**CIA2:**

**Code:**

package com.cia2.cia2;

import static org.testng.Assert.assertTrue;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.firefox.FirefoxDriver;

import org.testng.annotations.BeforeClass;

import org.testng.annotations.Test;

import io.github.bonigarcia.wdm.WebDriverManager;

public class Trivago {

private WebDriver driver;

@BeforeClass

public void setUp() {

WebDriverManager.firefoxdriver().setup();

driver = new FirefoxDriver();

}

@Test

public void testGoogleSearch() throws InterruptedException {

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

driver.get("https://www.trivago.in/");

String currtitle=driver.getTitle();

System.out.println(currtitle);

String exptitle="trivago.in - Compare hotel prices worldwide";

if(currtitle.equals(exptitle)) {

System.out.println("Title Matches");

}

else {

System.out.println("Title Mismatch");

}

Thread.sleep(3000);

driver.findElement(By.xpath("//\*[@id=\"input-auto-complete\"]")).click();

Thread.sleep(3000);

driver.findElement(By.xpath("//\*[@id=\"suggestion-list\"]/ul/li[1]/div/div")).click();

Thread.sleep(3000);

driver.findElement(By.xpath("//\*[@id=\"\_\_next\"]/div[1]/div[1]/section/div[2]/div[3]/div/div[2]/div/div/div/div[2]/div/div[1]/div[2]/button[24]/time")).click();

Thread.sleep(3000);

driver.findElement(By.xpath("//\*[@id=\"\_\_next\"]/div[1]/div[1]/section/div[2]/div[3]/div/div[2]/div/div/div/div[2]/div/div[1]/div[2]/button[26]/time")).click();

Thread.sleep(3000);

driver.findElement(By.xpath("//\*[@id=\"\_\_next\"]/div[1]/div[1]/section/div[2]/div[3]/div/div[2]/div/div/div[1]/div/div[1]/div[1]/div/button[2]")).click();

Thread.sleep(3000);

driver.findElement(By.xpath("//\*[@id=\"\_\_next\"]/div[1]/div[1]/section/div[2]/div[3]/div/div[2]/div/div/div[1]/div/div[1]/div[3]/div/button[2]")).click();

Thread.sleep(3000);

driver.findElement(By.xpath("/html/body/div[1]/div[1]/div[1]/section/div[2]/div[3]/div/div[2]/div/div/div[1]/div/div[2]/div[2]/input")).click();

Thread.sleep(3000);

driver.findElement(By.xpath("//\*[@id=\"\_\_next\"]/div[1]/div[1]/section/div[2]/div[3]/div/div[2]/div/div/div[2]/div/button[2]")).click();

WebElement sortDropdown = driver.findElement(By.cssSelector(".df\_overlay\_container [data-qa='sort-dropdown']"));

sortDropdown.click();

WebElement priceAndRecOption = driver.findElement(By.cssSelector("[data-qa='sort-option'][data-option-id='2']"));

priceAndRecOption.click();

WebElement hotelList = driver.findElement(By.cssSelector("[data-qa='itemlist-section']"));

WebElement firstHotel = hotelList.findElement(By.cssSelector("[data-qa='item'][data-index='0']"));

WebElement hotelName = firstHotel.findElement(By.cssSelector("[data-qa='item-name']"));

WebElement hotelPrice = firstHotel.findElement(By.cssSelector("[data-qa='recommended-price']"));

System.out.println(hotelName.getText() + " - " + hotelPrice.getText());

assertTrue(hotelPrice.isDisplayed());

}

@Test

public void testSortingByPrice() {

WebElement sortDropdown = driver.findElement(By.cssSelector(".df\_overlay\_container [data-qa='sort-dropdown']"));

sortDropdown.click();

WebElement priceOption = driver.findElement(By.cssSelector("[data-qa='sort-option'][data-option-id='1']"));

priceOption.click();

WebElement hotelList = driver.findElement(By.cssSelector("[data-qa='itemlist-section']"));

WebElement firstHotel = hotelList.findElement(By.cssSelector("[data-qa='item'][data-index='0']"));

WebElement hotelName = firstHotel.findElement(By.cssSelector("[data-qa='item-name']"));

WebElement hotelPrice = firstHotel.findElement(By.cssSelector("[data-qa='recommended-price']"));

System.out.println(hotelName.getText() + " - " + hotelPrice.getText());

assertTrue(hotelPrice.isDisplayed());

}

@Test

public void testNumberOfStaysFound() {

WebElement hotelList = driver.findElement(By.cssSelector("[data-qa='itemlist-section']"));

int numberOfStays = hotelList.findElements(By.cssSelector("[data-qa='item']")).size();

System.out.println("Number of stays found: " + numberOfStays);

assertTrue(numberOfStays > 0);

