# Day – 21

Create testing class

Project URL= <https://www.ebay.com/>

1. Add pre-requisite
2. Create 10 testcases for

1.Login

2.Multiple searches using array list or array

3.Add to cart

4.delete from cart

5.Change login name

6. change current address

7.shop by categories

8.select particular product right click on that product image and find out description of that product.

9.shop by all categories and check whether this function is working fine or not

10. change the language of your application using setting

Code:

**// EBAY**

package Testing\_package;

import org.openqa.selenium.\*;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.interactions.Actions;

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

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

import org.testng.Assert;

import org.testng.annotations.BeforeClass;

import org.testng.annotations.Test;

import java.time.Duration;

import java.util.ArrayList;

import java.util.List;

public class eBayTestCases {

private WebDriver driver;

private WebDriverWait wait;

private Actions actions;

PageClass page;

private static final String EBAY\_URL = "https://www.ebay.com/";

private static final String USERNAME = "username951520@gmail.com";

private static final String PASSWORD = "Ammanana@0310";

private static final String NEW\_USERNAME = "saibavesh6665";

private static final String NEW\_ADDRESS = "langer housz, hyderabad, teleganan, 564006";

@BeforeClass

public void setUp() {

driver = new ChromeDriver();

page = new PageClass(driver);

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

driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));

wait = new WebDriverWait(driver, Duration.ofSeconds(15));

actions = new Actions(driver);

driver.get(EBAY\_URL);

}

//Login

@Test(priority = 1)

public void testLogin() {

driver.get("https://signin.ebay.com/ws/eBayISAPI.dll?SignIn&sgfl=gh");

// login

PageClass pg = new PageClass(driver);

pg.email\_in();

pg.con\_in();

pg.pass\_in();

pg.submit\_in();

}

//Multiple searches

@Test(priority = 2)

public void testMultipleSearches() {

String[] searchItems = {"laptop", "smartphone", "headphones", "watch", "camera"};

PageClass pg = new PageClass(driver);

try {

for (String item : searchItems) {

pg.searchItem(item);

pg.clickSearchButton();

pg.navigateToHome();

}

} catch (Exception e) {

Assert.fail("Test failed: " + e.getMessage());

}

}

@Test(priority = 3)

public void addToCart() {

page.navigateToProductPage();

page.clickAddToCart();

page.goToCart();

}

@Test(priority = 4, dependsOnMethods = "addToCart")

public void deleteFromCart() {

page.goToCart();

page.removeItemFromCart();

page.navigateToHome();

}

@Test(priority = 5)

public void ShopByCategories() {

page.hoverOverCategoryMenu();

page.selectElectronicsCategory();

page.navigateToHomePage();

}

@Test(priority = 6)

public void getProductDescription() {

try {

// search

page.navigateToHomePage();

page.searchForProduct("laptop");

//Scroll andclick product

page.scrollDown(500);

page.clickProductImage();

//new window

page.switchToNewWindow();

// Get and verify description

String productDesc = page.getProductDescription();

System.out.println("= product description =\n" + productDesc);

Assert.assertFalse(productDesc.isEmpty(), "Description should not be empty");

//back to lapotop

page.closeNewWindowAndSwitchBack();

} catch (Exception e) {

Assert.fail("Test failed: " + e.getMessage());

}

}

@Test(priority = 7)

public void languageSelectionTest() {

//Initialize and maximize

page.maximizeWindow();

page.navigateToHomePage();

//Hover and select language

page.hoverOverLanguageDropdown();

page.selectGermanLanguage();

}

@Test(priority = 8)

public void shopByCategoryAll() throws InterruptedException {

page.openCategoryMenu();

List<WebElement> categoryElements = page.getAllCategories();

for (WebElement category : categoryElements) {

page.highlightElement(category);

page.clickCategory(category);

page.navigateBack();

page.openCategoryMenu();

}

}

@Test(priority = 9)

public void changeLoginName() throws InterruptedException {

page.hoverOverUserProfile();

page.navigateToAccountSettings();

page.clickAccountSettingsLink();

page.clickEditUsername();

page.updateUsername(NEW\_USERNAME);

page.loginAfterUsernameChange("username951520@gmail.com", "Ammanana@0310");

}

@Test(priority = 10)

public void changeaddress() throws InterruptedException {

page.hoverOverUserProfile1();

page.navigateToAccountSettings1();

page.clickAccountSettings1();

page.scrollDown(400);

page.clickEditAddress();

page.scrollDown(400);

page.updateAddress("langer housz, hyderabad, teleganan, 564006", "Hyderabad", "500085");

