**SBA 4:**

**To validate the below website (with atleast 10 different scenarios) depicting the selenium-webdriver and TestNG frameworks.**

[**Register: Mercury Tours (guru99.com)**](https://demo.guru99.com/test/newtours/register.php)

**CODE:-**

**Class Name : Mercury Tours**

package TestNGpractice;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.support.ui.Select;

import org.testng.Assert;

import org.testng.annotations.AfterTest;

import org.testng.annotations.BeforeMethod;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.Test;

public class MercuryTours {

WebDriver driver;

String webDriver ="webdriver.chrome.driver";

String driverPath ="C:\\Users\\ustjavasdetb423\\Desktop\\chromedriver\_win32\\chromedriver.exe";

String baseURL = "http://demo.guru99.com/test/newtours/register.php";

@BeforeTest

public void loadComponents() {

System.setProperty(webDriver, driverPath);

driver = new ChromeDriver();

}

@BeforeMethod

public void connectWebsite() {

System.out.println("<-- Connecting to "+ baseURL + " -->");

driver.navigate().to(baseURL);

System.out.println("<-- Connected -->");

}

@Test

public void checkTitle() {

String expected = "Register: Mercury Tours";

String actual = driver.getTitle();

Assert.assertEquals(expected, actual);

}

@Test

public void checkUserInformationWarning() {

driver.findElement(By.id("email")).sendKeys("abcd@gmail.com");

driver.findElement(By.name("password")).sendKeys("12345678");

driver.findElement(By.name("confirmPassword")).sendKeys("123456");

driver.findElement(By.name("submit")).click();

boolean warning = driver.findElement(By.xpath("/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[4]/td/table/tbody/tr/td[2]/table/tbody/tr[5]/td/form/table/tbody/tr[15]/td[2]/span")).isDisplayed();

Assert.assertEquals(warning, true);

}

@Test

public void checkUserInformation() {

driver.findElement(By.id("email")).sendKeys("abcd@gmail.com");

driver.findElement(By.name("password")).sendKeys("12345678");

driver.findElement(By.name("confirmPassword")).sendKeys("12345678");

driver.findElement(By.name("submit")).click();

String expected = "sign-in";

String actual =driver.findElement(By.xpath("/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[4]/td/table/tbody/tr/td[2]/table/tbody/tr[3]/td/p[2]/font/a")).getText();

Assert.assertEquals(actual,expected);

}

@Test

public void checkCountryDrpdwn() {

List<WebElement> options = driver.findElements(By.xpath("/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[4]/td/table/tbody/tr/td[2]/table/tbody/tr[5]/td/form/table/tbody/tr[11]/td[2]/select/option"));

for(int i=0;i<options.size();i++) {

options.get(i).click();

boolean isSelc = options.get(i).isSelected();

Assert.assertEquals(isSelc, true);

}

}

@Test

public void find() {

Select drpCountry = new Select(driver.findElement(By.name("country")));

drpCountry.selectByVisibleText("ANTARCTICA");

}

@Test

public void checkNavBar() {

for(int i=1;i<=2;i++) {

String xpath ="/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[2]/td/table/tbody/tr/td["+i+"]/a";

WebElement navElement = driver.findElement(By.xpath(xpath));

String pageName = navElement.getText().toLowerCase();

String flpageName = pageName.substring(0,1).toUpperCase();

pageName = flpageName+pageName.substring(1);

String expected = pageName+": Mercury Tours";

navElement.click();

String actual = driver.getTitle();

Assert.assertEquals(actual, expected);

}

}

@Test

public void checkLinkClickWorking() {

List<WebElement> alllinks = driver.findElements(By.xpath("/html/body/div[2]/table/tbody/tr/td[1]/table/tbody/tr/td/table/tbody/tr/td/table/tbody/tr"));

String a[]=new String[alllinks.size()];

System.out.println("links: "+alllinks.size());

for(int i=0;i<alllinks.size();i++) {

a[i]=alllinks.get(i).getText();

}

for(int i=0;i<alllinks.size();i++) {

System.out.println("clicking on link::"+ driver.findElement(By.linkText(a[i])).getText());

driver.findElement(By.linkText(a[i])).click();

}

}

@Test

public void checkRoutingOfSidebar() {

List<WebElement> alllinks = driver.findElements(By.xpath("/html/body/div[2]/table/tbody/tr/td[1]/table/tbody/tr/td/table/tbody/tr/td/table/tbody/tr"));

String arr1[]=new String[alllinks.size()];

System.out.println("links: "+alllinks.size());

for(int i=0;i<alllinks.size();i++) {

arr1[i]=alllinks.get(i).getText();

}

String[] arr2 = { "Welcome: Mercury Tours", "Find a Flight: Mercury Tours:",

"Under Construction: Mercury Tours", "Under Construction: Mercury Tours", "Welcome: Mercury Tours",