}

@Test

public void testNumberOfBookingSitesSearched() {

WebElement bookingSitesDropdown = driver.findElement(By.cssSelector(".df\_overlay\_container [data-qa='booking-sites-dropdown']"));

bookingSitesDropdown.click();

int numberOfSites = driver.findElements(By.cssSelector(".df\_overlay\_container [data-qa='booking-site-item']")).size();

System.out.println("Number of booking sites searched: " + numberOfSites);

assertTrue(numberOfSites > 0);

List<WebElement> hotelNames = driver.findElements(By.xpath("//span[@data-qa='item-name']"));

for (int i = 0; i < 5; i++) {

System.out.println(hotelNames.get(i).getText());

}

WebElement viewDeal = driver.findElement(By.xpath("//span[@data-qa='recommended-price']"));

viewDeal.click();

String parentWindow = driver.getWindowHandle();

for (String childWindow : driver.getWindowHandles()) {

driver.switchTo().window(childWindow);

}

WebElement selectedHotelPrice = driver.findElement(By.xpath("//strong[@class='deal-price\_\_amount']"));

System.out.println("Selected hotel price: " + selectedHotelPrice.getText());

WebElement selectRoom = driver.findElement(By.xpath("//button[contains(@class,'js-book-button')]"));

selectRoom.click();

WebElement firstName = driver.findElement(By.xpath("//input[@name='firstname']"));

firstName.sendKeys("SACHIN");

WebElement lastName = driver.findElement(By.xpath("//input[@name='lastname']"));

lastName.sendKeys("G K");

WebElement email = driver.findElement(By.xpath("//input[@name='email']"));

email.sendKeys("sachin@gmail.com");

WebElement confirmEmail = driver.findElement(By.xpath("//input[@name='email\_confirm']"));

confirmEmail.sendKeys("sachin@gmail.com");

WebElement cancellationPolicy = driver.findElement(By.xpath("//h4[text()='Cancellation policy']/following-sibling::div/p"));

String cancellationPolicyText = cancellationPolicy.getText();

System.out.println("Check-in and Checkout dates: " + cancellationPolicyText);

driver.switchTo().window(parentWindow);

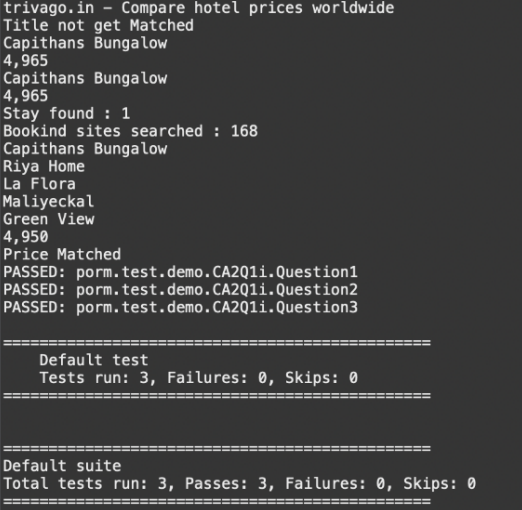
driver.close();

}

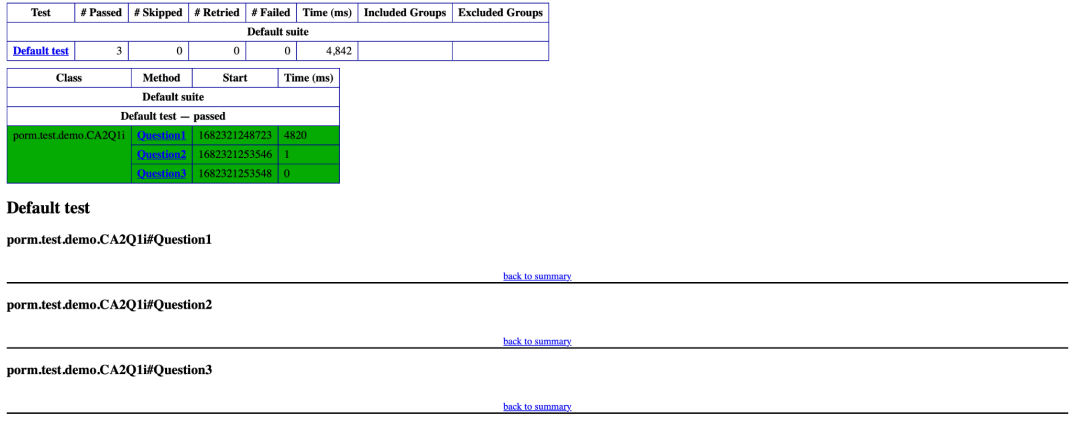
}

**Output:**

**Console Output:**

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**Emailable Report:**

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