}

}

//PAGE CODE

package Testing\_package;

import org.openqa.selenium.By;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.interactions.Actions;

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

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

import java.time.Duration;

import java.util.ArrayList;

import java.util.List;

public class PageClass {

WebDriver driver;

private WebDriverWait wait;

By email = By.id("userid");

By pass = By.id("pass");

By cont = By.id("signin-continue-btn");

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

By Submit = By.id("sgnBt");

By searchButton = By.id("gh-search-btn");

By addToCartBtn = By.cssSelector("a[id\*='atcBtn']");

By goToCartBtn = By.cssSelector("a[href\*='cart.ebay.com']");

By removeFromCartBtn = By.cssSelector("button[data-test-id\*='cart-remove']");

By emptyCartMessage = By.xpath("//div[contains(text(),'Your cart is empty')]");

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

By electronicsCategory = By.xpath("//a[text()='Electronics']");

By ProductImage = By.cssSelector("#item1b29775252 > div > div.s-item\_\_image-section > div > a > div > img");

By productDescription = By.xpath("//div[@id='vi-desc-maincntr'] | //div[contains(@class,'item-desc')]");

By languageDropdown = By.cssSelector("button[aria-label\*='eBay Sites']");

By germanLanguageOption = By.linkText("Germany");

By categoriesall = By.className("gh-categories\_\_cat");

By categoryMenu1 = By.cssSelector("#gh > section > div > div");

By userProfileDropdown = By.cssSelector("#gh > nav > div.gh-nav\_\_left-wrap > span.gh-identity");

By accountSettingsLink = By.xpath("//\*[@id=\"account-settings-link-PI\"]");

By editUsernameButton = By.id("individual\_username\_edit\_button");

By usernameInput = By.id("user\_name");

By usernameSubmitButton = By.id("username\_submit\_edit\_btn");

By editAddressButton = By.id("individual\_personal\_info\_address\_edit\_button");

By addressLine1Input = By.id("addressLine1");

By cityInput = By.id("city");

By stateDropdown = By.cssSelector("select>option[value=\"TS\"]");

By postalCodeInput = By.id("postalCode");

By addressSubmitButton = By.id("address\_edit\_submit\_button");

//By categories = By.className("gh-categories\_\_cat");

public static final String EBAY\_URL = "https://www.ebay.com/";

public static final String PRODUCT\_PAGE = "https://www.ebay.com/itm/365723415668";

public static final String CART\_PAGE = "https://cart.ebay.com/";

public static final String ACCOUNT\_SETTINGS\_URL = "https://accountsettings.ebay.com/uas";

public static final String NEW\_USERNAME = "saibavesh"; // Define this constant

public PageClass(WebDriver driver) {

this.driver = driver;

}

public void email\_in() {

driver.findElement(email).click();

driver.findElement(email).clear();

driver.findElement(email).sendKeys("username951520@gmail.com");

}

public void pass\_in() {

driver.findElement(pass).click();

driver.findElement(pass).sendKeys("Ammanana@0310");

}

public void con\_in() {

driver.findElement(cont).click();

}

public void submit\_in() {

driver.findElement(Submit).click();

}

public void searchItem(String item) {

WebElement searchBox = driver.findElement(search);

searchBox.click();

searchBox.clear();

searchBox.sendKeys(item);

}

public void clickSearchButton() {

driver.findElement(searchButton).click();

}

public void navigateToHome() {

driver.get(EBAY\_URL);

}

public void navigateToProductPage() {

driver.get(PRODUCT\_PAGE);

}

public void clickAddToCart() {

driver.findElement(addToCartBtn).click();

}

public void goToCart() {

driver.findElement(goToCartBtn).click();

}

public void removeItemFromCart() {

driver.findElement(removeFromCartBtn).click();

}

public boolean isCartEmpty() {

return driver.findElement(emptyCartMessage).isDisplayed();

}

public void hoverOverCategoryMenu() {

WebElement menu = driver.findElement(categoryMenu);

new Actions(driver).moveToElement(menu).perform();

}

public void selectElectronicsCategory() {

driver.findElement(electronicsCategory).click();

}

public void navigateToHomePage() {

driver.get(EBAY\_URL);

