

# IT 303 – Software Verification, Validation and Testing

## TESTING DOCUMENTATION

E-COMMERCE STORE BERSHKA

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## 1. Introduction

### 1.1. About the Project

**Bershka** is a Spanish clothing retailer and a fast-fashion brand. As of 2022, Bershka has over 852 stores in 74 countries and according to Inditex (2024), the estimated net sales generated in 2023 is 2,6 billion euros.

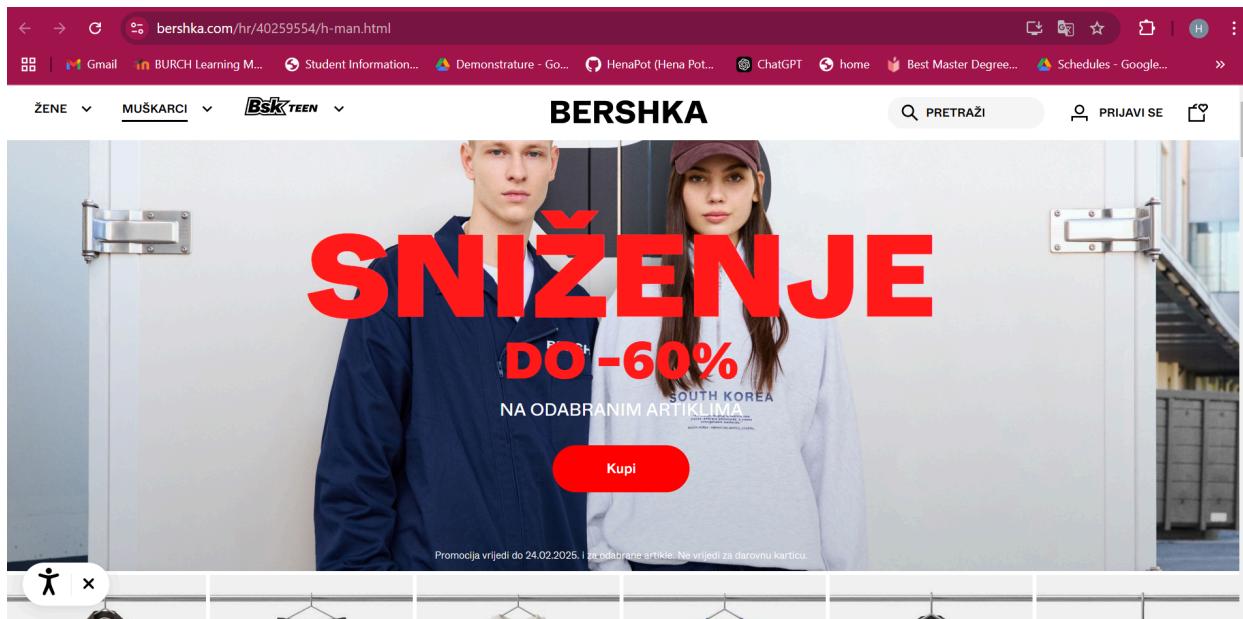
The world's increasing digitalization opened doors to new markets and profits via opening e-commerce stores, and considering the numbers mentioned above, making sure that Bershka's e-commerce platform runs smoothly and is up to par with the best IT practices underscores the importance of testing in the context of the real world's clients and customers.

