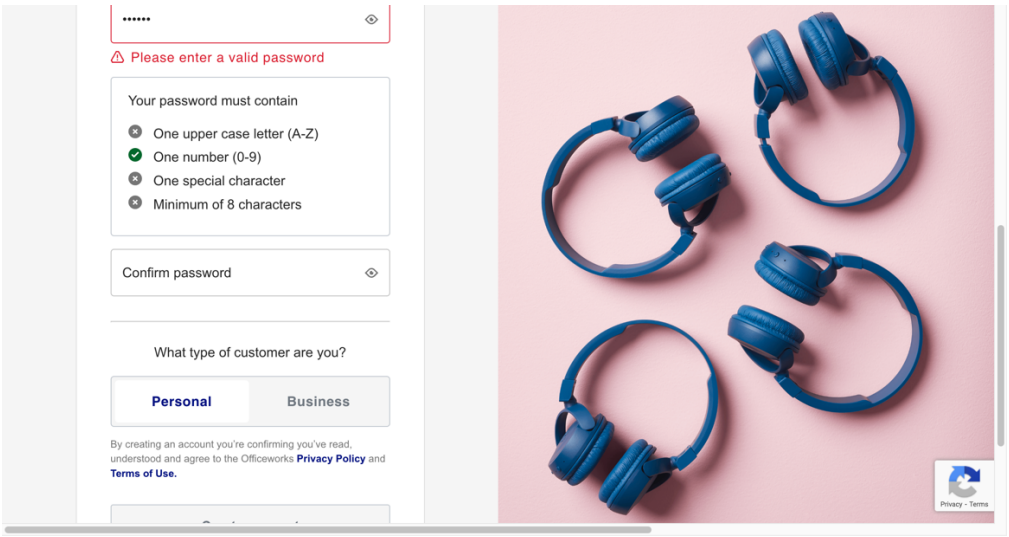
1.The screenshot taken of the officework's filled and submitted registration page

