verify download button of VIM Cheat Sheet window

Selenium WebDriver Pseudo Code:

```
driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]
/div[1]")).click();
```

TC21: To verify to close the child window tab of VIM Cheat Sheet

Selenium WebDriver Pseudo Code:

```
driver.close();
System.out.println("window closed");
```

TC22: To verify switching to parent window i.e. main window tab from VIM cheat Sheet

Selenium WebDriver Pseudo Code:

```
// Switching to Parent window i.e. Main Window.
driver.switchTo().window(Mainwindow);
```

TC23: To verify SQL Cheat Sheet link is clickable and it is open in new tab

Selenium WebDriver Pseudo Code:

```
// click on SQL Cheat Sheet
//Thread.sleep(2000);
```

```
driver.manage().timeouts().implicitlyWait(200, TimeUnit.MILLISECONDS);
driver.findElement(By.xpath("//a[contains(text(),'SQL Cheat Sheet')]")).click();
```

TC24: To verify switching to child window of SQL Cheat sheet

Selenium WebDriver Pseudo Code:

```
String Mainwindow = driver.getWindowHandle();

                // To handle all new opened window
                Set<String> s1 =driver.getWindowHandles();

                Iterator<String> itr = s1.iterator();

                while(itr.hasNext())
                {
                        String ChildWindow = itr.next();
                        if(!Mainwindow.equalsIgnoreCase(ChildWindow))
                        {
                                driver.switchTo().window(ChildWindow);
                        }
                }
```

TC25: To verify slider arrow button of SQL Cheat Sheet tab

Selenium WebDriver Pseudo Code:

```
driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]
/div[1]")).click();
```

TC26: To verify to close the child window tab of SQL Cheat Sheet

Selenium WebDriver Pseudo Code:

```
driver.close();
System.out.println("window closed");
```

TC27: To verify switching to parent window i.e. main window tab from SQL Cheat Sheet

Selenium WebDriver Pseudo Code:

```
driver.manage().window().maximize();
// Switching to Parent window i.e. Main Window.
driver.switchTo().window(Mainwindow);
```

TC28: To verify Python Beginner Cheat Sheet link is clickable and it is open in new tab

Selenium WebDriver Pseudo Code:

```
// click on Python Cheat Sheet
//Thread.sleep(2000);
driver.manage().timeouts().implicitlyWait(200, TimeUnit.MILLISECONDS);
driver.findElement(By.xpath("//a[contains(text(),'Python Beginner Cheat Sheet')]")).click();
```

TC29: To verify switching to child window of Python Cheat sheet

Selenium WebDriver Pseudo Code:

```
String Mainwindow = driver.getWindowHandle();

        // To handle all new opened window
        Set<String> s1 =driver.getWindowHandles();

        Iterator<String> itr = s1.iterator();

        while(itr.hasNext())
        {
                String ChildWindow = itr.next();
                if(!Mainwindow.equalsIgnoreCase(ChildWindow))
                {
                        driver.switchTo().window(ChildWindow);
                }
        }
```

TC30: To verify slider arrow button of Python Cheat Sheet tab

Selenium WebDriver Pseudo Code:

```
driver.manage().timeouts().implicitlyWait(200, TimeUnit.MILLISECONDS);
driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]
/div[2]/div[1]/div[1]/a[2]")).click();

System.out.println("Arrow Clicked");
```

TC31: To verify to close the child window tab of Python Cheat Sheet

Selenium WebDriver Pseudo Code:

```
driver.close();
System.out.println("window closed");
```

TC32: To verify switching to parent window i.e. main window tab from Python Cheat Sheet

Selenium WebDriver Pseudo Code:

```
// Switching to Parent window i.e. Main Window.
driver.switchTo().window(Mainwindow);
```

TC33: To verify Bash/Shell Cheat Sheet link is clickable and it is open in new tab

Selenium WebDriver Pseudo Code:

```
// click on Bash Cheat Sheet
//Thread.sleep(2000);
driver.manage().timeouts().implicitlyWait(200, TimeUnit.MILLISECONDS);
driver.findElement(By.xpath("//a[contains(text(),'Bash/Shell Cheat Sheet')]")).click();
```

TC34: To verify switching to child window of Bash/Shell Cheat sheet

Selenium WebDriver Pseudo Code:

```
String Mainwindow = driver.getWindowHandle();

                    // To handle all new opened window
                    Set<String> s1 =driver.getWindowHandles();

                    Iterator<String> itr = s1.iterator();

                    while(itr.hasNext())
                    {
                            String ChildWindow = itr.next();
                            if(!Mainwindow.equalsIgnoreCase(ChildWindow))
                            {
                                    driver.switchTo().window(ChildWindow);
                            }
                    }
```

TC35: To verify slider arrow button of Bash/shell Cheat Sheet tab

Selenium WebDriver Pseudo Code:

```
driver.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/div[2]/div[1]/div[1]/div[1]/div[1]/div[1]/a[2]")).click();
driver.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/div[2]/div[1]/div[1]/div[1]/div[1]/div[1]/a[2]")).click();
```

TC36: To verify to close the child window tab of Bash/Shell Cheat Sheet

Selenium WebDriver Pseudo Code:

```
driver.close();
System.out.println("window closed");
```

TC37: To verify switching to parent window i.e. main window tab from Bash/Shell Cheat Sheet

Selenium WebDriver Pseudo Code:

```
// Switching to Parent window i.e. Main Window.
```

```
driver.switchTo().window(Mainwindow);
```