Homepage Link: <https://www.bershka.com/hr/h-man.html>

### 1.2. Project Functionalities and Screenshots

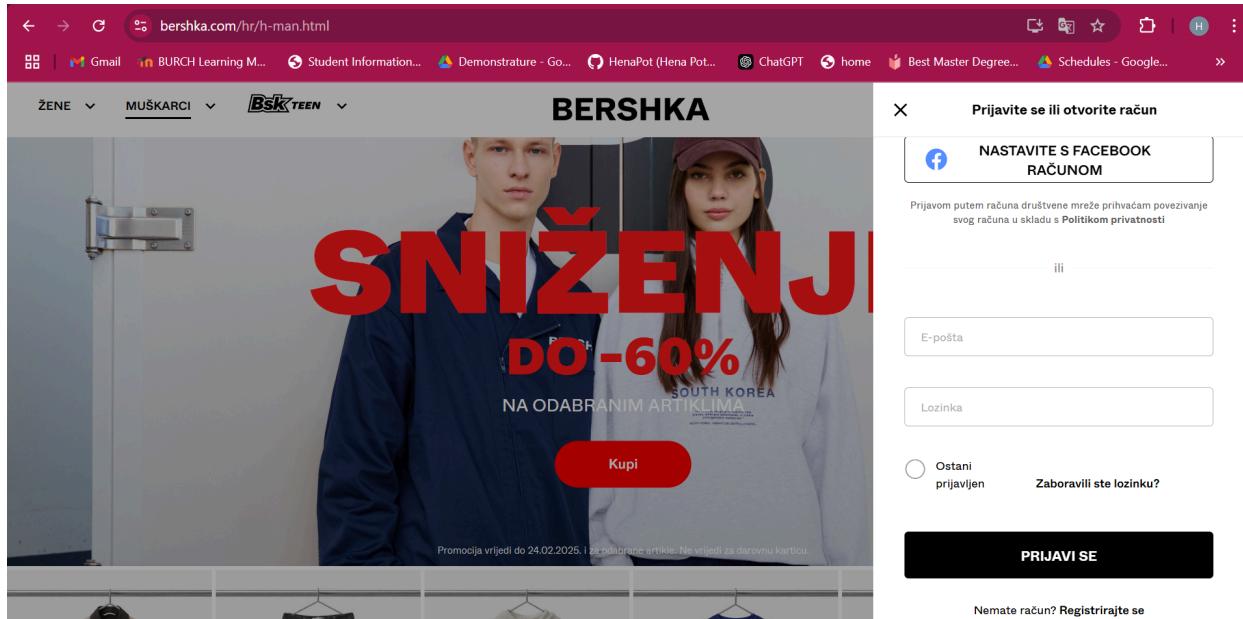
#### 1.2.1. Bershka Homepage

The very landing page from which a user can log in or register, search fashion items, browse fashion items and sections, view discounts, etc.



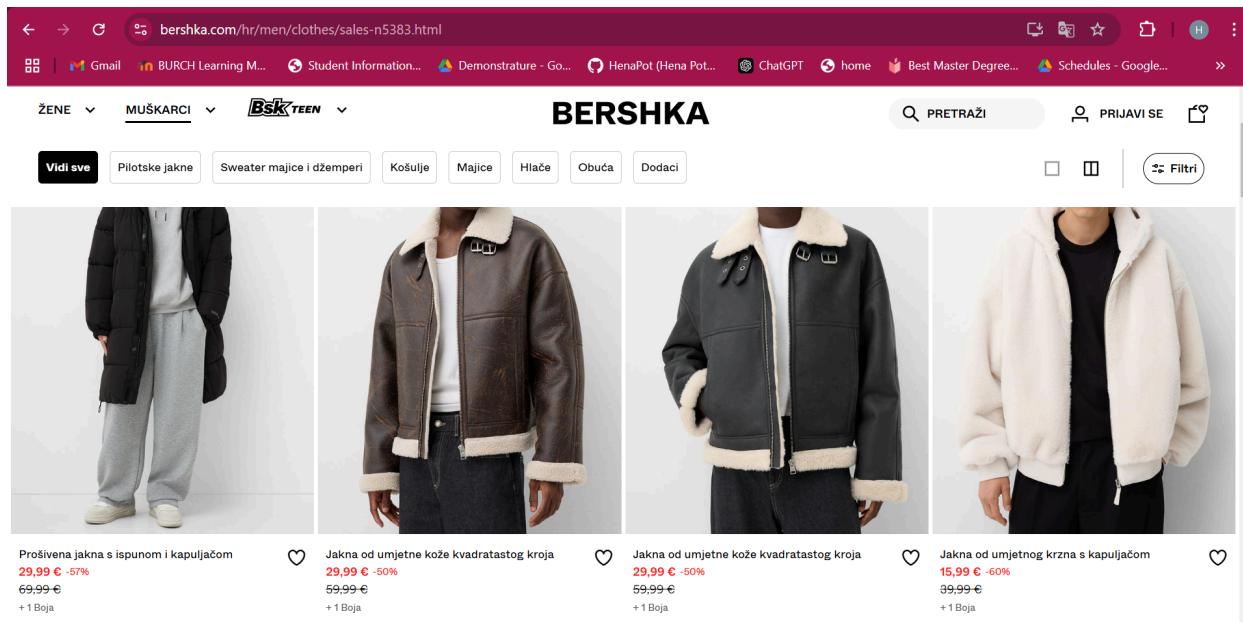
#### 1.2.2. User Authentication

The backbone of securing user's data and ensuring protected access.



