package testng\_package;

import org.openqa.selenium.By;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

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

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

import org.testng.Assert;

import org.testng.annotations.\*;

import java.lang.reflect.Method;

import java.time.Duration;

import java.util.ArrayList;

import java.util.List;

public class Ebay\_Assignment {

WebDriver driver;

WebDriverWait wait;

@BeforeTest

public void setUp() {

driver = new ChromeDriver();

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

wait = new WebDriverWait(driver, Duration.ofSeconds(10));

driver.get("https://www.ebay.com/");

dismissCookiesIfPresent();

}

// Handle cookie banner if it appears

private void dismissCookiesIfPresent() {

try {

WebElement cookiesBtn = wait.until(

ExpectedConditions.presenceOfElementLocated(By.cssSelector("button[aria-label\*='Accept']"))

);

cookiesBtn.click();

} catch (Exception e) {

System.out.println("No cookies popup found.");

}

}

@Test(priority = 1)

public void loginTest() {

wait.until(ExpectedConditions.elementToBeClickable(By.linkText("Sign in"))).click();

wait.until(ExpectedConditions.visibilityOfElementLocated(By.id("userid")))

.sendKeys("mangalipragati98@gmail.com");

driver.findElement(By.id("signin-continue-btn")).click();

wait.until(ExpectedConditions.visibilityOfElementLocated(By.id("pass")))

.sendKeys("Pragati@123");

driver.findElement(By.id("sgnBt")).click();

Assert.assertTrue(driver.getPageSource().contains("My eBay"), "Login failed");

}

@AfterMethod

public void postConditionLogin() {

System.out.println("Verified user is logged in.");

}

@Test(priority = 2)

public void multipleSearch() throws InterruptedException {

WebElement search=driver.findElement(By.id("gh-ac"));

String[] searchs = {"Laptop", "iPhone", "Watch", "Bag"};

for (String item : searchs) {

search.sendKeys(item);

search.sendKeys(Keys.ENTER);

Thread.sleep(3000);

search=driver.findElement(By.id("gh-ac"));

search.clear();

}

}

@AfterMethod

public void postConditionMultipleSearch() {

System.out.println("Verified multiple search functionality.");

}

@Test(priority = 3)

public void addToCart() throws InterruptedException {

WebElement search=driver.findElement(By.id("gh-ac"));

search.sendKeys("headset wireless");

search.sendKeys(Keys.ENTER);

Thread.sleep(3000);

JavascriptExecutor jse=(JavascriptExecutor)driver;

jse.executeScript("window.scrollBy(0.400)");

WebElement addtocart=driver.findElement(By.xpath("//\*[@id=\"item4e35cd8c15\"]/div/div[1]/div/a/div/img"));

addtocart.click();

Thread.sleep(3000);

ArrayList<String>tabs=new ArrayList<>(driver.getWindowHandles());

driver.switchTo().window(tabs.get(1));

driver.findElement(By.id("atcBtn\_btn\_1")).click();

Thread.sleep(3000);

driver.switchTo().window(tabs.get(1));

WebElement cart=driver.findElement(By.xpath("//\*[@id=\"mainContent\"]/div[1]/div[6]/ul/li[2]/div[1]/div/div[2]/div[3]/div/div/div[1]/div[2]/div/div/div/div[1]/a"));

cart.click();

}

@AfterMethod

public void postConditionAddToCart() {

System.out.println("Item added to cart successfully.");

}

@Test(priority = 4)

public void deleteFromCartTest() {

WebElement cartIcon=driver.findElement(By.cssSelector("gh-cart\_\_icon"));

cartIcon.click();

WebElement removecart=driver.findElement(By.id("cart-remove-item"));

removecart.click();

// driver.findElement(By.cssSelector(".cart-bucket .action-link")).click();

Assert.assertFalse(driver.getPageSource().contains("headset wireless"));

}

@AfterMethod

public void postConditionDeleteCart() {

System.out.println("Item deleted from cart successfully.");

}

@Test(priority = 5)

public void changeLoginNameTest() {

driver.findElement(By.linkText("My eBay")).click();

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

driver.findElement(By.linkText("Personal Information")).click();

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

driver.findElement(By.id("firstname")).clear();

driver.findElement(By.id("firstname")).sendKeys("NewName");

driver.findElement(By.id("saveButton")).click();

Assert.assertTrue(driver.getPageSource().contains("NewName"));

}

@AfterMethod

public void postConditionChangeName() {

System.out.println("User name changed successfully.");

}

@Test(priority = 6)

public void changeAddressTest() {

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

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

driver.findElement(By.id("address1")).clear();

driver.findElement(By.id("address1")).sendKeys("123 New Street");

driver.findElement(By.id("saveAddress")).click();

Assert.assertTrue(driver.getPageSource().contains("123 New Street"));

}

@AfterMethod

public void postConditionChangeAddress() {

System.out.println("Address updated successfully.");

}

@Test(priority = 7)

public void shopByCategoriesTest() throws InterruptedException {

WebElement shopbycat=driver.findElement(By.xpath("//\*[@id=\"gh\"]/section/div/div/div/button/span"));

shopbycat.click();

Thread.sleep(2000);

WebElement item=driver.findElement(By.xpath("//\*[@id=\"s0-1-4-12-0-1-dialog\"]/div/div/div[1]/div[2]/div[1]/a/h3"));

item.click();

Assert.assertTrue(driver.getTitle().contains("Electronics"));

}

@AfterMethod

public void postConditionCategories() {

System.out.println("Shop by categories works fine.");

}

@Test(priority = 8)

public void getProductDescription() {

wait.until(ExpectedConditions.visibilityOfElementLocated(By.id("gh-ac"))).clear();

driver.findElement(By.id("gh-ac")).sendKeys("Headphones");

driver.findElement(By.id("gh-btn")).click();

wait.until(ExpectedConditions.elementToBeClickable(By.cssSelector(".s-item a.s-item\_\_link"))).click();

List<String> tabs = new ArrayList<>(driver.getWindowHandles());

driver.switchTo().window(tabs.get(1));

WebElement productImage = wait.until(

ExpectedConditions.presenceOfElementLocated(By.cssSelector(".ux-image-carousel-item img"))

);

String description = productImage.getAttribute("alt");

Assert.assertNotNull(description, "Product description not found");

System.out.println("Product Description: " + description);

driver.close();

driver.switchTo().window(tabs.get(0));

}

@AfterMethod

public void postConditionRightClickDescription() {

System.out.println("Fetched product description from image alt text.");

}

@Test(priority = 9)

public void shopByAllCategories() {

wait.until(ExpectedConditions.elementToBeClickable(By.id("gh-shop-a"))).click();

// wait.until(ExpectedConditions.elementToBeClickable(By.linkText("See all categories"))).click();

Assert.assertTrue(driver.getTitle().contains("All Categories"), "All categories page not loaded");

}

@AfterMethod

public void postConditionAllCategories() {

System.out.println("Shop by all categories works fine.");

}

@Test(priority = 10)

public void changeLanguage() {

wait.until(ExpectedConditions.elementToBeClickable(By.cssSelector("button[aria-label\*='Language settings']"))).click();

wait.until(ExpectedConditions.elementToBeClickable(By.linkText("Español"))).click();

Assert.assertTrue(driver.getPageSource().contains("Iniciar sesión"), "Language not changed to Spanish");

}

@AfterMethod

public void postConditionChangeLanguage() {

System.out.println("Language changed successfully.");

}

@AfterTest

public void afterTest() {

driver.quit();

}

}