



Laporan Praktikum Pengujian dan Kualitas Perangkat Lunak Week 12a BDD - Automation Testing Using Cucumber		
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## Pengujian Aplikasi Tokopedia

- Fungsi contoh login cis

### a. Scenario

```
Feature: Test for CIS (cis.del.ac.id)
2
3 Scenario: Test Login with Valid Credentials
4   Given open chrome and start application
5   When I enter valid username and valid password
6   Then I can login successfully
```

### b. Step Definition

```
package stepDefinition;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.chrome.ChromeDriver;
6
7 import cucumber.api.PendingException;
8 import cucumber.api.java.en.Given;
9 import cucumber.api.java.en.When;
10 import cucumber.api.java.en.Then;
11
12 public class SmokeTest {
13     WebDriver driver;
14
15     @Given("open chrome and start application")
16     public void open_chrome_and_start_application() throws Throwable {
17         System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver-win32\\chromedriver.exe");
18         driver = new ChromeDriver();
19         driver.manage().window().maximize();
20         driver.get("https://cis.del.ac.id/user/login");
21     }
22
23     @When("I enter valid username and valid password")
24     public void I_enter_valid_username_and_valid_password() throws Throwable {
25         driver.findElement(By.id("loginform-username")).sendKeys("11322016");
26         driver.findElement(By.id("loginform-password")).sendKeys("123456");
27     }
28
29     @Then("I can login successfully")
30     public void I_can_login_successfully() throws Throwable {
31         driver.findElement(By.xpath("//div[@id='login-form']/div[3]/div/div/button")).click();
32     }
33 }
```

### c. Test Runner

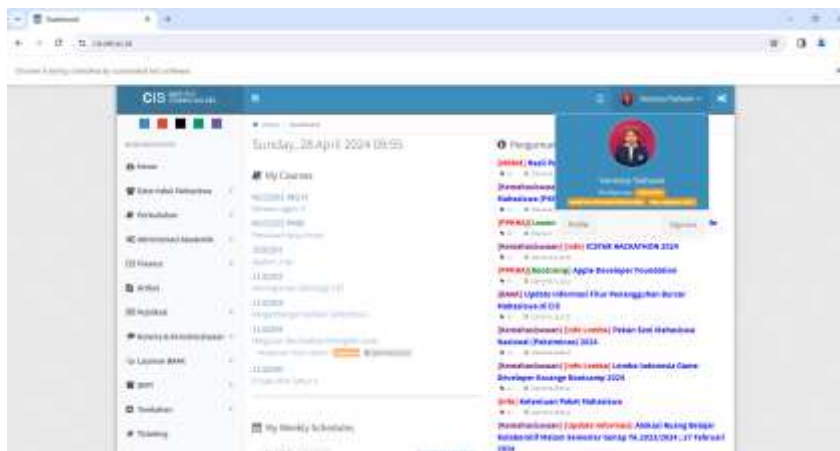


```
package-info... SmokeTest.java LoginTest.java MyApp.feature TestRunner.java x
1 package runner;
2
3 *import org.junit.runner.RunWith;
4
5 @RunWith(Cucumber.class)
6 @Cucumber.Options(features="Features/MyApp.feature", glue="stepDefinition")
7 public class TestRunner {
8
9 }
10
11
12
```

#### d. Console setelah Running

```
Console x
terminated> TestRunner (2) [JUnit] C:\Program Files\Java\jdk1.8.0_361\bin\javaw.exe (A
Starting ChromeDriver 125.0.6312.86 (9b72c47a55364d405376c52f07999ed62
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
ChromeDriver was started successfully.
171417361.579[WARNING]: This version of ChromeDriver has not been test
pr 28, 2024 9:51:01 AM org.openqa.selenium.remote.ProtocolHandshake:Ch
INFO: Detected dialect: W3C
```

#### e. Snippet Browser saat Testing



### 1. Fungsi Login Tokopedia

#### a. Scenario

```
1 Feature: Test Login on Tokopedia Website
2
3 Scenario: Test Login with Valid Credentials
4   Given I open Tokopedia website
5   When I enter valid email
6   Then I click the login button
7
8
```

#### b. Step Definition



```
1 package stepDefinition;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.chrome.ChromeDriver;
6
7 import cucumber.api.PendingException;
8 import cucumber.api.java.en.Given;
9 import cucumber.api.java.en.Then;
10 import cucumber.api.java.en.When;
11
12 public class LoginTest {
13     WebDriver driver;
14
15     @Given("I open Tokopedia website")
16     public void I_open_Tokopedia_website() throws Throwable {
17         System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver-win32\\chromedriver-win32\\chromedriver.exe");
18
19         driver = new ChromeDriver();
20         driver.manage().window().maximize();
21         driver.get("https://www.tokopedia.com/");
22     }
23
24     @When("I enter valid email")
25     public void I_enter_valid_email() throws Throwable {
26         driver.findElement(By.xpath("//div[contains(@class, 'white-header-sub')]//section/header/div[3]/div/div/div[2]/div/a[1]"))
27             .click();
28         driver.findElement(By.xpath("//div[contains(@id, 'LoginID')]//input")).sendKeys("vancessalshah4@gmail.com");
29     }
30
31     @Then("I click the login button")
32     public void I_click_the_login_button() throws Throwable {
33         driver.findElement(By.xpath("//div[contains(@id, 'submit_button')]//input")).click();
34     }
35 }
```