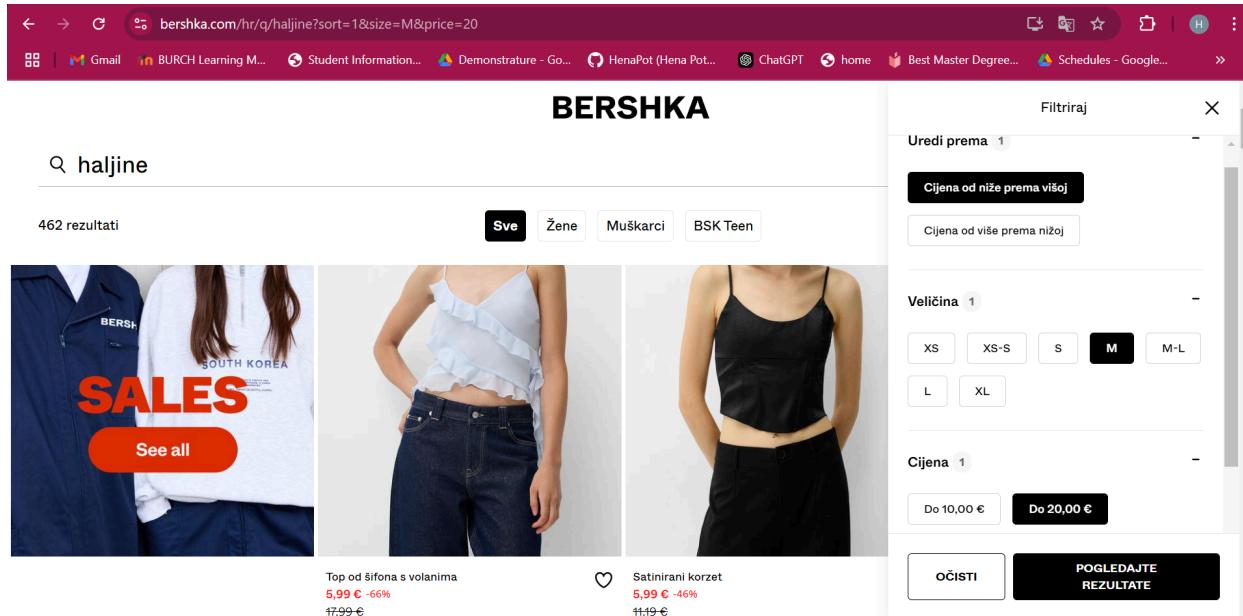
### 1.2.3. Overview of a Fashion Items Section

Example of browsing the men's fashion section and seeing items with their respective price, discount, available color, etc.



#### 1.2.4. Search with Filters

In today's day and age, searching and filtering items a user wants to buy is one of the most important features for any e-commerce application.



