**Selenium Method & Actions**

**Task Description:**

**1).To Automated Facebook Sign up Process using Selenium script.**

**Steps to be performed:**

1. Open the Chrome/Firefox/Safari browser.

2. Navigate to the Facebook website (https://www.facebook.com/).

3. Verify that the website has been redirected to the Facebook homepage.

4. Click on the "Create new account" button.

5. Enter the first name as "Test" and last name as "User" in the respective fields.

6. Enter a valid email address (for example, testuser@test.com) in the email field.

7. Enter a strong password in the password field.

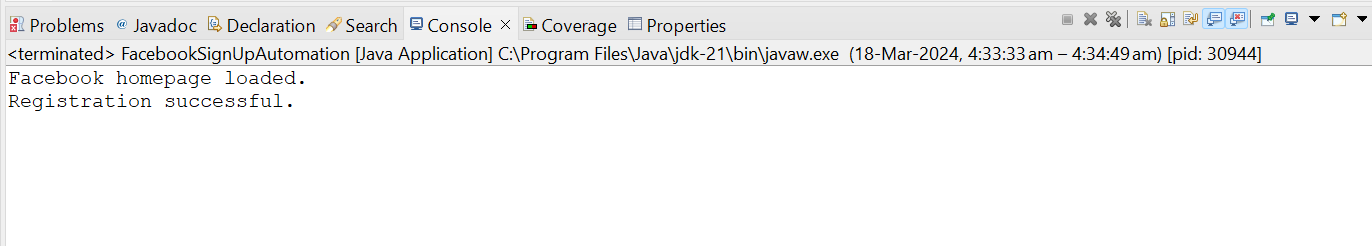
8. Select the date of birth as "11", month as "May", and year as "1985" using the drop-down menus.

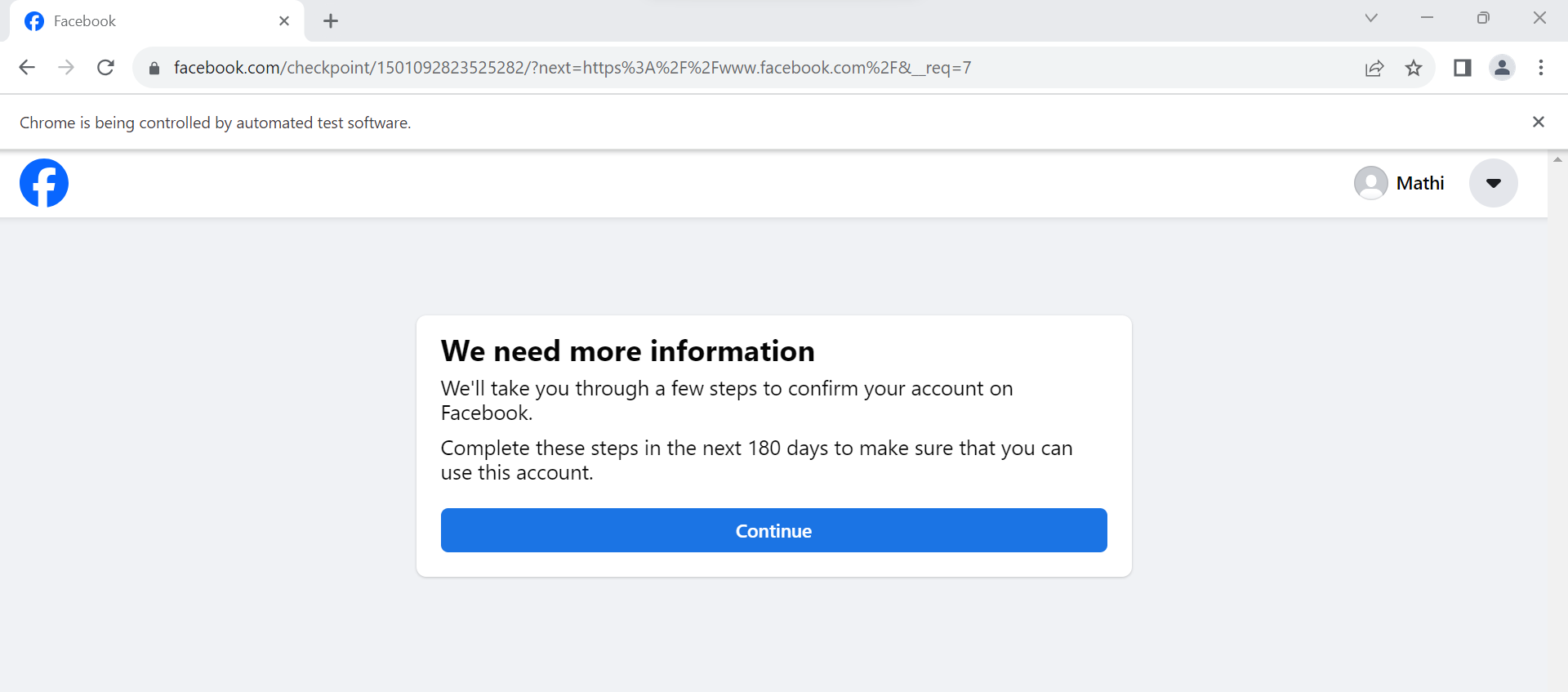
9. Select the gender as "Male"/ “Female” using the radio button.