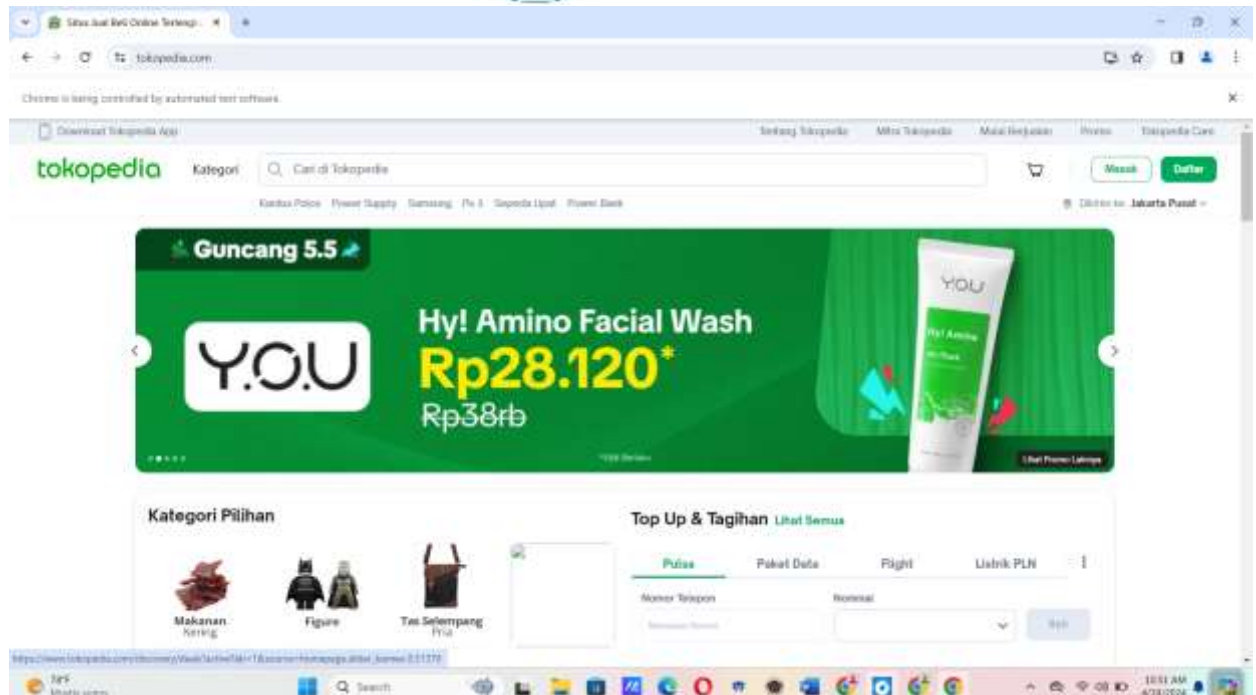
### c. Test Runner

```
1 package runner;
2
3 import org.junit.runner.RunWith;
4
5 import cucumber.api.junit.Cucumber;
6
7 @RunWith(Cucumber.class)
8 @Cucumber.Options(features="Features/MyLogin.feature", glue="stepDefinition")
9 public class TestRunner {
10
11 }
12
```

### d. Console setelah Running

```
<terminated> TestRunner (2) [JUnit] C:\Program Files\Java\jdk1.8.0_361\bin\javaw.exe (Apr 28, 2024, 10:47:59 AM - 10:49:11 AM)
Starting ChromeDriver 123.0.6312.86 (9b72c47a0536486405376c5cf07999ed626728da-refs/branch-heads/6312@#695) on port 38650
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
[1714276093.854] [WARNING]: This version of ChromeDriver has not been tested with Chrome version 124.
Apr 28, 2024 10:48:04 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
```

### e. Snippet Browser saat Testing



## 2. Fungsi Search

### a. Scenario

```

1 Feature: Test Search Box Clearing on Tokopedia Website
2
3 Scenario: Test Clearing Search Box
4   Given I am on the Tokopedia website for penghapusan pencarian
5   When I clear the search box
6   Then I should see the search box cleared
7