}

//rightclick

public void searchForProduct(String productName) {

driver.findElement(search).clear();

driver.findElement(search).sendKeys(productName);

driver.findElement(searchButton).click();

}

public void scrollDown(int pixels) {

((JavascriptExecutor)driver).executeScript("window.scrollBy(0," + pixels + ")");

}

public void clickProductImage() {

driver.findElement(ProductImage).click();

}

public void switchToNewWindow() {

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

if(tabs.size() > 1) {

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

}

}

public String getProductDescription() {

return driver.findElement(productDescription).getText();

}

public void closeNewWindowAndSwitchBack() {

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

if(tabs.size() > 1) {

driver.close();

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

}

}

// language

public void maximizeWindow() {

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

}

public void hoverOverLanguageDropdown() {

WebElement dropdown = driver.findElement(languageDropdown);

new Actions(driver).moveToElement(dropdown).perform();

}

public void selectGermanLanguage() {

driver.findElement(germanLanguageOption).click();

}

//allcategories

public void openCategoryMenu() throws InterruptedException {

WebElement menu = driver.findElement(categoryMenu1);

menu.click();

Thread.sleep(1500);

}

public List<WebElement> getAllCategories() {

return driver.findElements(categoriesall);

}

public void highlightElement(WebElement element) throws InterruptedException {

((JavascriptExecutor)driver).executeScript(

"arguments[0].style.border='3px solid yellow'", element);

Thread.sleep(1000);

}

public void clickCategory(WebElement category) throws InterruptedException {

category.click();

Thread.sleep(3000);

}

public void navigateBack() throws InterruptedException {

driver.navigate().back();

Thread.sleep(2000);

}

//username change

public void hoverOverUserProfile() throws InterruptedException {

WebElement profile = driver.findElement(userProfileDropdown);

new Actions(driver).moveToElement(profile).build().perform();

Thread.sleep(3000);

}

public void navigateToAccountSettings() throws InterruptedException {

driver.get(ACCOUNT\_SETTINGS\_URL);

Thread.sleep(3000);

}

public void clickAccountSettingsLink() throws InterruptedException {

driver.findElement(accountSettingsLink).click();

Thread.sleep(3000);

}

public void clickEditUsername() throws InterruptedException {

driver.findElement(editUsernameButton).click();

Thread.sleep(3000);

}

public void updateUsername(String newUsername) throws InterruptedException {

WebElement input = driver.findElement(usernameInput);

input.clear();

input.sendKeys(newUsername);

driver.findElement(usernameSubmitButton).click();

Thread.sleep(5000);

}

public void loginAfterUsernameChange(String email, String password) throws InterruptedException {

WebElement emailInput = driver.findElement(this.email);

emailInput.clear();

emailInput.sendKeys(email);

driver.findElement(cont).click();

Thread.sleep(3000);

WebElement passwordInput = driver.findElement(pass);

passwordInput.clear();

passwordInput.sendKeys(password);

driver.findElement(Submit).click();

Thread.sleep(4000);

}

//address change

public void hoverOverUserProfile1() throws InterruptedException {

WebElement profile = driver.findElement(userProfileDropdown);

new Actions(driver).moveToElement(profile).build().perform();

Thread.sleep(3000);

}

public void navigateToAccountSettings1() throws InterruptedException {

driver.get(ACCOUNT\_SETTINGS\_URL);

Thread.sleep(3000);

}

public void clickAccountSettings1() throws InterruptedException {

driver.findElement(accountSettingsLink).click();

Thread.sleep(3000);

}

public void scrollDown1(int pixels) {

((JavascriptExecutor)driver).executeScript("window.scrollBy(0," + pixels + ")");

}

public void clickEditAddress() throws InterruptedException {

driver.findElement(editAddressButton).click();

Thread.sleep(3000);

}

public void updateAddress(String newAddress, String city, String postalCode) throws InterruptedException {

// Update address line 1

WebElement addressInput = driver.findElement(addressLine1Input);

addressInput.clear();

addressInput.sendKeys(newAddress);

// Update city

WebElement cityInput = driver.findElement(this.cityInput);

cityInput.clear();

cityInput.sendKeys(city);

// Select state

driver.findElement(stateDropdown).click();

// Update postal code

WebElement postalCodeInput = driver.findElement(this.postalCodeInput);

postalCodeInput.clear();

postalCodeInput.sendKeys(postalCode);

// Submit changes

driver.findElement(addressSubmitButton).click();

Thread.sleep(5000);

}

}