"Under Construction: Mercury Tours", "Under Construction: Mercury Tours", };

for (int i = 0; i < arr1.length; i++) {

driver.findElement(By.linkText(arr1[i])).click();

String e = driver.getTitle();

Assert.assertEquals(arr2[i], e);

}

}

@Test

public void f3() {

driver.findElement(By.linkText("Flights")).click();

Select s1 = new Select(driver.findElement(By.name("fromPort")));

s1.selectByValue("New York");

driver.findElement(By.xpath(

"/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[4]/td/table/tbody/tr/td[2]/table/tbody/tr[5]/td/form/table/tbody/tr[9]/td[2]/font/font/input[1]"))

.click();

;

driver.findElement(By.name("findFlights")).click();

String a = "After flight finder - No Seats Avaialble ";

String e = driver.findElement(By.xpath(

"/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[4]/td/table/tbody/tr[1]/td[2]/table/tbody/tr[1]/td/p/font/b/font[1]"))

.getText();

Assert.assertEquals(a, e);

}

@Test

public void f4() {

String e=driver.findElement(By.cssSelector("body > div:nth-child(5) > table > tbody > tr > td:nth-child(1) > table > tbody > tr > td > table > tbody > tr > td > p:nth-child(1) > img")).getAttribute("alt");

Assert.assertEquals("Mercury Tours", e);

}

@Test

public void f5() {

String e=driver.findElement(By.xpath("/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[2]/td")).getAttribute("bgcolor");

Assert.assertEquals("#FF9900", e);

}

@Test

public void f6() {

driver.findElement(By.linkText("Home")).click();

String e=driver.findElement(By.cssSelector("body > div:nth-child(5) > table > tbody > tr > td:nth-child(2) > table > tbody > tr:nth-child(4) > td > table > tbody > tr > td:nth-child(2) > table > tbody > tr:nth-child(2) > td:nth-child(3) > form > table > tbody > tr:nth-child(1) > td > font > b")).getText();

Assert.assertEquals("Jul 6, 2017", e);

}

@AfterTest

public void terminateBrowser() {

driver.close();

}

}

**Class Name : MercuryToursBackend**

package TestNGpractice;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.testng.Assert;

import org.testng.annotations.AfterTest;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.Test;

public class MercuryToursBackend {

WebDriver driver;

String webDriver ="webdriver.chrome.driver";

String driverPath ="C:\\Users\\ustjavasdetb423\\Desktop\\chromedriver\_win32\\chromedriver.exe";

String baseURL = "http://demo.guru99.com/test/newtours/register.php";

@Test(priority =0)

public void checkUserInformation() {

driver.findElement(By.id("email")).sendKeys("abcd@gmail.com");

driver.findElement(By.name("password")).sendKeys("12345678");

driver.findElement(By.name("confirmPassword")).sendKeys("12345678");

driver.findElement(By.name("submit")).click();

String expected = "sign-in";

String actual =driver.findElement(By.linkText("sign-in")).getText();

Assert.assertEquals(actual,expected);

}

@Test(priority =1) //dijal

public void checkSignOff() {

driver.findElement(By.linkText("SIGN-OFF")).click();

String expected ="SIGN-ON";

String actual = driver.findElement(By.linkText("SIGN-ON")).getText();

Assert.assertEquals(actual,expected);

}

@Test(priority =2)

public void checkSignInFailureWarning() {

driver.findElement(By.linkText("SIGN-ON")).click();

driver.findElement(By.name("userName")).sendKeys("abcd@gmail.com");

driver.findElement(By.name("password")).sendKeys("12345");

driver.findElement(By.name("submit")).click();

boolean check = driver.findElement(By.xpath("/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[4]/td/table/tbody/tr/td[2]/table/tbody/tr[5]/td/form/table/tbody/tr[2]/td[2]/span")).isDisplayed();

Assert.assertEquals(check, true);

}

@Test(priority =3)

public void checkSignInSuccess() {

String expected = "Login Successfully";

driver.findElement(By.name("userName")).sendKeys("abcd@gmail.com");

driver.findElement(By.name("password")).sendKeys("12345678");

driver.findElement(By.name("submit")).click();

String actual = driver.findElement(By.xpath("/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[4]/td/table/tbody/tr/td[2]/table/tbody/tr[1]/td/h3")).getText();

Assert.assertEquals(actual, expected);

}

@BeforeTest

public void loadComponents() {

System.setProperty(webDriver, driverPath);

driver = new ChromeDriver();

System.out.println("<-- Connecting to "+ baseURL + " -->");

driver.navigate().to(baseURL);

System.out.println("<-- Connected -->");

}

@AfterTest

public void terminateBrowser() {

driver.close();

}

}