```

### b. Step Definition

```

1 package stepDefinition;
2
3 import org.openqa.selenium.By;
4
5 public class SearchTest {
6     WebDriver driver;
7
8     @Given("I am on the Tokopedia website for search")
9     public void i_am_on_the_tokopedia_website_for_search() throws Throwable {
10         System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver-win32\\chromedriver-win32.exe");
11         driver = new ChromeDriver();
12         driver.manage().window().maximize();
13         driver.get("http://www.tokopedia.com/");
14     }
15
16     @When("I search for a product")
17     public void i_search_for_a_product() throws Throwable {
18         driver.findElement(By.xpath("//div[@id='v-cmnsearch_input/*']"))
19             .sendKeys("skincare");
20         driver.findElement(By.xpath("//div[@id='v-cmnsearch']//button"))
21             .click();
22     }
23 }
24

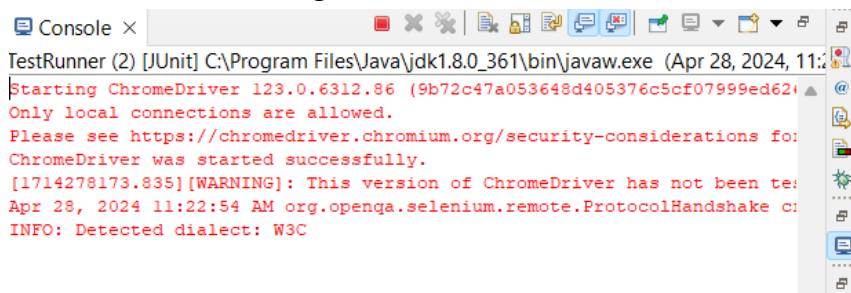
```

### c. Test Runner

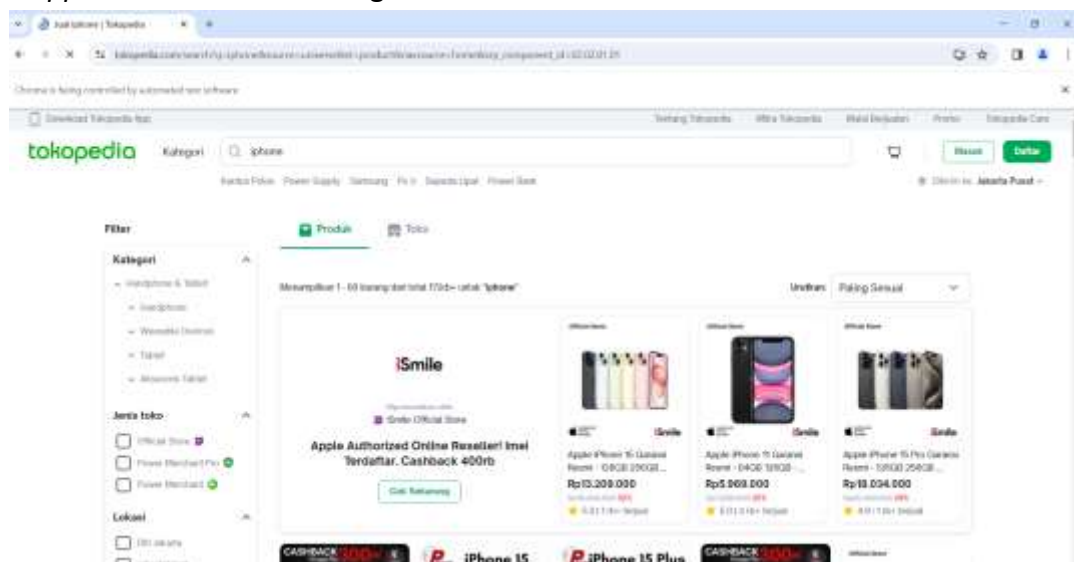


```
1 package runner:
2
3 import org.junit.runner.RunWith:
4
5
6 @RunWith(Cucumber.class)
7 @Cucumber.Options(features="Features/MySearch.feature", glue="stepDefinition")
8 public class TestRunner {
9
10 }
11
12
```

#### d. Console setelah Running



#### e. Snippet Browser saat Testing



### 3. Fungsi Kategori

#### a. Scenario

```
1 Feature: Test Kategori on Tokopedia Website
2
3 Scenario: Test Selecting a Category
4   Given I am on the Tokopedia website for kategori
5   When I select a category
6   Then I see the category page
```