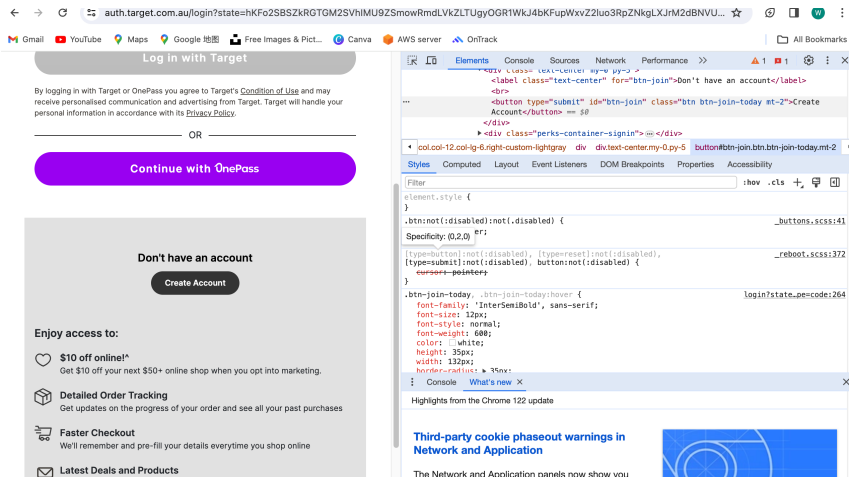


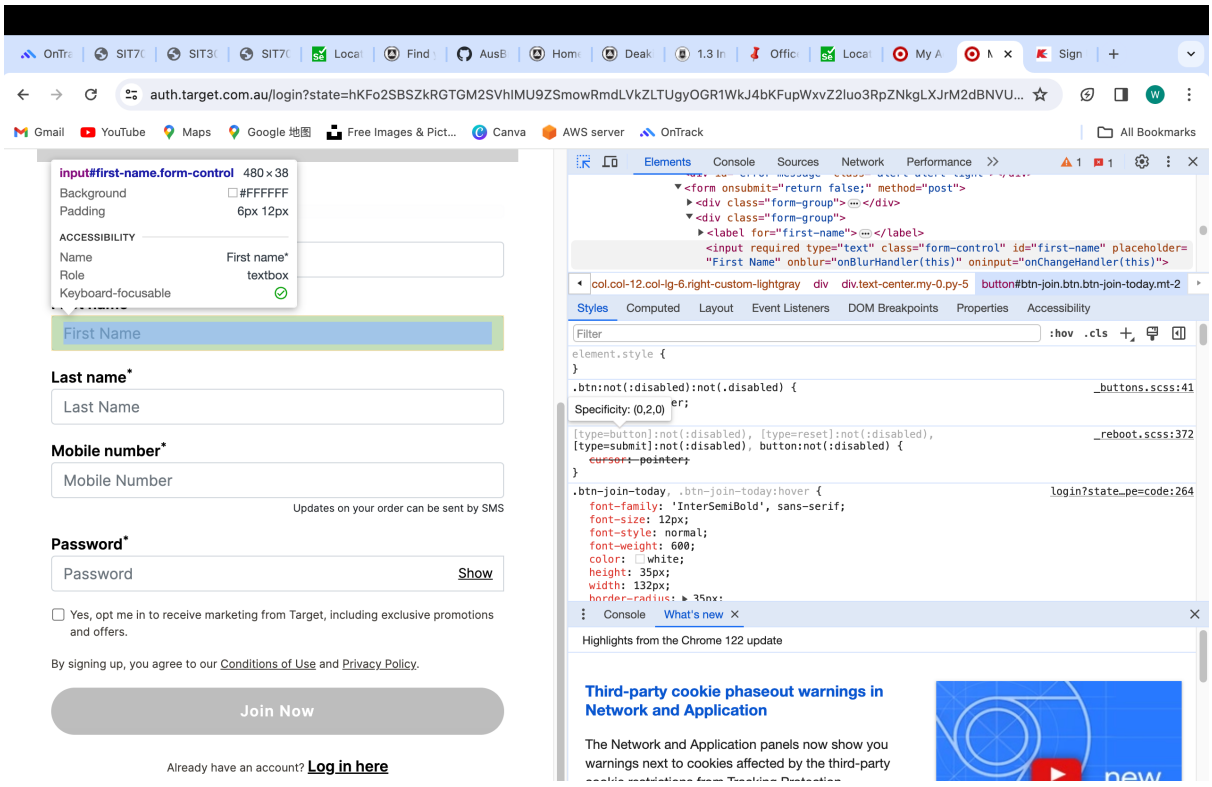
2.Repeat the above step for an alternative website's registration page.

I have tried two separate website which are target and kmart, and I found that these two website createAccount is not like officework's layout which is more straight forward, I need to write a clickButton function to direct to a new page to finalize my testing, but I've encounter some issues which requiring wait for some seconds to load in new page, and the rest of the code will throw an error shows couldn't find firstname by id

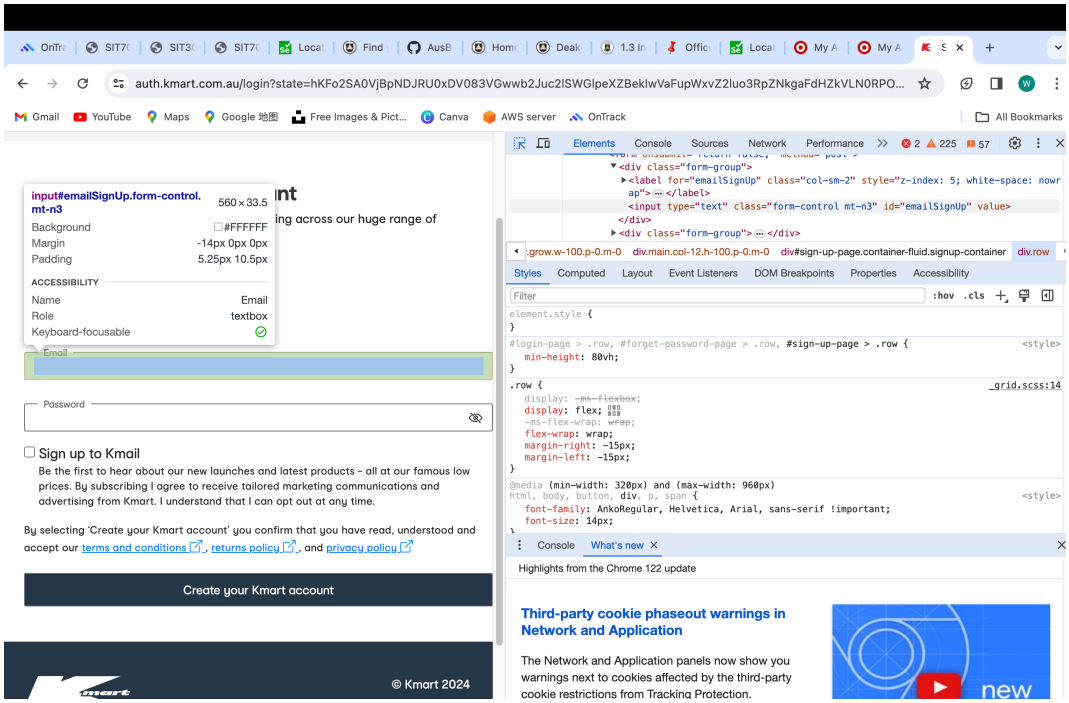
(just because the java is running the code step by step without waiting, probably I need to write some of asynchronous function to solve this issue)