10. Click on the "Sign Up" button.

11. Verify that the user is successfully registered on Facebook and redirected to the Facebook homepage.

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| **package** trainingtaskcompletion;  **import** java.time.Duration;  **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.Select;  //import org.openqa.selenium.support.ui.WebDriverWait;  **public** **class** FacebookSignUpAutomation {  **public** **static** **void** main(String[] args) **throws** InterruptedException {  // Set the path to your Chrome WebDriver executable  // System.setProperty("webdriver.chrome.driver", "/path/to/chromedriver");  // Initialize ChromeDriver  WebDriver driver = **new** ChromeDriver();  // Navigate to Facebook  driver.get("https://www.facebook.com/");  driver.manage().window().maximize();  driver.manage().timeouts().implicitlyWait(Duration.*ofSeconds*(10));  // Verify the homepage  **if** (!driver.getTitle().contains("Facebook")) {  System.***out***.println("Facebook homepage not loaded.");  **return**;  } **else** {  System.***out***.println("Facebook homepage loaded.");  }  // Click on "Create New Account" button  WebElement createAccountButton = driver  .findElement(By.*xpath*("//a[@data-testid='open-registration-form-button']"));  createAccountButton.click();  // Fill in sign-up form  WebElement firstNameInput = driver.findElement(By.*name*("firstname"));  firstNameInput.sendKeys("Mathi");  WebElement lastNameInput = driver.findElement(By.*name*("lastname"));  lastNameInput.sendKeys("Vithi");  WebElement emailInput = driver.findElement(By.*name*("reg\_email\_\_"));  emailInput.sendKeys("testuser11@test.com");  WebElement confirmEmailInput = driver.findElement(By.*name*("reg\_email\_confirmation\_\_"));  confirmEmailInput.sendKeys("testuser11@test.com");  WebElement passwordInput = driver.findElement(By.*name*("reg\_passwd\_\_"));  passwordInput.sendKeys("YourStrongPassword");  // Select date of birth  Select daySelect = **new** Select(driver.findElement(By.*name*("birthday\_day")));  daySelect.selectByVisibleText("11");  Select monthSelect = **new** Select(driver.findElement(By.*name*("birthday\_month")));  monthSelect.selectByVisibleText("May");  Select yearSelect = **new** Select(driver.findElement(By.*name*("birthday\_year")));  yearSelect.selectByVisibleText("1985");  // Select gender  WebElement genderRadio = driver.findElement(By.*xpath*("//input[@name='sex' and @value='2']"));  genderRadio.click(); // Change the value to '1' for Female  // Click on "Sign Up" button  WebElement signUpButton = driver.findElement(By.*name*("websubmit"));  signUpButton.click();  // Wait for sign-up process to complete  Thread.*sleep*(10000);  // WebDriverWait wait = new WebDriverWait(driver, 10);  // wait.until(ExpectedConditions.titleContains("Facebook"));  // Verify successful registration  **if** (!driver.getTitle().contains("Facebook")) {  System.***out***.println("Registration failed.");  } **else** {  System.***out***.println("Registration successful.");  }  // Close the browser  // driver.quit();  }  } |





**2).To Automated Drag and Drop Operation using Selenium Java.**

**Steps to be performed:**

1. Open the Chrome/Firefox/Safari browser.

2. Navigate to the jQueryUI droppable website (https://jqueryui.com/droppable/).

3. Find the source element with the text "Drag me to my target" and the target element with

the text "Drop here".

4. Perform the drag and drop operation from the source element to the target element.

5. Verify that the drag and drop operation is successful by checking the color property of the

target element's CSS.

6. Verify that the text of the target element has changed to "Dropped!" after the drop.

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| **package** trainingtaskcompletion;  **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.interactions.Actions;  **public** **class** DragAndDropTest {  **public** **static** **void** main(String[] args) **throws** InterruptedException {  // Initialize WebDriver (Choose browser)  WebDriver driver = **new** ChromeDriver(); // For Chrome  // WebDriver driver = new FirefoxDriver(); // For Firefox  // WebDriver driver = new SafariDriver(); // For Safari  // Open the jQueryUI droppable website  driver.get("https://jqueryui.com/droppable/");  driver.manage().window().maximize();  // Switch to the iframe where the droppable elements are located  // driver.switchTo().frame(driver.findElement(By.className("demo-frame")));  driver.switchTo().frame(driver.findElement(By.*cssSelector*("iframe.demo-frame")));  // Find the source and target elements  WebElement sourceElement = driver.findElement(By.*id*("draggable"));  Thread.*sleep*(1000);  WebElement targetElement = driver.findElement(By.*id*("droppable"));  // WebElement sourceElement =  // driver.findElement(By.xpath("//div[@id='draggable']"));  // WebElement targetElement =  // driver.findElement(By.xpath("//div[@id='droppable']"));  // Perform drag and drop operation  Actions actions = **new** Actions(driver);  actions.dragAndDrop(sourceElement, targetElement).build().perform();  // Verification 1: Check target element's color after drop  String targetColor = targetElement.getCssValue("background-color");  // System.out.println(targetColor);  **if** (targetColor.equals("rgba(255, 250, 144, 1)")) {  System.***out***.println("Drag and Drop successful (Color verification)");  } **else** {  System.***out***.println("Drag and Drop color verification failed!");  }  // Verification 2: Check target element's text after drop  String targetText = targetElement.getText();  **if** (targetText.equals("Dropped!")) {  System.***out***.println("Drag and Drop successful (Text verification)");  } **else** {  System.***out***.println("Drag and Drop text verification failed!");  }  driver.quit();  }  } |