#### b. Step Definition





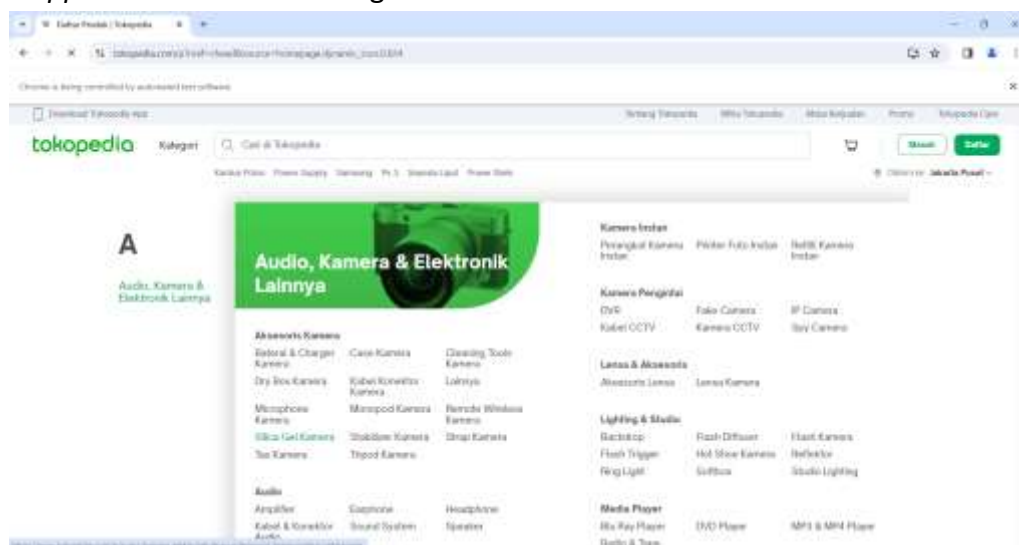
### c. Test Runner



d. *Console* setelah Running



e. *Snippet* Browser saat Testing



#### 4. Fungsi Penghapusan pencarian



## a. Scenario

```
1 Feature: Test Search Box Clearing on Tokopedia Website
2
3 Scenario: Test Clearing Search Box
4     Given I am on the Tokopedia website for penghapusan pencarian
5     When I clear the search box
6     Then I should see the search box cleared
7
```

## b. Step Definition

```
1 package stepDefinition;
2
3 import org.openqa.selenium.By;
4
5 public class hapusSearchTest {
6     WebDriver driver;
7
8     @When("I am on the tokped website for penghapusan pencarian")
9     public void i_am_on_the_tokped_website_for_penghapusan_pencarian() throws Throwable {
10         System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver-win32\\chromedriver.exe");
11         driver = new ChromeDriver();
12         driver.manage().window().maximize();
13         driver.get("https://www.tokopedia.com/");
14     }
15
16     @When("I clear the search box")
17     public void i_clear_the_search_box() throws Throwable {
18         driver.findElement(By.xpath("//div[contains(@class, 'search__input')]").click();
19         driver.findElement(By.xpath("//div[contains(@class, 'search__input')/div/div/div[1]/div[1]/span").click();
20     }
21
22     @Then("I should see the search box cleared")
23     public void i_should_see_the_search_box_cleared() throws Throwable {
24         String searchBoxText = driver.findElement(By.xpath("//div[contains(@class, 'search__input')]").getAttribute("value");
25         assertEquals(searchBoxText, "");
26     }
27 }
28
```

## c. Test Runner

```
1 package runner;
2
3 import org.junit.runner.RunWith;
4
5 import cucumber.api.junit.Cucumber;
6
7 @RunWith(Cucumber.class)
8 @Cucumber.Options(features="Features/MyClear.feature", glue="stepDefinition")
9 public class TestRunner {
10 }
11
12
```

## d. Console setelah Running

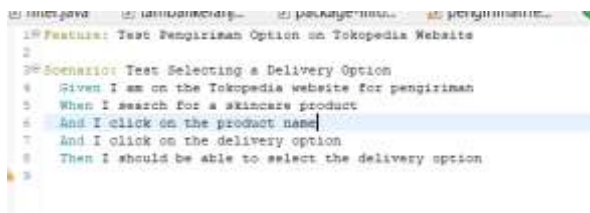
```
Console x
-terminated> TestRunner (2) [JUnit] C:\Program Files\Java\jdk1.8.0_361\bin\javaw.exe (Ac
Starting ChromeDriver 128.0.6613.84 (9c72047e326563f3405776585c2079999e2)
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
ChromeDriver was started successfully.
[1714077264.770] [WARNING]: This version of ChromeDriver has not been te
Apr 20, 2024 11:07:32 AM org.openqa.selenium.remote.ProtocolHandshake:
INFO: Detected dialect: W3C
java.lang.NullPointerException
at stepDefinition.hapusSearchTest.i_clear_the_search_box(hapus3
at *.When I clear the search box(Features/MyClear.feature:5)
```