1. This is the inspection of Target Website


auth.target.com.au/login?state=hKFo2SBSZkRGTGM2SVhIMU9ZSmowRmdLVkZLTUgyOGR1WkJ4bKFupWxvZ2luo3RpZNkgLXJrM2dBNVU...
Gmail
YouTube
Maps
Google 地图
Free Images & Pict...
Canva
AWS server
OnTrack
All Bookmarks
Log in with Target
By logging in with Target or OnePass you agree to Target's Condition of Use and may receive personalised communication and advertising from Target. Target will handle your personal information in accordance with its Privacy Policy.
OR
Continue with OnePass
Don't have an account
Create Account
Enjoy access to:
$10 off online!^
Get $10 off your next $50+ online shop when you opt into marketing.
Detailed Order Tracking
Get updates on the progress of your order and see all your past purchases
Faster Checkout
We'll remember and pre-fill your details everytime you shop online
Latest Deals and Products
Elements
Console
Sources
Network
Performance
Styles
Computed
Layout
Event Listeners
DOM Breakpoints
Properties
Accessibility
Highlights from the Chrome 122 update
Third-party cookie phaseout warnings in Network and Application
The Network and Application panels now show you


auth.target.com.au/login?state=hKFo2SBSZkRGTGM2SVhIMU9ZSmowRmdLVkZLTUgyOGR1WkJ4bKFupWxvZ2luo3RpZNkgLXJrM2dBNVU...
input#first-name.form-control 480 × 38
Background #FFFFFF
Padding 6px 12px
ACCESSIBILITY
Name First name*
Role textbox
Keyboard-focusable
First Name
Last name*
Last Name
Mobile number*
Mobile Number
Updates on your order can be sent by SMS
Password*
Password
Show
Yes, opt me in to receive marketing from Target, including exclusive promotions and offers.
By signing up, you agree to our Conditions of Use and Privacy Policy.
Join Now
Already have an account? Log in here
<form onsubmit="return false;" method="post">
<input required type="text" class="form-control" id="first-name" placeholder="First Name" onblur="onBlurHandler(this)" oninput="onChangeHandler(this)">
Specificity: (0,2,0)
Highlights from the Chrome 122 update
Third-party cookie phaseout warnings in Network and Application
The Network and Application panels now show you warnings next to cookies affected by the third-party