TC38: To verify Keras Cheat Sheet link is clickable and it is open in new tab

Selenium WebDriver Pseudo Code:

```
// click on Keras Cheat Sheet
//Thread.sleep(2000);
driver.manage().timeouts().implicitlyWait(200, TimeUnit.MILLISECONDS);
driver.findElement(By.xpath("//a[contains(text(),'Keras Cheat Sheet')]")).click();
```

TC39: To verify switching to child window of Keras Cheat sheet

Selenium WebDriver Pseudo Code:

```
String Mainwindow = driver.getWindowHandle();

        // To handle all new opened window
        Set<String> s1 =driver.getWindowHandles();

        Iterator<String> itr = s1.iterator();

        while(itr.hasNext())
        {
                String ChildWindow = itr.next();
                if(!Mainwindow.equalsIgnoreCase(ChildWindow))
                {
                        driver.switchTo().window(ChildWindow);
                }
        }
```

TC40: To verify download button of Keras Cheat Sheet tab

Selenium WebDriver Pseudo Code:

```
driver.findElement(By.xpath("//a[contains(text(),'Download')]")).click();
```

TC41: To verify to close the child window tab of Keras Cheat Sheet

Selenium WebDriver Pseudo Code:

```
driver.close();
System.out.println("window closed");
```

TC42: To verify switching to parent window i.e. main window tab from Keras Cheat Sheet

Selenium WebDriver Pseudo Code:

```
// Switching to Parent window i.e. Main Window.
driver.switchTo().window(Mainwindow);
```

TC43: To verify Data Science Cheat Sheet link is clickable and it is open in new tab.

Selenium WebDriver Pseudo Code:

```
// click on Data Science Cheat Sheet
//Thread.sleep(2000);
driver.manage().timeouts().implicitlyWait(200, TimeUnit.MILLISECONDS);
driver.findElement(By.xpath("//a[contains(text(),'Data Science Cheat Sheet')]")).click();
```

TC44: To verify switching to child window of Data Science Cheat sheet

Selenium WebDriver Pseudo Code:

```
String Mainwindow = driver.getWindowHandle();

        // To handle all new opened window
        Set<String> s1 =driver.getWindowHandles();

        Iterator<String> itr = s1.iterator();

        while(itr.hasNext())
        {
                String ChildWindow = itr.next();
```

```
                    if(!Mainwindow.equalsIgnoreCase(ChildWindow))
                    {
                            driver.switchTo().window(ChildWindow);
                    }
            }
```

TC45: To verify slider arrow button of Data Science Cheat Sheet tab

Selenium WebDriver Pseudo Code:

driver.findElement(By.*xpath*("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]/div[1]/div[1]/div[1]/a[2]")).click();

driver.findElement(By.*xpath*("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]/div[1]/div[1]/div[1]/a[1]")).click();

System.*out*.println("arrow Clicked");

TC46: To verify download button of Data Science Cheat Sheet tab

Selenium WebDriver Pseudo Code:

driver.findElement(By.*xpath*("//a[contains(text(),'Download')]")).click();

TC47: To verify to close the child window tab of Data Science Cheat Sheet

Selenium WebDriver Pseudo Code:

driver.close();
System.*out*.println("window closed");

TC48: To verify switching to parent window i.e. main window tab from Data Science Cheat Sheet

Selenium WebDriver Pseudo Code:

// Switching to Parent window i.e. Main Window.
driver.switchTo().window(Mainwindow);

TC49: To verify Deep Learning CNN Cheat Sheet link is clickable and it is open in new tab

Selenium WebDriver Pseudo Code:

```java
// click on CNN Cheat Sheet
//Thread.sleep(2000);
driver.manage().timeouts().implicitlyWait(200, TimeUnit.MILLISECONDS);
driver.findElement(By.xpath("//a[contains(text(),'Deep Learning CNN Cheat Sheet')]")).click();
```

TC50: To verify switching to child window of Deep Learning CNN Cheat sheet

Selenium WebDriver Pseudo Code:

```java
String Mainwindow = driver.getWindowHandle();

        // To handle all new opened window
        Set<String> s1 =driver.getWindowHandles();

        Iterator<String> itr = s1.iterator();

        while(itr.hasNext())
        {
                String ChildWindow = itr.next();
                if(!Mainwindow.equalsIgnoreCase(ChildWindow))
                {
                        driver.switchTo().window(ChildWindow);
                }
        }
```

TC51: To verify slider arrow button of Deep Learning CNN Cheat Sheet tab

Selenium WebDriver Pseudo Code:

```java
driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]/div[1]/div[1]/div[1]/a[2]")).click();
```

TC52: To verify to close the child window tab of Deep Learning CNN Cheat Sheet

Selenium WebDriver Pseudo Code:

```
driver.close();
System.out.println("window closed");
```

TC53: To verify switching to parent window i.e. main window tab from Deep Learning CNN Cheat Sheet

Selenium WebDriver Pseudo Code:

```
// Switching to Parent window i.e. Main Window.
driver.switchTo().window(Mainwindow);
```

TC54: To verify Deep Learning RNN Cheat Sheet link is clickable and it is open in new tab

Selenium WebDriver Pseudo Code:

```
// click on RNN Cheat Sheet
//Thread.sleep(2000);
driver.manage().timeouts().implicitlyWait(200, TimeUnit.MILLISECONDS);
driver.findElement(By.xpath("//a[contains(text(),'Deep Learning RNN Cheat Sheet')]")).click();
```