## f. Snippet Browser saat Testing

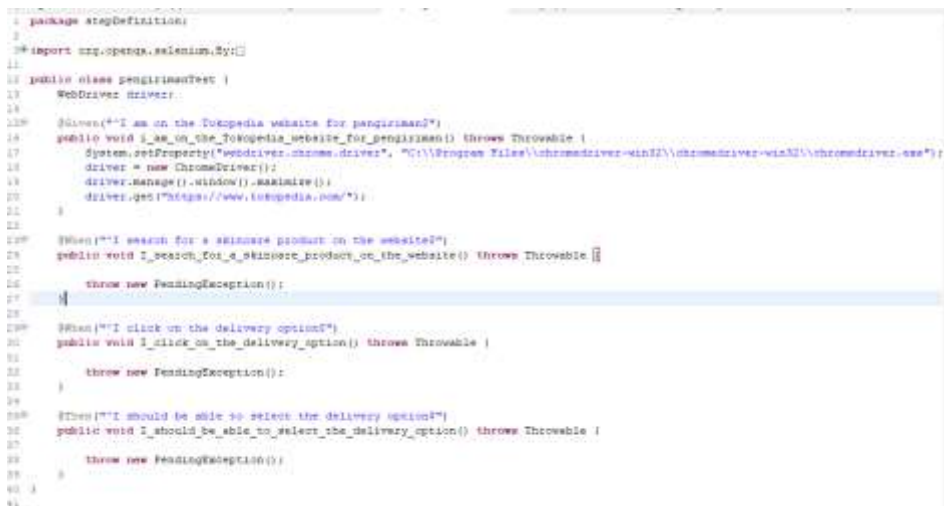


## 5. Fungsi Pengiriman

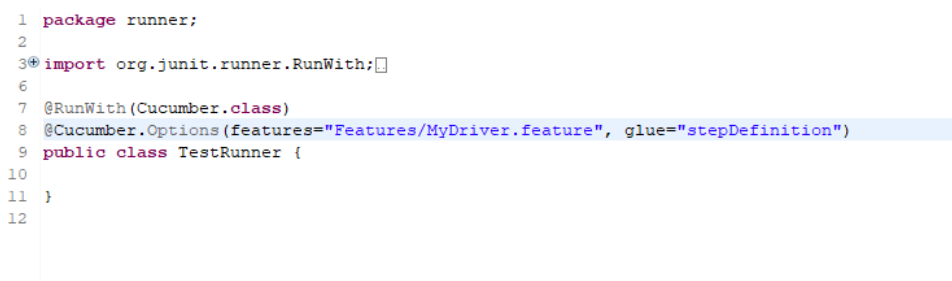
### a. Scenario



### b. Step Definition

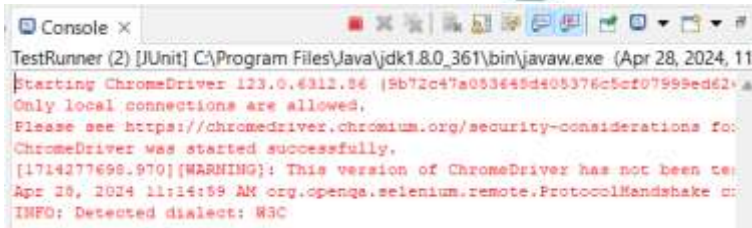


### c. Test Runner



### d. Console setelah Running



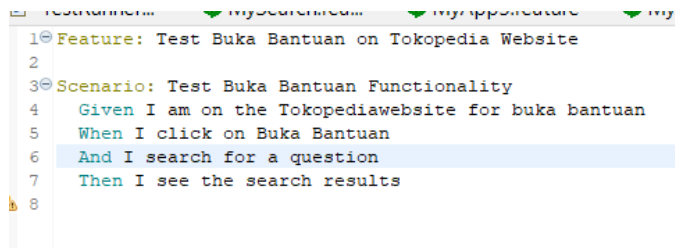


#### e. Snippet Browser saat Testing



### 6. Fungsi Bantuan

#### a. Scenario



#### b. Step Definition



#### c. Test Runner



```

1 package runner;
2
3 import org.junit.runner.RunWith;
4
5 @RunWith(Cucumber.class)
6 @Cucumber.Options(features="Features/MyHelp.feature", glue="stepDefinition")
7 public class TestRunner {
8
9 }
10
11

```

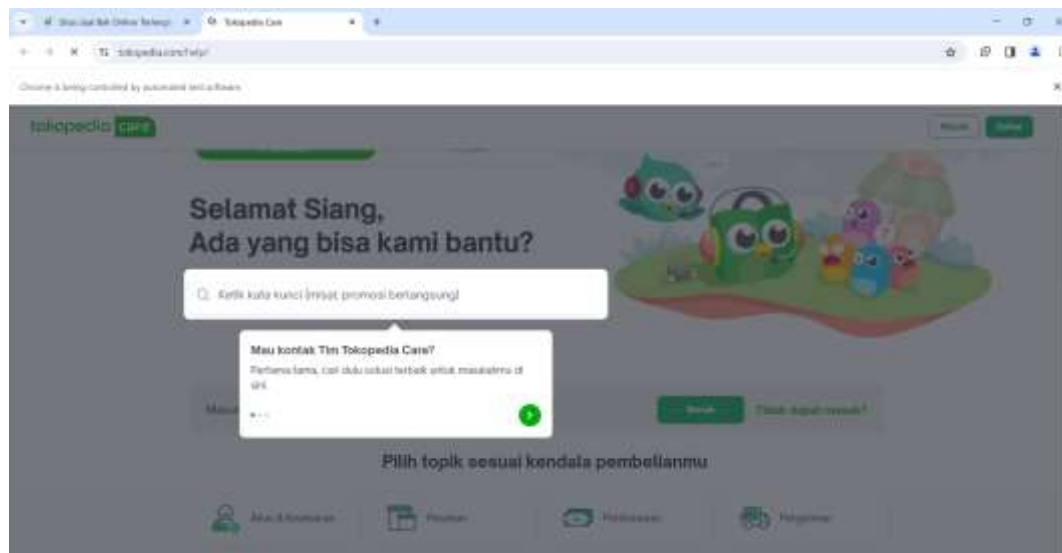
#### d. Console setelah Running

```

Console x
TestRunner (2) [JUnit] C:\Program Files\Java\jdk1.8.0_361\bin\javaw.exe (Apr 28, 2024, 11:
Starting ChromeDriver 123.0.6312.56 (9b72c47a053445d405376c5cf07999ed62)
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
ChromeDriver was started successfully.
[1714277698.970][WARNING]: This version of ChromeDriver has not been te
Apr 28, 2024 11:14:59 AM org.openqa.selenium.remote.ProtocolHandshake o
INFO: Detected dialect: W3C