2.This is the inspection of Kmart website



2. Your program's source code (SeleniumOperations.java and the function you created for the alternative website).

1. Officework

```
2. package sit707_week2;
3.
4. import java.io.File;
5.
6. import org.apache.commons.io.FileUtils;
7. import org.openqa.selenium.By;
8. import org.openqa.selenium.OutputType;
9. import org.openqa.selenium.TakesScreenshot;
10.   import org.openqa.selenium.WebDriver;
11.   import org.openqa.selenium.WebElement;
12.   import org.openqa.selenium.chrome.ChromeDriver;
13.
14.   /**
15.    * This class demonstrates Selenium locator APIs to
   identify HTML elements.
16.    *
```

```
17.    * Details in Selenium documentation
   https://www.selenium.dev/documentation/webdriver/elemen
   ts/locators/
18.    *
19.    * @author yuheng wang
20.    */
21.   public class SeleniumOperations {
22.
23.        public static void sleep(int sec) {
24.             try {
25.                  Thread.sleep(sec*1000);
26.             } catch (InterruptedException e) {
27.                  // TODO Auto-generated catch block
28.                  e.printStackTrace();
29.             }
30.        }
31.
32.
33.        public static void
   officeworks_registration_page(String url) {
34.             // Step 1: Locate chrome driver folder in
   the local drive.
35.
      System.setProperty("webdriver.chrome.driver",
   "/Users/yuhengwang/Desktop/IT material/2024 T1/SIT707
   software testing/chromedriver-mac-x64/chromedriver");
36.
37.             // Step 2: Use above chrome driver to open
   up a chromium browser.
38.             System.out.println("Fire up chrome
   browser.");
39.             WebDriver driver = new ChromeDriver();
40.
41.             System.out.println("Driver info: " +
   driver);
42.
43.             sleep(2);
44.
45.             // Load a webpage in chromium browser.
46.             driver.get(url);
47.
48.             /*
49.              * How to identify a HTML input field -
50.              * Step 1: Inspect the webpage,
51.              * Step 2: locate the input field,
52.              * Step 3: Find out how to identify it, by
   id/name/...
53.              */
54.
```

```
55.             // Find first input field which is
   firstname
56.             WebElement element =
   driver.findElement(By.id("firstname"));
57.             System.out.println("Found element: " +
   element);
58.             // Send first name
59.             element.sendKeys("yuheng");
60.
61.             /*
62.              * Find following input fields and
   populate with values
63.              */
64.             // Write code
65.             // find last name
66.             WebElement element2 =
   driver.findElement(By.id("lastname"));
67.             System.out.println("Found element: " +
   element2);
68.             // Send last name
69.             element2.sendKeys("wang");
70.             //find phoneNumber
71.             WebElement element3 =
   driver.findElement(By.id("phoneNumber"));
72.             System.out.println("Found element: " +
   element3);
73.             // Send phoneNumber
74.             element3.sendKeys("0419292770");
75.             //find email
76.             WebElement element4 =
   driver.findElement(By.id("email"));
77.             System.out.println("Found element: " +
   element4);
78.             // Send email
79.
      element4.sendKeys("wangyuheng086@gmail.com");
80.             //find password
81.             WebElement element5 =
   driver.findElement(By.id("password"));
82.             System.out.println("Found element: " +
   element5);
83.             // Send password
84.             element5.sendKeys("123456");
85.             /*
86.              * Identify button 'Create account' and
   click to submit using Selenium API.
87.              */
88.             // Write code
```

```
            WebElement createAccountButton =
  driver.findElement(By.xpath("/html/body/div[2]/div/div[
  1]/div/div/form/div[12]/button"));
            createAccountButton.click();

            /*
             * Take screenshot using selenium API.
             */
            // Write code
             File screenshot =
  ((TakesScreenshot)driver).getScreenshotAs(OutputType.FI
  LE);
                try {
                    FileUtils.copyFile(screenshot, new
  File("/Users/yuhengwang/Desktop/IT material/2024
  T1/SIT707 software testing/task2_1P/screenShot.png"));
                } catch (Exception e) {
                    e.printStackTrace();
                }

            // Sleep a while
            sleep(2);

            // close chrome driver
            driver.close();
        }


}
```