TC55: To verify switching to child window of Deep Learning RNN Cheat sheet

Selenium WebDriver Pseudo Code:

```
String Mainwindow = driver.getWindowHandle();

            // To handle all new opened window
            Set<String> s1 =driver.getWindowHandles();

            Iterator<String> itr = s1.iterator();
```

```
while(itr.hasNext())
{
        String ChildWindow = itr.next();
        if(!Mainwindow.equalsIgnoreCase(ChildWindow))
        {
                driver.switchTo().window(ChildWindow);
        }
}
```

TC56: To verify slider arrow button of Deep Learning RNN Cheat Sheet tab

Selenium WebDriver Pseudo Code:

```
driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]/div[1]/div[1]/div[1]/a[2]")).click();

driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]/div[1]/div[1]/div[1]/a[1]")).click();
```

TC57: To verify to close the child window tab of Deep Learning RNN Cheat Sheet

Selenium WebDriver Pseudo Code:

```
driver.close();
System.out.println("window closed");
```

TC58: To verify switching to parent window i.e. main window tab from Deep Learning RNN Cheat Sheet

Selenium WebDriver Pseudo Code:

```
// Switching to Parent window i.e. Main Window.
driver.switchTo().window(Mainwindow);
```

2. DEMO TESTING MODULE

TC59: To verify mouse hover to Tester's Hub menubar

Selenium WebDriver Pseudo Code:

```
//TesterHub web Element
WebElement TesterHub =
driver.findElement(By.xpath("//header/div[2]/div[1]/div[1]/div[3]/div[1]/ul[1]/li[4]/a[1]"));

Actions action = new Actions(driver);
//mouse hover to element
action.moveToElement(TesterHub).build().perform();
```


TC60: To verify mouse hover to demo testing site

Selenium WebDriver Pseudo Code:

```
//mouse hover to demo testing site
WebElement DemoTsting =
driver.findElement(By.xpath("//body[1]/div[1]/header[1]/div[2]/div[1]/div[1]/div[3]/div[1]/ul[1]/li[4]/div[1]/ul[1]/li[1]/a[1]/span[1]"));
```

action.moveToElement(DemoTsting).build().perform();

TC61: To verify to click on auto complete

Selenium WebDriver Pseudo Code:

//click on auto complete
driver.findElement(By.xpath("//span[contains(text(),'Auto Complete')]")).click();
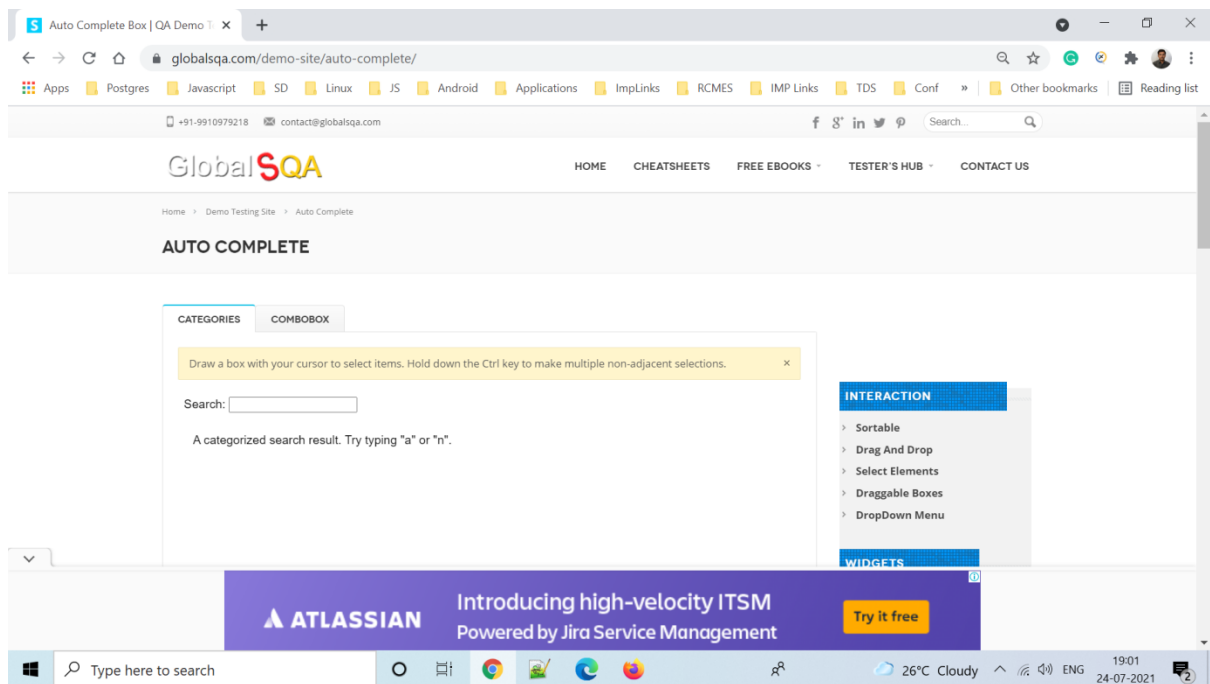
TC62: To verify to click on categories

Selenium WebDriver Pseudo Code:

//click on categories
driver.findElement(By.id("Categories")).click();
System.out.println("Categories clicked");

TC63: To verify Switching to iFrame using xpath of the frame

Selenium WebDriver Pseudo Code:

//Switch to Frame using xpath of the frame

```java
WebElement iframe =
driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]
/div[2]/div[1]/div[1]/div[1]/p[1]/iframe[1]"));

driver.switchTo().frame(iframe);

System.out.println("********We are switch to the iframe******");
```

TC64: To verify write text in search input

Selenium WebDriver Pseudo Code:

```java
//write text in search
driver.findElement(By.id("search")).sendKeys("a");
```

TC65: To verify list of autocomplete menu and check its size

Selenium WebDriver Pseudo Code:

```java
WebDriverWait wait = new WebDriverWait(driver,30);

wait.until(ExpectedConditions.visibilityOfAllElementsLocatedBy(By.id("ui-id-1")));

//list of autocomplete menu
List<WebElement> list = driver.findElements(By.id("ui-id-1"));

System.out.println("Auto Suggest List: " + list.size());
```

TC66: To verify selecting one element from list

Selenium WebDriver Pseudo Code:

```java
for (WebElement a : list)
        {
            System.out.println("Values are = " + a.getText());
            if (a.getText().equalsIgnoreCase("annk K12"));
            a.click();
            //Thread.sleep(3000);
            break;
        }
```

TC67: To verify switching to default page from iframe

Selenium WebDriver Pseudo Code:

```
// swith to default page
driver.switchTo().defaultContent();
```

TC68: To verify clicking on comboBox

Selenium WebDriver Pseudo Code:

```
//click on comboBox
driver.findElement(By.id("ComboBox")).click();
System.out.println("ComboBox clicked");
```
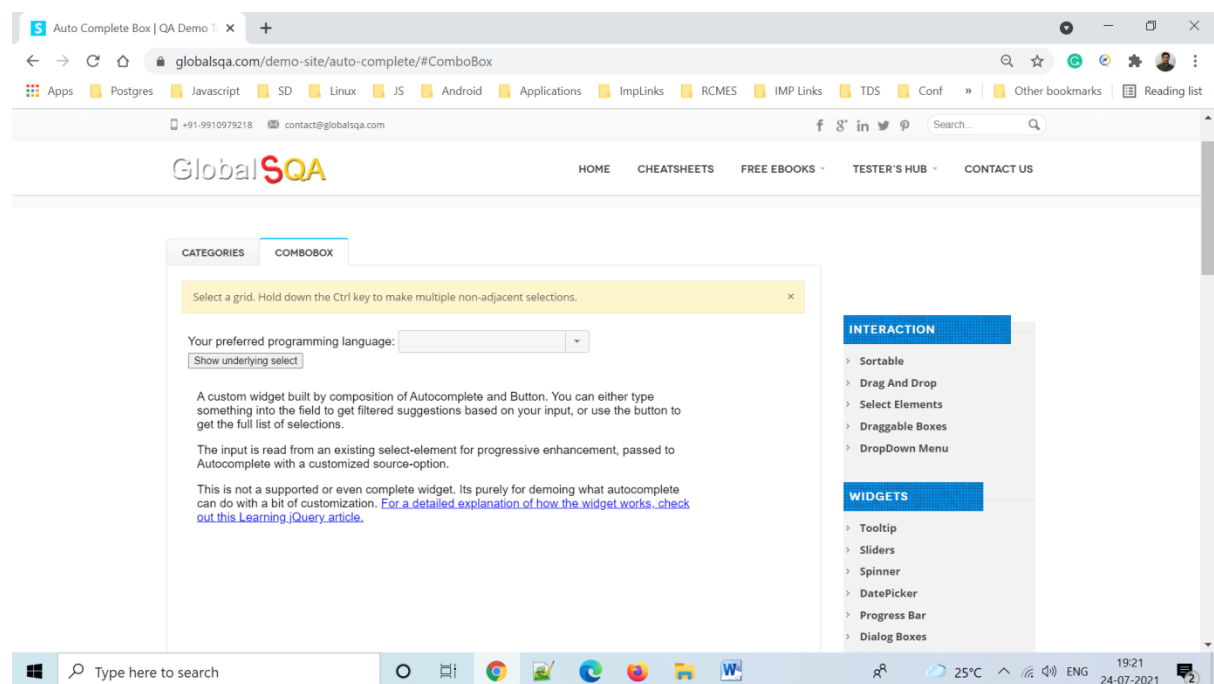

TC69: To verify Switching to iFrame using xpath of the frame

Selenium WebDriver Pseudo Code:

```
WebElement iframe1 =
driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]
/div[2]/div[1]/div[1]/div[2]/p[1]/iframe[1]"));
```

```
driver.switchTo().frame(iframe1);

System.out.println("********We are switch to the iframe*******");
```

TC70: To verify Show Underlying select button is clickable and shows the dropdown list

Selenium WebDriver Pseudo Code:

```
driver.manage().timeouts().implicitlyWait(200, TimeUnit.MILLISECONDS);

//click on button
driver.findElement(By.xpath("//button[@id='toggle']")).click();
```

TC71: To verify to select the element from dropdown list

Selenium WebDriver Pseudo Code:

```
Select select =new Select(driver.findElement(By.id("combobox")));
select.selectByVisibleText("Java");
System.out.println("Java is selected");
```

