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**SUB : DevOps**

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**Code of TestingSelenium.java:**

import org.openqa.selenium.By;

import org.openqa.selenium.JavascriptExecutor;

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 java.time.Duration;

import java.util.List;

public class TestingSelenium {

    public static void main(String[] args) {

        // Set the path to ChromeDriver

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

        // Initialize WebDriver

        WebDriver driver = new ChromeDriver();

        try {

            // Open the website

            driver.get("http://localhost/github/DevOpsLab/website/index.php");

            // Test Case 1: Verify Page Title

            try {

                System.out.println("Page title is: " + driver.getTitle());

                if (driver.getTitle().equals("TrendyShe")) {

                    System.out.println("✅ Test Passed: Home page loaded successfully.");

                } else {

                    System.out.println("❌ Test Failed: Home page title is incorrect.");

                }

            } catch (Exception e) {

                System.out.println("❌ Test Failed: Exception occurred while checking page title - " + e.getMessage());

            }

            // Test Case 2: Verify Navigation Menu Visibility

            try {

                WebElement navMenu = driver.findElement(By.cssSelector(".navbar"));

                if (navMenu.isDisplayed()) {

                    System.out.println("✅ Test Passed: Navigation menu is visible.");

                } else {

                    System.out.println("❌ Test Failed: Navigation menu is NOT visible.");

                }

            } catch (Exception e) {

                System.out.println("❌ Test Failed: Exception occurred while checking navigation menu - " + e.getMessage());

            }

            // Test Case 3: Verify Content Section Visibility

            try {

                WebElement contentSection = driver.findElement(By.cssSelector(".content"));

                if (contentSection.isDisplayed()) {

                    System.out.println("✅ Test Passed: Content section is visible.");

                } else {

                    System.out.println("❌ Test Failed: Content section is NOT visible.");

                }

            } catch (Exception e) {

                System.out.println("❌ Test Failed: Exception occurred while checking content section - " + e.getMessage());

            }

            // Test Case 4: Verify Products Section Visibility

            try {

                WebElement productsSection = driver.findElement(By.id("newArrival"));

                if (productsSection.isDisplayed()) {

                    System.out.println("✅ Test Passed: Products section is visible.");

                } else {

                    System.out.println("❌ Test Failed: Products section is NOT visible.");

                }

            } catch (Exception e) {

                System.out.println("❌ Test Failed: Exception occurred while checking products section - " + e.getMessage());

            }

            // Test Case 5: Verify External Links

            try {

                List<WebElement> externalLinks = driver.findElements(By.cssSelector("a[target='\_blank']")); // Adjust selector as needed

                for (WebElement link : externalLinks) {

                    String originalWindow = driver.getWindowHandle();

                    String linkUrl = link.getAttribute("href");

                    // Click the link

                    link.click();

                    // Switch to the new tab

                    for (String windowHandle : driver.getWindowHandles()) {

                        if (!windowHandle.equals(originalWindow)) {

                            driver.switchTo().window(windowHandle);

                            break;

                        }

                    }

                    // Verify the URL of the new tab

                    if (driver.getCurrentUrl().equals(linkUrl)) {

                        System.out.println("✅ Test Passed: External link opened correctly in a new tab: " + linkUrl);

                    } else {

                        System.out.println("❌ Test Failed: External link did NOT open correctly. Expected: " + linkUrl + ", but got: " + driver.getCurrentUrl());

                    }

                    // Close the new tab and switch back to the original window

                    driver.close();

                    driver.switchTo().window(originalWindow);

                }

            } catch (Exception e) {

                System.out.println("❌ Test Failed: Exception occurred while checking external links - " + e.getMessage());

            }

            // Test Case 6: Verify Footer Visibility

            try {

                WebElement footer = driver.findElement(By.cssSelector("footer")); // Adjust selector as needed

                if (footer.isDisplayed()) {

                    System.out.println("✅ Test Passed: Footer is visible.");

                } else {

                    System.out.println("❌ Test Failed: Footer is NOT visible.");

                }

            } catch (Exception e) {

                System.out.println("❌ Test Failed: Exception occurred while checking footer visibility - " + e.getMessage());

            }

            // Test Case 7: Check for Console Errors

            try {

                JavascriptExecutor js = (JavascriptExecutor) driver;

                js.executeScript(

                    "var errors = [];" +

                    "var originalError = console.error;" +

                    "console.error = function(message) {" +

                    "   errors.push(message);" +

                    "   originalError.apply(console, arguments);" +

                    "};" +

                    "window.errors = errors;"