```

#### e. Snippet Browser saat Testing



### 7. Fungsi Menu

#### a. Scenario

```

MyApp.feature | TestRunner.java | MyHelp.feature | bukabantuan?... | HelpTest.java | MyApp.feature | *MyMenu.feature x
Scenario: Semua Menu Functionality on Tokopedia website
1 Given I am on the Tokopedia website for semua menu
2 When I click on the semua menu icon
3 And I click on the semua prabayar icon
4 Then I should be redirected to the semua prabayar page

```

#### b. Step Definition



```
1 package stepdefinition;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.chrome.ChromeDriver;
6
7 import cucumber.api.java.en.Given;
8 import cucumber.api.java.en.Then;
9 import cucumber.api.java.en.When;
10
11 public class StepTest {
12     WebDriver driver;
13
14     @Given("I am on the Tokopedia website for some tests")
15     public void i_am_on_the_tokopedia_website_for_some_tests() throws Throwable {
16         System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver-win32\\chromedriver.exe");
17         driver = new ChromeDriver();
18         driver.manage().window().maximize();
19         driver.get("http://www.tokopedia.com");
20     }
21
22     @When("I click on the some menu icon")
23     public void i_click_on_the_some_menu_icon() throws Throwable {
24         driver.findElement(By.xpath("//div[contains(@class, 'page-header-app')]//div[1]/div/div/div/div/div[5]/div/div[1]/div[1]").click();
25     }
26
27     @Then("I click on the pulse product icon")
28     public void i_click_on_the_pulse_product_icon() throws Throwable {
29         driver.findElement(By.xpath("//div[contains(@class, 'page-header-app')]//div[1]/div/div/div/div[1]/div[1]/div[1]/div[2]/div[1]").click();
30     }
31
32     @Then("I should be redirected to the pulse product page")
33     public void i_should_be_redirected_to_the_pulse_product_page() throws Throwable {
34         // Use WebDriverWait to wait for the page to load
35         WebDriverWait wait = new WebDriverWait(driver, 10);
36         boolean redirectedToPulseProductPage = driver.getCurrentUrl().contains("pulse-product");
37         if (redirectedToPulseProductPage) {
38             System.out.println("Successfully redirected to the pulse product page.");
39         } else {
40             System.out.println("Failed to redirect to the pulse product page.");
41         }
42     }
43 }
44
45 }
```

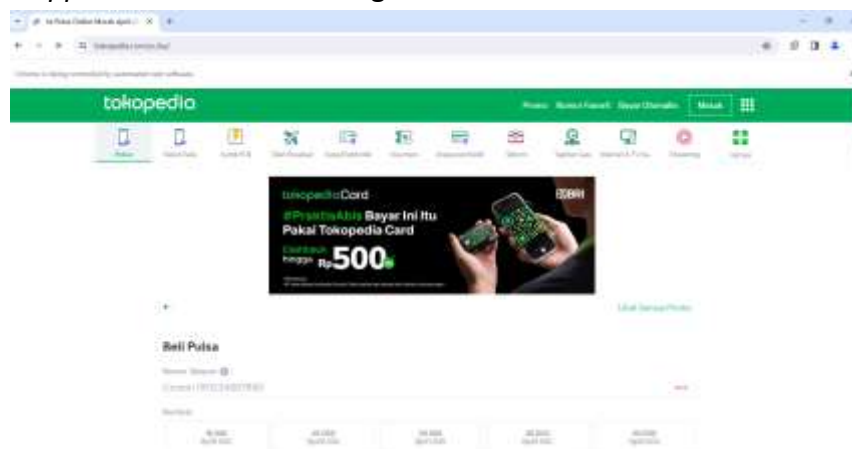
### c. Test Runner

```
1 package runner;
2
3 import org.junit.runner.RunWith;
4
5 @RunWith(Cucumber.class)
6 @Cucumber.Options(features="Features/MyNewFeature", glue="stepDefinition")
7 public class TestRunner {
8
9 }
10
11 }
```

### d. Console setelah Running

```
cmd (C:\Program Files\Java\jdk-11.0.3\bin\java.exe) (Apr 28, 2024, 11:40:21 AM)
Starting ChromeDriver 129.0.6613.86 (4b7247641594888869445c8cf79448447384a-pulse/ChromeDriver/6113817488) on port 18073
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
[14:27:22.133] [WARNING]: This version of ChromeDriver has not been tested with Chrome version 129.
Apr 28, 2024 11:40:27 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
```