TC72: To verify to click on Accordion and tabs

Selenium WebDriver Pseudo Code:

```
//click on Accordian and tabs

driver.findElement(By.xpath("//span[contains(text(),'Accordion And Tabs')]")).click();
```
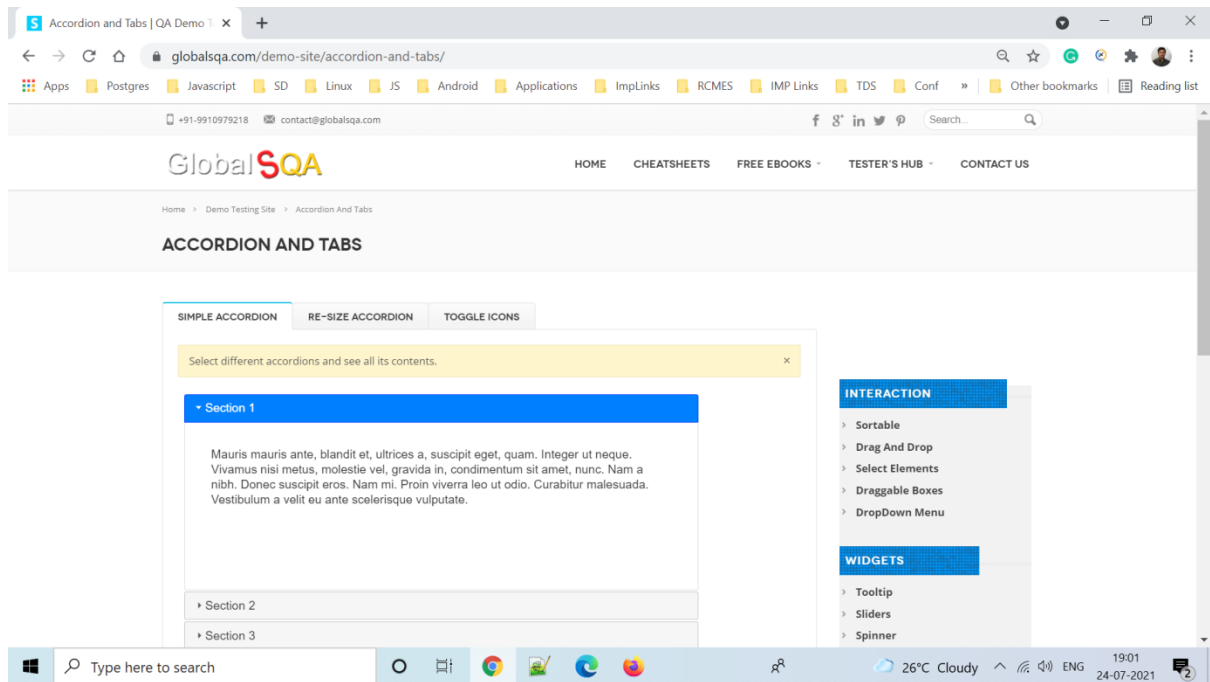
TC73: To verify Switching to iFrame using <u>xpath</u> of the frame

Selenium WebDriver Pseudo Code:

```
//Switch to Frame using xpath of the frame
WebElement iframe =
driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]
/div[2]/div[1]/div[1]/div[1]/p[1]/iframe[1]"));

driver.switchTo().frame(iframe);

System.out.println("********We are switch to the iframe*******");
```

TC74: To verify to click on Section 2 and Check section 2 is opened and section 1 is collapsed

Selenium WebDriver Pseudo Code:

```
//click on Section 2
driver.findElement(By.cssSelector("#ui-id-3")).click();
System.out.println("Section 2 is Clicked");
```

TC75: To verify to click on select element

Selenium WebDriver Pseudo Code:

```
//click on select element
driver.findElement(By.xpath("//span[contains(text(),'Select Elements')]")).click();
```
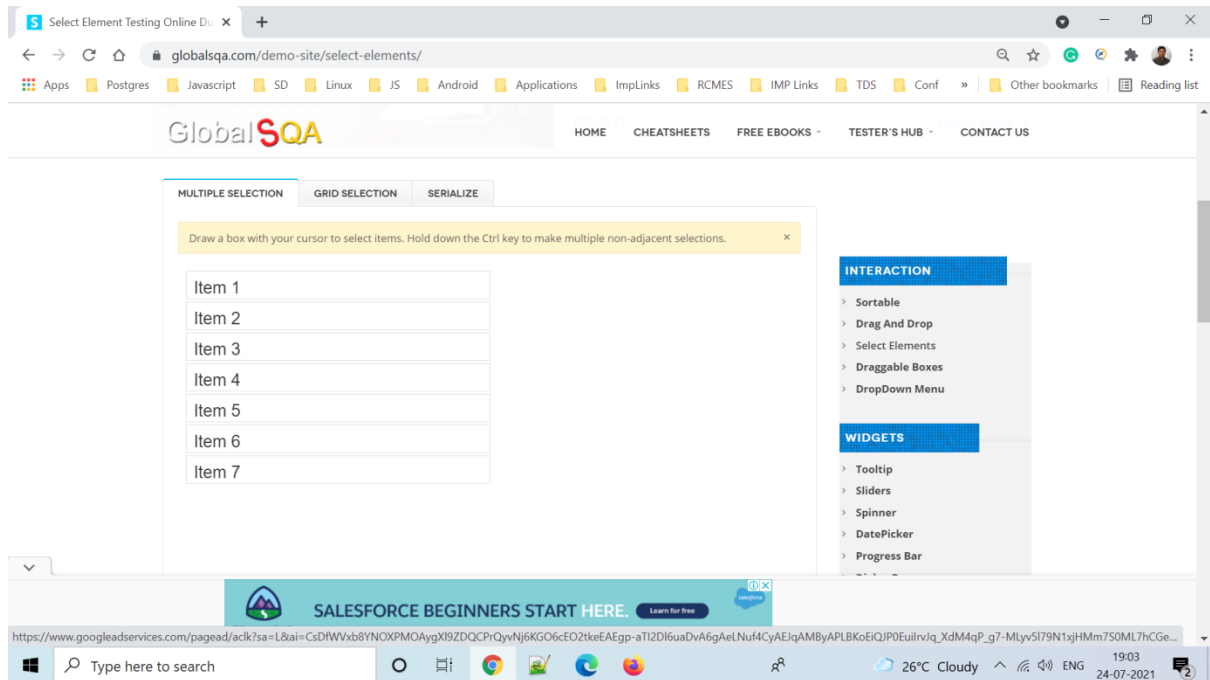