Target

```
package sit707_week2;

import java.io.File;

import java.time.Duration;


import org.apache.commons.io.FileUtils;
import org.openqa.selenium.By;
import org.openqa.selenium.OutputType;
import org.openqa.selenium.TakesScreenshot;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import
  org.openqa.selenium.support.ui.ExpectedConditions;
```

```
128. import org.openqa.selenium.support.ui.WebDriverWait;
129.
130. public class testTargetWebsite {
131.     public static void sleep(int sec) {
132.         try {
133.             Thread.sleep(sec*1000);
134.         } catch (InterruptedException e) {
135.             // TODO Auto-generated catch block
136.             e.printStackTrace();
137.         }
138.     }
139.
140.
141.     public static void
  officeworks_registration_page(String url) {
142.         // Step 1: Locate chrome driver folder in
  the local drive.
143.
    System.setProperty("webdriver.chrome.driver",
  "/Users/yuhengwang/Desktop/IT material/2024 T1/SIT707
  software testing/chromedriver-mac-x64/chromedriver");
144.
145.         // Step 2: Use above chrome driver to open
  up a chromium browser.
146.         System.out.println("Fire up chrome
  browser.");
147.         WebDriver driver = new ChromeDriver();
148.
149.         System.out.println("Driver info: " +
  driver);
150.
151.         sleep(2);
152.
153.         // Load a webpage in chromium browser.
154.         driver.get(url);
155.
156.         WebDriverWait wait = new
  WebDriverWait(driver, Duration.ofSeconds(10));
157.         WebElement createAccountButton =
  wait.until(ExpectedConditions.elementToBeClickable(By.x
  path("//button[@id='createAccount']")));
158.         createAccountButton.click();
159.
160.         // More reliable element locator
161.         WebElement firstNameField =
  wait.until(ExpectedConditions.visibilityOfElementLocate
  d(By.name("firstName")));
162.         firstNameField.sendKeys("yuheng");
163.
```

```
164.
165.
166.             //Identify button 'Create account' and
  click to submit using Selenium API.
167.
168.             // Write code
169.  //         WebElement createAccountButton =
  driver.findElement(By.xpath("/html/body/div[2]/div/div[
  1]/div/div/form/div[12]/button"));
170.  //         createAccountButton.click();
171.
172.             /*
173.              * How to identify a HTML input field -
174.              * Step 1: Inspect the webpage,
175.              * Step 2: locate the input field,
176.              * Step 3: Find out how to identify it, by
  id/name/...
177.              */
178.
179.             // Find first input field which is
  firstname
180.             WebElement element =
  driver.findElement(By.id("first-name"));
181.             System.out.println("Found element: " +
  element);
182.             // Send first name
183.             element.sendKeys("yuheng");
184.
185.             /*
186.              * Find following input fields and
  populate with values
187.              */
188.             // Write code
189.             // find last name
190.             WebElement element2 =
  driver.findElement(By.id("last-name"));
191.             System.out.println("Found element: " +
  element2);
192.             // Send last name
193.             element2.sendKeys("wang");
194.             //find phoneNumber
195.             WebElement element3 =
  driver.findElement(By.id("mobile-number"));
196.             System.out.println("Found element: " +
  element3);
197.             // Send phoneNumber
198.             element3.sendKeys("0419292770");
199.             //find email
```

```
200.            WebElement element4 =
  driver.findElement(By.id("signup-email"));
201.            System.out.println("Found element: " +
  element4);
202.            // Send email
203.
     element4.sendKeys("wangyuheng086@gmail.com");
204.            //find password
205.            WebElement element5 =
  driver.findElement(By.id("signup-password"));
206.            System.out.println("Found element: " +
  element5);
207.            // Send password
208.            element5.sendKeys("123456");
209.            /*
210.             * Identify button 'Create account' and
  click to submit using Selenium API.
211.             */
212.            // Write code
213.  //         WebElement createAccountButton =
  driver.findElement(By.xpath("//*[@id=\"btn-
  signup\"]"));
214.  //         createAccountButton.click();
215.
216.            /*
217.             * Take screenshot using selenium API.
218.             */
219.            // Write code
220.             File screenshot =
  ((TakesScreenshot)driver).getScreenshotAs(OutputType.FI
  LE);
221.                try {
222.                    FileUtils.copyFile(screenshot, new
  File("/Users/yuhengwang/Desktop/IT material/2024
  T1/SIT707 software testing/task2_1P/screenShot.png"));
223.                } catch (Exception e) {
224.                    e.printStackTrace();
225.                }
226.
227.            // Sleep a while
228.            sleep(2);
229.
230.            // close chrome driver
231.            driver.close();
232.        }
233.
234.  }
```