### e. Snippet Browser saat Testing



## 8. Fungsi Promo

### a. Scenario



```
1 Feature: Test Promo on Tokopedia Website
2
3 Scenario: Test Selecting a promo
4   Given I am on the Tokopedia website for promo
5   When I select a promo
6   Then I see the promo page
```

## b. Step Definition

```
1 package stepDefinition;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.WebElement;
6 import org.openqa.selenium.chrome.ChromeDriver;
7
8 import cucumber.api.java.en.Then;
9 import cucumber.api.java.en.When;
10
11 import org.junit.Assert;
12
13 public class promotest {
14     private WebDriver driver;
15
16     public void setUp() {
17         System.setProperty("webdriver.chrome.driver", "path_to_chromedriver.exe");
18         driver = new ChromeDriver();
19         driver.get("https://www.tokopedia.com/");
20     }
21
22     public void tearDown() {
23         driver.quit();
24     }
25
26     @When("^I select a promo$")
27     public void i_select_a_promo() throws Throwable {
28         // Memilih promo, misalnya dengan mengklik elemen promo
29         WebElement promoElement = driver.findElement(By.xpath("xpath_promo_element"));
30         promoElement.click();
31     }
32
33     @Then("^I see the promo page$")
34     public void i_see_the_promo_page() throws Throwable {
35         // Memverifikasi bahwa halaman promo muncul
36         WebElement promoPageElement = driver.findElement(By.xpath("xpath_promo_page"));
37         Assert.assertTrue(promoPageElement.isDisplayed());
38     }
39 }
40
```

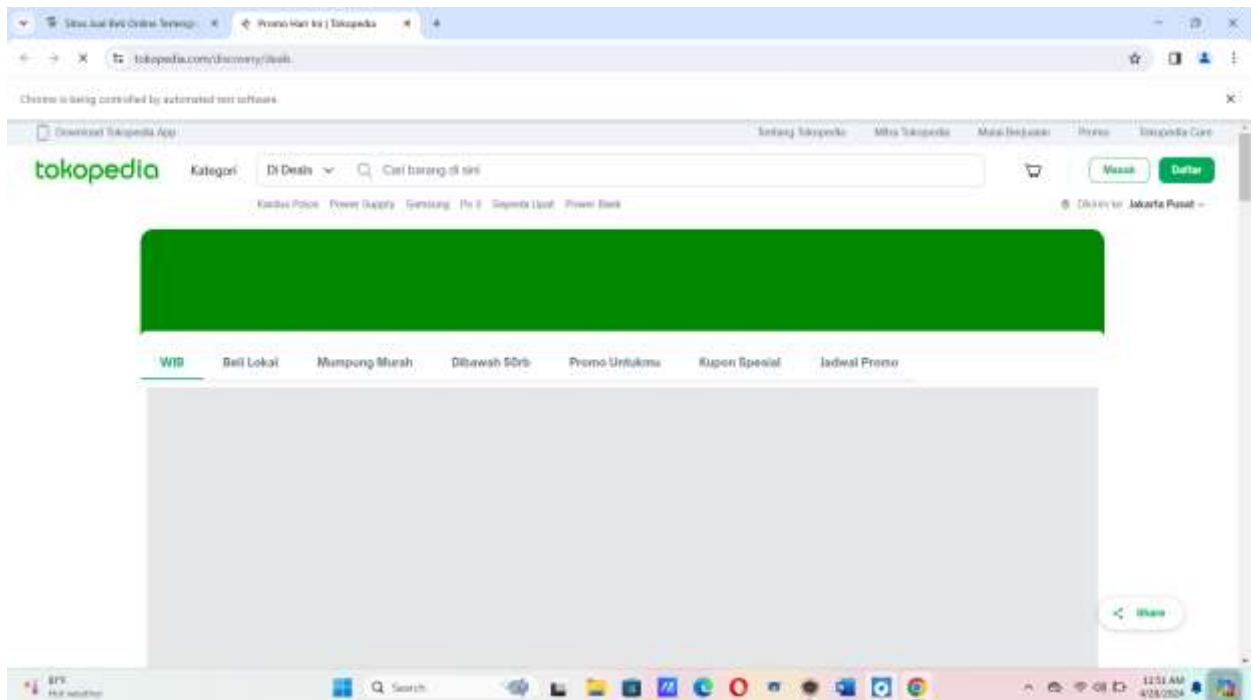
## c. Test Runner

```
1 package runner;
2
3 import org.junit.runner.RunWith;
4
5
6
7 @RunWith(Cucumber.class)
8 @Cucumber.Options(features="Features/MyPromo.feature", glue="stepDefinition")
9 public class TestRunner {
10
11 }
12
```

## d. Console setelah Running

```
Console
TestRunner (2) [JUnit] C:\Program Files\Java\jdk1.8.0_361\bin\java.exe (Apr 28, 2024, 11:40:21 AM)
Starting ChromeDriver 123.0.6312.58 (9b7204794c86406421427c54738da-refs/branch-heads/631281#99) on port 18072.
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
[714279227-133][WARNING]: This version of ChromeDriver has not been tested with Chrome version 124.
Apr 28, 2024 11:40:27 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
```