TC76: To verify Switching to iFrame using xpath of the frame

Selenium WebDriver Pseudo Code:

```
WebElement iframe2=
driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]
/div[2]/div[1]/div[1]/div[1]/p[1]/iframe[1]"));
driver.switchTo().frame(iframe2);
System.out.println("switch to iframe");
```

TC77: To check the size of select element

Selenium WebDriver Pseudo Code:

```
Actions builder = new Actions(driver);
WebElement select = driver.findElement(By.id("selectable"));
List<WebElement> options = select.findElements(By.tagName("li"));
System.out.println(options.size());
```

TC78: To click on multiple keys using control key

Selenium WebDriver Pseudo Code:

builder.keyDown(Keys.*CONTROL*).click(options.get(2)).click(options.get(4)).click(options.get(6)).build().perform();

TC79: To click on Frames and windows

Selenium WebDriver Pseudo Code:

//click on Frames and windows
driver.findElement(By.*xpath*("//body[1]/div[1]/header[1]/div[2]/div[1]/div[1]/div[3]/div[1]/ul[1]/li[4]/div[1]/ul[1]/li[1]/div[1]/ul[1]/li[13]/a[1]/span[1]")).click();
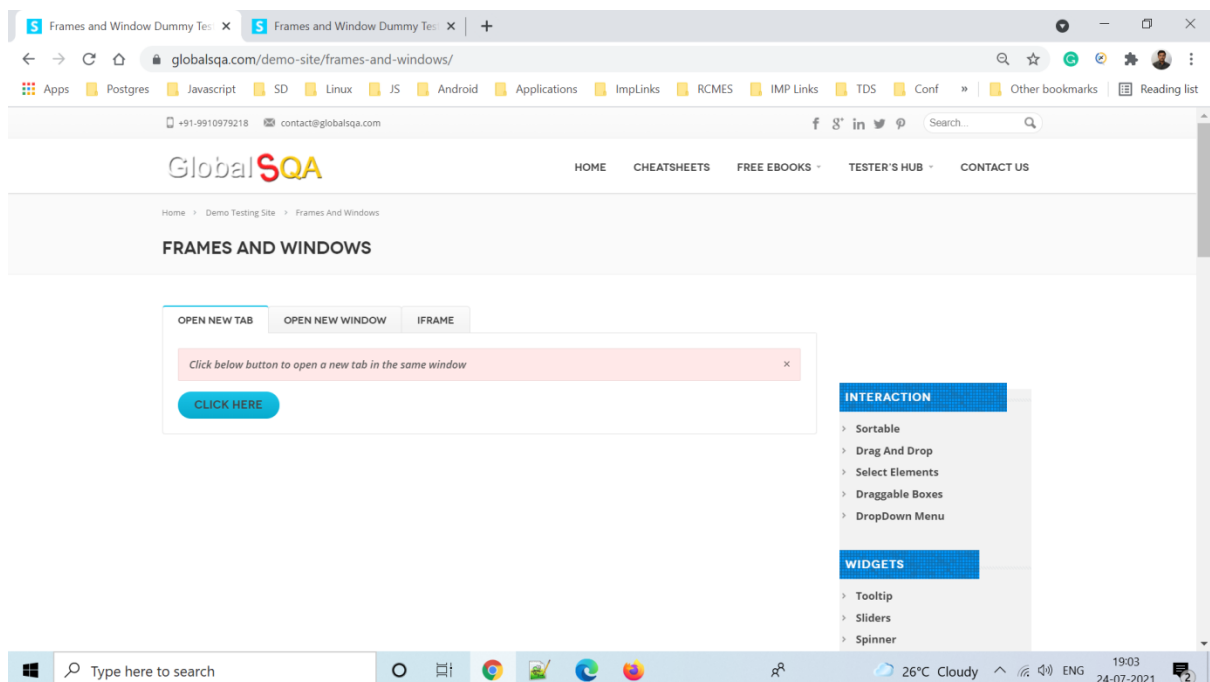
TC80: To click on button "click here"

Selenium WebDriver Pseudo Code:

//click on button click here
driver.findElement(By.*xpath*("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]/div[2]/div[1]/div[1]/div[1]/a[1]")).click();

TC81: To verify switching to child window of frames and windows

Selenium WebDriver Pseudo Code:

```
String Mainwindow = driver.getWindowHandle();

                  // To handle all new opened window
                  Set<String> s1 =driver.getWindowHandles();

                  Iterator<String> itr = s1.iterator();

                  while(itr.hasNext())
                  {
                          String ChildWindow = itr.next();
                          if(!Mainwindow.equalsIgnoreCase(ChildWindow))
                          {
                                  driver.switchTo().window(ChildWindow);
                          }
                  }
```