                );

                Thread.sleep(2000); // Wait for any potential errors to be logged

                List<?> consoleErrors = (List<?>) js.executeScript("return window.errors;");

                if (consoleErrors.isEmpty()) {

                    System.out.println("✅ Test Passed: No console errors found.");

                } else {

                    System.out.println("❌ Test Failed: Console errors found:");

                    for (Object error : consoleErrors) {

                        System.out.println("Error: " + error);

                    }

                }

            } catch (Exception e) {

                System.out.println("❌ Test Failed: Exception occurred while checking console errors - " + e.getMessage());

            }

        } catch (Exception e) {

            System.out.println("❌ Test Failed: Exception occurred - " + e.getMessage());

        } finally {

            // Close browser

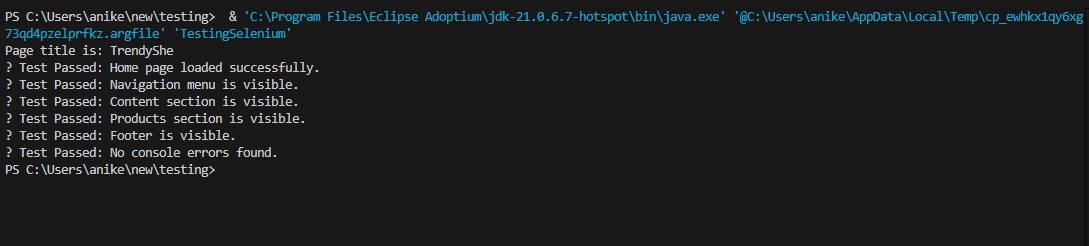
            driver.quit();

        }

    }

}

**Output:**

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**Code Of AdditionalTests.java:**

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.support.ui.ExpectedConditions;

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

import java.time.Duration;

public class AdditionalTests {

    public static void main(String[] args) {

        // Set the path to ChromeDriver

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

        // Initialize WebDriver

        WebDriver driver = new ChromeDriver();

        try {

            // Test Case 1: Verify Login Form Loads Correctly

            driver.get("http://localhost/github/DevOpsLab/website/login.php"); // Adjust URL as needed

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

            wait.until(ExpectedConditions.visibilityOfElementLocated(By.id("signIn"))); // Wait for the sign-in form to be visible

            // Check if the sign-in form is displayed

            WebElement signInForm = driver.findElement(By.id("signIn"));

            if (signInForm.isDisplayed()) {

                System.out.println("✅ Test Passed: Login form is displayed correctly.");

            } else {

                System.out.println("❌ Test Failed: Login form is NOT displayed.");

            }

        } catch (Exception e) {

            System.out.println("❌ Test Failed: Exception occurred - " + e.getMessage());

        } finally {

            // Close browser

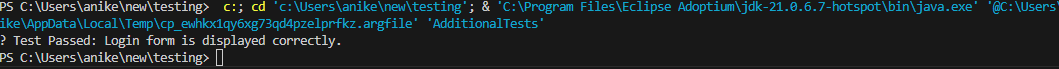
            driver.quit();

        }

    }

}

**Output:**

****

**Code of RegisterTest.java:**

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.support.ui.ExpectedConditions;

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

import java.time.Duration;

public class RegisterTest {

public static void main(String[] args) {

// Set the path to ChromeDriver

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

// Initialize WebDriver

WebDriver driver = new ChromeDriver();

try {

// Test Case: Verify Registration Form Loads Correctly

driver.get("http://localhost/github/DevOpsLab/website/regtry.php"); // Adjust URL as needed

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

wait.until(ExpectedConditions.visibilityOfElementLocated(By.id("signup"))); // Wait for the sign-up form to be visible

// Check if the sign-up form is displayed

WebElement signUpForm = driver.findElement(By.id("signup"));

if (signUpForm.isDisplayed()) {

System.out.println("✅ Test Passed: Registration form is displayed correctly.");

} else {

System.out.println("❌ Test Failed: Registration form is NOT displayed.");

}

} catch (Exception e) {

System.out.println("❌ Test Failed: Exception occurred - " + e.getMessage());

} finally {

// Close browser

driver.quit();

}

}

}

**OUTPUT:**

