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

```java
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 EbayAllTestCases {
```

```java
        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("manasaaduvala123@gmail.com");
            driver.findElement(By.id("signin-continue-btn")).click();

wait.until(ExpectedConditions.visibilityOfElementLocated(By.id("pass")))
                .sendKeys("@admin123");
            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
```

```java
        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<String>(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();
```

```java
                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();
```

```java
            List<String> tabs = new
ArrayList<String>(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[a
ria-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();
        }
    }
```