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package Testing;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;

import java.util.List;

public class HomePageAutomation {

    public static void main(String[] args) throws InterruptedException {

        System.setProperty("webdriver.chrome.driver", "C:\\Users\\hp\\libs\\chromedriver-
win64\\chromedriver.exe");

        ChromeOptions options = new ChromeOptions();
        options.addArguments("--remote-allow-origins=*");
        WebDriver driver = new ChromeDriver(options);

        try {

            driver.get("http://productedge.fwh.is/views/home_page.php");
            driver.manage().window().maximize();
            Thread.sleep(2000);

            System.out.println("Testing price filtering...");
            WebElement minPriceField = driver.findElement(By.id("min-price"));
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WebElement maxPriceField = driver.findElement(By.id("max-price"));
WebElement filterButton = driver.findElement(By.xpath("//button[text()='Filter']"));

// Input price range
minPriceField.sendKeys("10");
maxPriceField.sendKeys("50");
filterButton.click();
Thread.sleep(2000);

// Verify filtered products
List<WebElement> filteredProducts = driver.findElements(By.cssSelector(".product"));
for (WebElement product : filteredProducts) {
    String priceText = product.findElement(By.cssSelector(".price")).getText();
    double price = Double.parseDouble(priceText.replace("Price: $", ""));
    if (price < 10 || price > 50) {
        System.out.println("Error: Product outside price range displayed: $" + price);
    } else {
        System.out.println("Product within range: $" + price);
    }
}

// Test 2: Searching for a product
System.out.println("\nTesting product search...");
WebElement searchInput = driver.findElement(By.id("search-input"));
WebElement searchButton = driver.findElement(By.xpath("//button[text()='Search']"));

// Search for a product
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String searchQuery = "Coke";
searchInput.sendKeys(searchQuery);
searchButton.click();
Thread.sleep(2000);

// Verify search results
List<WebElement> searchResults = driver.findElements(By.cssSelector(".product"));
for (WebElement product : searchResults) {
    String productName = product.findElement(By.tagName("h2")).getText();
    if (!productName.toLowerCase().contains(searchQuery.toLowerCase())) {
        System.out.println("Error: Irrelevant product in search results: " + productName);
    } else {
        System.out.println("Relevant product found: " + productName);
    }
}

// === Test 3: Adding a product to the cart ===
System.out.println("\nTesting add to cart...");
List<WebElement> addToCartButtons =
driver.findElements(By.xpath("//button[@name='add_to_cart']"));

// Click the first 'Add to Cart' button
if (addToCartButtons.size() > 0) {
    WebElement firstProductButton = addToCartButtons.get(0);
    WebElement firstProduct =
firstProductButton.findElement(By.xpath("./ancestor::section[contains(@class, 'product')]"));
    String productName = firstProduct.findElement(By.tagName("h2")).getText();

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        firstProductButton.click();

        Thread.sleep(2000);

        System.out.println("Added product to cart: " + productName);
    } else {
        System.out.println("No products available to add to cart.");
    }

} catch (Exception e) {
    e.printStackTrace();
} finally {
    // Close the browser
    driver.quit();
}
}
```