HW9

Update TestAmazonSearch.java test case to TestAmazonSearchDataDriven.java Replace all Thread.sleep() by at least one Implicit waits and Explicit waits; Using data driven either from Excel sheet or BDD feature file Capture screenshot(s), the image names append with Date time.

MyStepdefsAmazon.java

```
package StepDefinition;
import cucumber.api.java.en.And;
import cucumber.api.java.en.Given;
import cucumber.api.java.en.Then;
import cucumber.api.java.en.When;
import org.apache.commons.io.FileUtils;
import org.openga.selenium.*;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openga.selenium.support.ui.Select;
import org.openqa.selenium.support.ui.WebDriverWait;
import java.io.File;
import java.io.IOException;
import java.sql.Timestamp;
import java.time.Duration;
import java.util.Date;
public class MyStepdefsAmazon {
    // add global definition here
   WebDriver driver;
    //Define file path for string
    String screenshotPath = "c:/CS522Screenshots";
    // Launch browser and go to amazon
    @Given ("Open the Chrome and launch the amazon application")
   public void launchBrowserGoToAmazon() {
        System.setProperty("webdriver.chrome.driver", "chromedriver");
        driver = new ChromeDriver();
        driver.get("http://www.amazon.com/");
    String timeStampReturm () {
       Date date = new Date();
        Timestamp ts=new Timestamp(date.getTime());
        return ts.toString();
    // Maximize window size
    @When ("Maximize window")
   public void maximizeWindowSize() {
       driver.manage().window().maximize();
    }
```

```
// Input a product item and click Search
    @And("Product Search")
    public void searchProduct() throws IOException {
        // implicit wait
        driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));
        // Explicit wait
        WebElement res = new WebDriverWait(driver,
Duration.ofSeconds(15)).until(ExpectedConditions
                .elementToBeClickable(By.id("twotabsearchtextbox")));
        driver.findElement(By.id("twotabsearchtextbox")).sendKeys("JBL
Speakers");
       // Screenshot capture
        //takeSnapShot(driver, screenshotPath + "//" + timeStampReturm()
+" product1.png") ;
        System.out.println("ScreenShot captured at "+ timeStampReturm());
        // Explicit wait
        WebElement res1 = new WebDriverWait(driver,
Duration.ofSeconds(15)).until(ExpectedConditions
                .elementToBeClickable(By.id("nav-search-submit-button")));
        driver.findElement(By.id("nav-search-submit-button")).click();
        // implicit wait of 10 sec
        driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));
    // Click the link Best Sellers
    @And("Open link BestSellers")
   public void openLinkBestSellers() {
        // implicit wait of 10 sec
        driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));
        // explicit wait
        WebElement res2 = new WebDriverWait(driver,
Duration.ofSeconds(15)).until(ExpectedConditions
                .elementToBeClickable(By.linkText("Best Sellers")));
        driver.findElement(By.linkText("Best Sellers")).click();
    // Navigate to ebay.com then go back
    @And ("Navigate to ebay and back to amazon")
    public void navigateToEbayGoBack() {
       driver.navigate().to("http://www.ebay.com/");
        // implicit wait of 10 sec
        driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));
        System.out.println("Now navigate to the title of page is " +
                driver.getTitle());
        driver.navigate().back();
        // implicit wait of 10 sec
        driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));
        System.out.println("Now navigate back to the title of page is " +
                driver.getTitle());
    // Select a search category
    @And("Select Category")
   public void selectCategory() {
```

```
Select category = new
Select(driver.findElement(By.id("searchDropdownBox")));
        category.selectByVisibleText("Electronics");
    // Close browser and exit
    @Then
("Close and exit")
   public void closeExit(){
       driver.quit();
    @And("Take Snapshot")
   public void takeSnapShot() throws IOException {
        //Convert web driver object to TakeScreenshot
        TakesScreenshot scrShot = ((TakesScreenshot)driver);
        //Call getScreenshotAs method to create image file
        File SrcFile=scrShot.getScreenshotAs(OutputType.FILE);
       //Move image file to new destination
        File DestFile=new File(screenshotPath + "//" + timeStampReturm()
+" product1.png");
        //Copy file at destination
        FileUtils.copyFile(SrcFile, DestFile);
    }
}
```

testAmazonSearchDataDriven.feature

Feature: Open Amazon website to explore the products

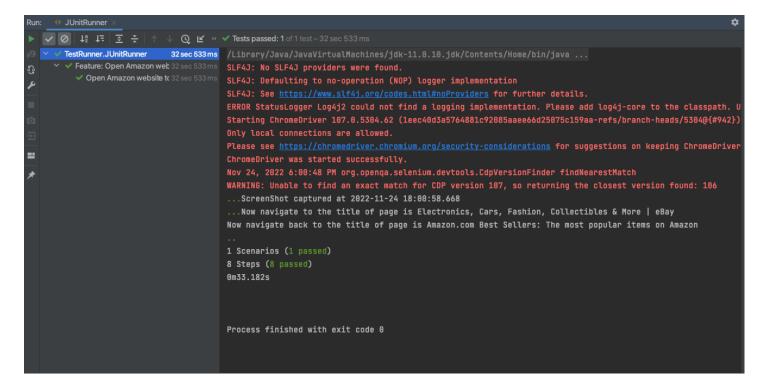
Scenario: Verification of searched product and take a screenshot

Given Open the Chrome and launch the amazon application

When Maximize window
And Select Category
And Product Search
And Take Snapshot
And Open link BestSellers
And Navigate to ebay and back to amazon

Attached Log

Then Close and exit



- Screenshot image names append with Date time