3. Kmart

```
4. package sit707_week2;
5.
6. import java.io.File;
7.
8. import java.time.Duration;
9.
10.
11.     import org.apache.commons.io.FileUtils;
12.     import org.openqa.selenium.By;
13.     import org.openqa.selenium.OutputType;
14.     import org.openqa.selenium.TakesScreenshot;
15.     import org.openqa.selenium.WebDriver;
16.     import org.openqa.selenium.WebElement;
17.     import org.openqa.selenium.chrome.ChromeDriver;
18.     import
   org.openqa.selenium.support.ui.ExpectedConditions;
19.     import org.openqa.selenium.support.ui.WebDriverWait;
20.
21.     public class testKmart {
22.          public static void sleep(int sec) {
23.               try {
24.                    Thread.sleep(sec*1000);
25.               } catch (InterruptedException e) {
26.                    // TODO Auto-generated catch block
27.                    e.printStackTrace();
28.               }
29.          }
30.
31.
32.          public static void
   officeworks_registration_page(String url) {
33.               // Step 1: Locate chrome driver folder in
   the local drive.
34.
        System.setProperty("webdriver.chrome.driver",
   "/Users/yuhengwang/Desktop/IT material/2024 T1/SIT707
   software testing/chromedriver-mac-x64/chromedriver");
35.
36.               // Step 2: Use above chrome driver to open
   up a chromium browser.
37.               System.out.println("Fire up chrome
   browser.");
38.               WebDriver driver = new ChromeDriver();
39.
40.               System.out.println("Driver info: " +
   driver);
41.
```

```
42.                 sleep(2);
43.
44.                 // Load a webpage in chromium browser.
45.                 driver.get(url);
46.
47.
48.
49.
50.
51.                  //Identify button 'Create account' and
   click to submit using Selenium API.
52.
53.                 // Write code
54.     //          WebElement createAccountButton =
   driver.findElement(By.xpath("/html/body/div[2]/div/div[1]
   /div/div/form/div[12]/button"));
55.     //          createAccountButton.click();
56.
57.                 /*
58.                  * How to identify a HTML input field -
59.                  * Step 1: Inspect the webpage,
60.                  * Step 2: locate the input field,
61.                  * Step 3: Find out how to identify it, by
   id/name/...
62.                  */
63.
64.                 // Find first input field which is
   firstname
65.                 WebElement element =
   driver.findElement(By.id("first-name"));
66.                 System.out.println("Found element: " +
   element);
67.                 // Send first name
68.                 element.sendKeys("yuheng");
69.
70.                 /*
71.                  * Find following input fields and
   populate with values
72.                  */
73.                 // Write code
74.                 // find last name
75.                 WebElement element2 =
   driver.findElement(By.id("last-name"));
76.                 System.out.println("Found element: " +
   element2);
77.                 // Send last name
78.                 element2.sendKeys("wang");
79.
80.                 //find email
```

```
81.                 WebElement element4 =
    driver.findElement(By.id("signup-email"));
82.                 System.out.println("Found element: " +
    element4);
83.                 // Send email
84.
          element4.sendKeys("wangyuheng086@gmail.com");
85.                 //find password
86.
87.                 /*
88.                  * Identify button 'Create account' and
    click to submit using Selenium API.
89.                  */
90.                 // Write code
91.     //          WebElement createAccountButton =
    driver.findElement(By.xpath("//*[@id=\"btn-signup\"]"));
92.     //          createAccountButton.click();
93.
94.                 /*
95.                  * Take screenshot using selenium API.
96.                  */
97.                 // Write code
98.                  File screenshot =
    ((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE
    );
99.                     try {
100.                        FileUtils.copyFile(screenshot, new
    File("/Users/yuhengwang/Desktop/IT material/2024
    T1/SIT707 software testing/task2_1P/screenShot.png"));
101.                    } catch (Exception e) {
102.                        e.printStackTrace();
103.                    }
104.
105.                // Sleep a while
106.                sleep(2);
107.
108.                // close chrome driver
109.                driver.close();
110.            }
111.
112.    }
```