TC82: To verify to close the child window tab of Frames and windows

Selenium WebDriver Pseudo Code:

```
driver.close();
System.out.println("window closed");
```

TC83: To verify switching to parent window i.e. main window tab from Frames and windows

Selenium WebDriver Pseudo Code:

```
// Switching to Parent window i.e. Main Window.
driver.switchTo().window(Mainwindow);
System.out.println("Back to main window");
```

1. ANGULARJS PROTRACTOR PRACTICE

TC84: To verify mouse hover to Tester's Hub menu bar

Selenium WebDriver Pseudo Code:

```
//TesterHub web Element
WebElement TesterHub =
driver.findElement(By.xpath("//header/div[2]/div[1]/div[1]/div[3]/div[1]/ul[1]/li[4]/a[1]"));

Actions action = new Actions(driver);
//mouse hover to element
action.moveToElement(TesterHub).build().perform();
```

TC85: To verify mouse hover to angularJS Protractor Practice

Selenium WebDriver Pseudo Code:

```
//mouse over to angularJS
WebElement angularjS=
driver.findElement(By.xpath("//body[1]/div[1]/header[1]/div[2]/div[1]/div[1]/div[3]/div[1]/ul[1]/li[4]/div[1]/ul[1]/li[2]/a[1]/span[1]"));

action.moveToElement(angularjS).build().perform();
```

TC86: To click on web table

Selenium WebDriver Pseudo Code:

```
//click on web table
driver.findElement(By.xpath("//header/div[2]/div[1]/div[1]/div[3]/div[1]/ul[1]/li[4]/div[1]/ul[1]/li[2]/div[1]/ul[1]/li[4]/a[1]")).click();
```

TC87: To verify write text in search input

Selenium WebDriver Pseudo Code:
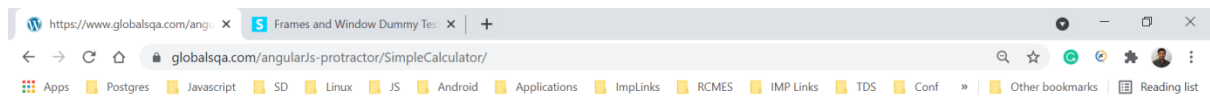
driver.findElement(By.*xpath*("//thead/tr[2]/th[1]/input[1]")).sendKeys("pol");

driver.findElement(By.*xpath*("//thead/tr[2]/th[2]/input[1]")).sendKeys("80");

TC88: To click on Simple Calculator

Selenium WebDriver Pseudo Code:

driver.findElement(By.*xpath*("//span[contains(text(),'Simple Calculator')]")).click();

TC89: To verify write text in "a=" input

Selenium WebDriver Pseudo Code:

driver.findElement(By.*xpath*("//tbody/tr[1]/td[2]/input[1]")).sendKeys("5");

TC90: To verify write text in "b=" input

Selenium WebDriver Pseudo Code:

```
driver.findElement(By.xpath("//tbody/tr[2]/td[2]/input[1]")).sendKeys("4");
```

TC91: To verify A's plus and minus button is clicked

Selenium WebDriver Pseudo Code:

```
driver.findElement(By.xpath("//tbody/tr[1]/td[3]/button[1]")).click();
System.out.println("A's Plus button clicked");

driver.findElement(By.xpath("//tbody/tr[1]/td[3]/button[2]")).click();
System.out.println("A's minus button clicked");
```

TC92: To verify B's plus and minus button is clicked

Selenium WebDriver Pseudo Code:

```
driver.findElement(By.xpath("//tbody/tr[2]/td[3]/button[1]")).click();

System.out.println("B's Plus button clicked");

driver.findElement(By.xpath("//tbody/tr[2]/td[3]/button[2]")).click();

System.out.println("B's minus button clicked");
```

TC93: To verify to select the element from dropdown list

Selenium WebDriver Pseudo Code:

```
Select drplist= new
Select(driver.findElement(By.xpath("//tbody/tr[3]/td[2]/select[1]")));
drplist.selectByVisibleText("*");
```