## e. Snippet Browser saat Testing



## 9. Fungsi Tentang TokoPedia

### a. Scenario

```

1
2 Scenario: Testing Category Selection on Tokopedia Website
3
4 Given I am on the Tokopedia website Tentang tokopedia page
5 When I select a Tokopedia from the navbar menu
6 Then I am directed to the selected Tentang tokopedia page

```

### b. Step Definition

```

1 package stepDefinition;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.chrome.ChromeDriver;
6
7 import cucumber.api.PendingException;
8 import cucumber.api.java.en.Given;
9 import cucumber.api.java.en.When;
10 import cucumber.api.java.en.Then;
11
12 public class AboutTest {
13     WebDriver driver;
14
15     @Given("I am on the Tokopedia website for Tentang tokopedia")
16     public void i_am_on_the_tokopedia_website_for_tentang_tokopedia() throws Throwable {
17         System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver-win32\\chromedriver-win32\\chromedriver.exe");
18         driver = new ChromeDriver();
19         driver.manage().window().maximize();
20         driver.get("https://www.tokopedia.com/");
21     }
22
23     @When("I select a category")
24     public void i_select_a_category() throws Throwable {
25         // Add your test steps here
26     }
27
28     @Then("I see the category page")
29     public void i_see_the_category_page() throws Throwable {
30         // Add your test steps here
31     }
32 }
33

```





### c. Test Runner

```
*TestRunner... x MyApp3.feature MyApp4.feature MyApp6.feature MyApp5.feature
1 package runner;
2
3 import org.junit.runner.RunWith;
4
5
6
7 @RunWith(Cucumber.class)
8 @Cucumber.Options(features="Features/MyAbout|feature", glue="stepDefinition")
9 public class TestRunner {
10
11 }
12
```

### d. Console setelah Running

### e. Snippet Browser saat Testing



## 10. Fungsi Filter

### a. Scenario

```
1 Feature: Test Filter on Tokopedia Website
2
3 Scenario: Test Filter for Skincare Products
4     Given I am on the Tokopedia website for filter
5     When I search for skincare products
6     Then I apply the filter for product type
7     And I see the filtered results
8
9
10
```

### b. Step Definition

```
TestRunner (2) [JUnit] C:\Program Files\Java\jdk1.8.0_361\bin\javaw.exe (Apr 28, 2024, 12:07 PM)
Starting ChromeDriver 123.0.6312.86 (9b72c47a053648d406376c6cf07999ed62)
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
ChromeDriver was started successfully.
[1714289822.822] [WARNING]: This version of ChromeDriver has not been tested on
Apr 28, 2024 12:07:03 PM org.openqa.selenium.remote.ProtocolHandshake:
INFO: Detected dialect: W3C
```



```
1 package stepDefinitions;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.chrome.ChromeDriver;
6
7 import cucumber.api.PendingException;
8 import cucumber.api.java.Before;
9 import cucumber.api.java.en.Given;
10 import cucumber.api.java.en.Then;
11 import cucumber.api.java.en.When;
12
13 public class FilterTest {
14     WebDriver driver;
15
16     @Before
17     public void setUp() {
18         System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\chromedriver-win32\\chromedriver-win32\\chromedriver.exe");
19         driver = new ChromeDriver();
20     }
21
22     @Given("I am on the tokopedia website for filter")
23     public void i_am_on_the_tokopedia_website_for_filter() throws Throwable {
24         driver.manage().window().maximize();
25         driver.get("https://www.tokopedia.com/");
26     }
27
28     @When("I search for skincare products")
29     public void i_search_for_skincare_products() throws Throwable {
30         driver.findElement(By.xpath("//div[@v-cmssearch_input/*]"))
31             .sendKeys("skincare");
32         driver.findElement(By.xpath("//div[@v-cmssearch/*]/button"))
33             .click();
34     }
35
36     @Then("I apply the filter for product type")
37     public void i_apply_the_filter_for_product_type() throws Throwable {
38         driver.findElement(By.xpath("//div[@product-explorer-container/*]/div/div[1]/div/div[2]/div[1]/div/div[1]/input"))
39             .click();
40     }
41 }
```

### c. Test Runner

```
1 package runner;
2
3 import org.junit.runner.RunWith;
4
5
6 @RunWith(Cucumber.class)
7 @Cucumber.Options(features="Features/MyFilter.feature", glue="stepDefinition")
8 public class TestRunner {
9
10
11 }
12
```

### d. Console setelah Running

```
TestRunner (2) [JUnit] C:\Program Files\Java\jdk1.8.0_361\bin\javaw.exe (Apr 28, 2024, 12:11 PM)
Starting ChromeDriver 123.0.6312.86 (9b72c47a053648d409376c5cf07999ed62)
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
ChromeDriver was started successfully.
[1714280822.822] [WARNING]: This version of ChromeDriver has not been tested
Apr 28, 2024 12:07:03 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
```

### e. Snippet Browser saat Testing