1. Sample Page 2

TC94: To verify mouse hover to Tester's Hub menubar

Selenium WebDriver Pseudo Code:

```
//TesterHub web Element
WebElement TesterHub =
driver.findElement(By.xpath("//header/div[2]/div[1]/div[1]/div[3]/div[1]/ul[1]/li[4]
/a[1]"));

Actions action = new Actions(driver);
//mouse hover to element
action.moveToElement(TesterHub).build().perform();
```
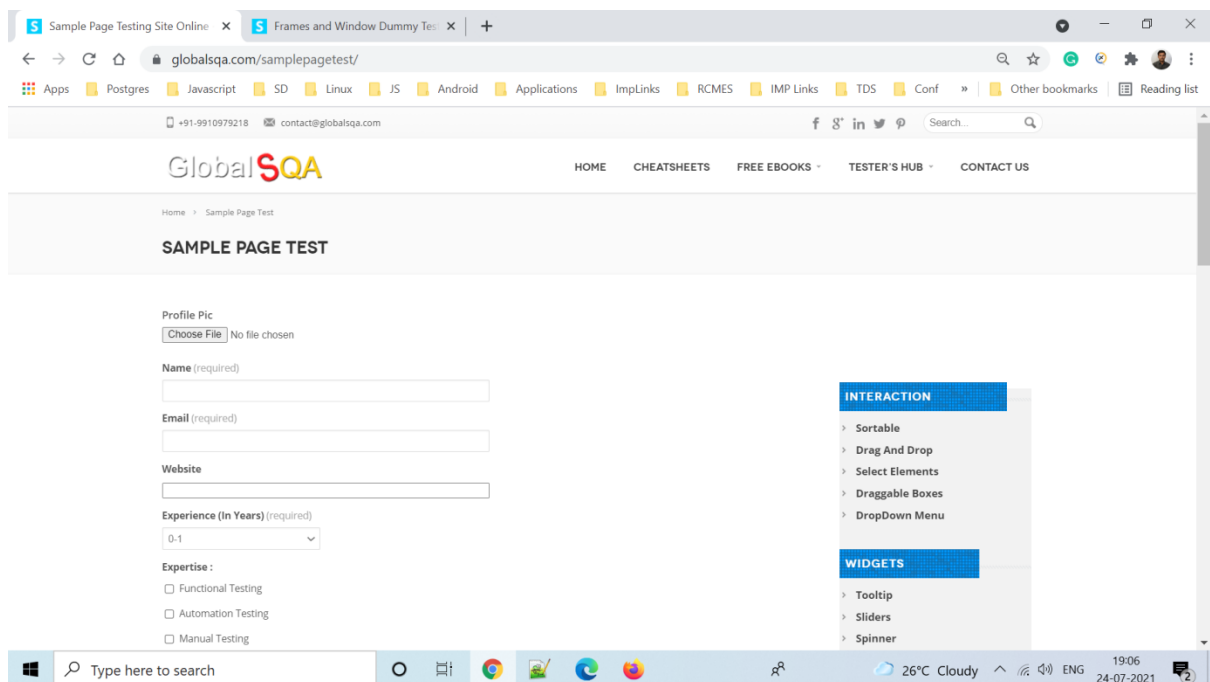
TC95: To verify to click on sample page

Selenium WebDriver Pseudo Code:

```
//click on sample page
driver.findElement(By.xpath("//span[contains(text(),'Sample Page Test')]")).click();
```


TC96: To verify upload photo function of sample page form

Selenium WebDriver Pseudo Code:

```
//Upload photo
```

```
driver.findElement(By.name("file-
553")).sendKeys("C:\\Users\\Shubhangi\\Downloads\\download (2).jpg");
System.out.println("Photo uploaded");
```

TC97: To verify input functionality of Name, Email and Website of sample page form

Selenium WebDriver Pseudo Code:

```
driver.findElement(By.id("g2599-name")).sendKeys("Shubhangi");
driver.findElement(By.id("g2599-email")).sendKeys("shubh@gmail.com");
driver.findElement(By.id("g2599-website")).sendKeys("www.shubhangi.com");
```

TC98: To verify to select the element from dropdown list

Selenium WebDriver Pseudo Code:

```
//Dropdown List
Select drplist =new Select(driver.findElement(By.id("g2599-experienceinyears")));

drplist.selectByVisibleText("3-5");
```

TC99: To verify to tick checkboxes of sample page form

Selenium WebDriver Pseudo Code:

```
//checkboxes
driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]
/div[2]/div[2]/form[1]/div[5]/label[2]/input[1]")).click();

driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]
/div[2]/div[2]/form[1]/div[5]/label[3]/input[1]")).click();

driver.findElement(By.xpath("//body/div[@id='wrapper']/div[1]/div[2]/div[1]/div[1]
/div[2]/div[2]/form[1]/div[5]/label[4]/input[1]")).click();
```

TC100: To verify to click radio button of sample page form

Selenium WebDriver Pseudo Code:

```
//radio buttons
driver.findElement(By.xpath("//*[@id=\"contact-form-
2599\"]/form/div[6]/label[2]/input")).click();
driver.findElement(By.xpath("//*[@id=\"contact-form-
2599\"]/form/div[6]/label[3]/input")).click();
```

TC101: To verify 'Alert Box: Click Here' button shows pop-up window

Selenium WebDriver Pseudo Code:

```
//Alert button
driver.findElement(By.xpath("//button[contains(text(),'Alert Box : Click
Here')]")).click();
```

TC102: To verify click on cancel button and then ok button of pop-up window

Selenium WebDriver Pseudo Code:

```
Alert alert = driver.switchTo().alert();
System.out.println("Text is:" +alert.getText());
alert.dismiss();
alert.accept();
```

TC103: To verify input function of comment textarea of sample page form

Selenium WebDriver Pseudo Code:

```
driver.findElement(By.id("contact-form-comment-g2599-comment")).sendKeys("This
is demo project");
```

TC104: To verify submit button of sample page form and to check the new page is open and showing all input data

Selenium WebDriver Pseudo Code:

```
//submit button
```

```
driver.findElement(By.xpath("//button[contains(text(),'Submit')]")).submit();
```

TC105: To verify to scroll the page

Selenium WebDriver Pseudo Code:

```
driver.manage().timeouts().implicitlyWait(200, TimeUnit.MILLISECONDS);

//scroll up
JavascriptExecutor js = (JavascriptExecutor) driver;
js.executeScript("window.scrollBy(0, -2000)");

//Thread.sleep(3000);
System.out.println("Scroll Up");
```

TC106: To verify to click on "Go Back" button and to check its navigate to previous page

Selenium WebDriver Pseudo Code:

```
//click on go back
driver.findElement(By.xpath("//a[contains(text(),'go back')]")).click();
```