bershka.com/hr/q/haljine?sort=1&size=M&price=20

BERSHKA

haljine

462 rezultati

Sve Žene Muškarci BSK Teen

Top od šifona s volanima  
5,99 € -66%  
17,99 €

Satinirani korzet  
5,99 € -46%  
11,99 €

Filtriraj

Uredi prema 1

Cijena od niže prema višoj

Cijena od više prema nižoj

Veličina 1

XS XS-S S M M-L

L XL

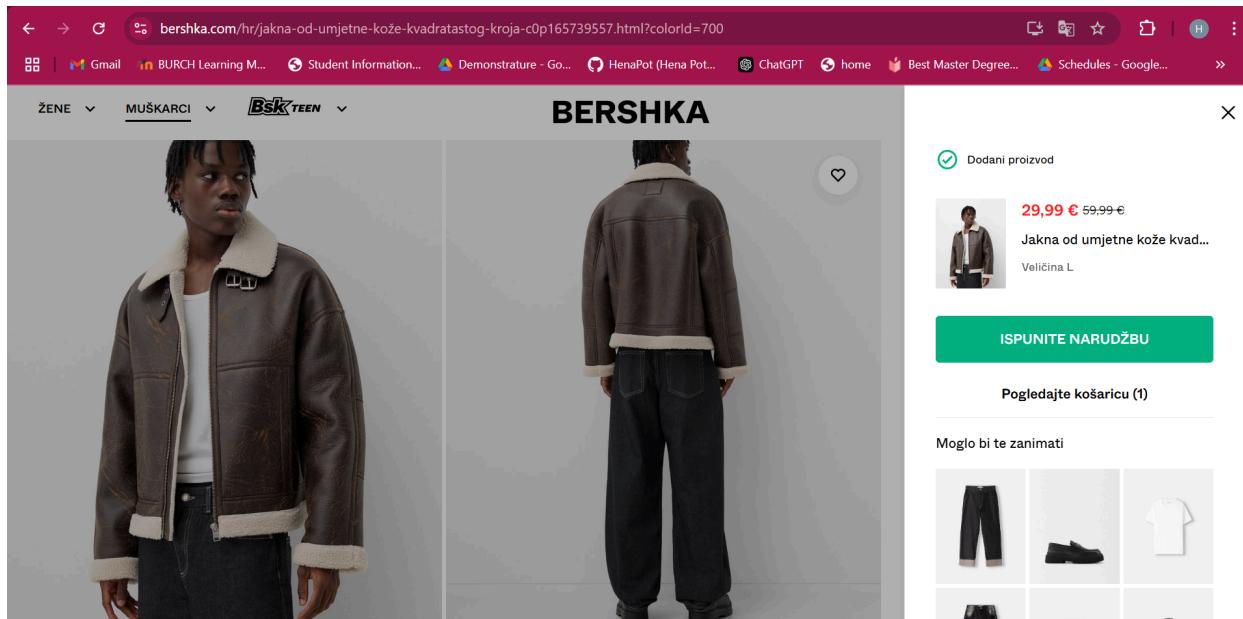
Cijena 1

Do 10,00 € Do 20,00 €

OČISTI POGLEDAJTE REZULTATE

#### 1.2.5. Adding a Fashion Item to Cart

The core of the shopping experience involves reviewing items a user wants to purchase. The shopping cart fulfills this purpose.



bershka.com/hr/jakna-od-umjetne-kože-kvadratnog-kroja-c0p165739557.html?colorId=700

ŽENE MUŠKARCI BSK TEEN

BERSHKA

Dodani proizvod

29,99 € 59,99 €

Jakna od umjetne kože kvadratna

Veličina L

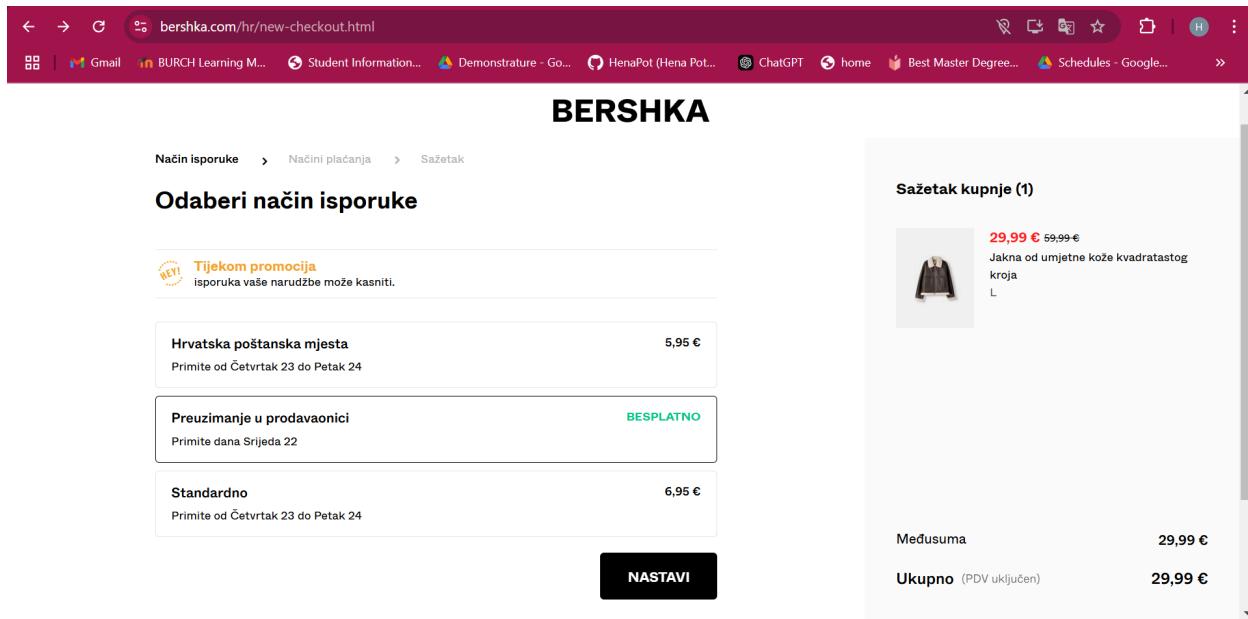
ISPUNITE NARUDŽBU

Pogledajte košaricu (1)

Moglo bi te zanimati

## 1.2.6. Checkout

No shopping experience can exist without paying for the chosen goods. Hence, checkout is a mandatory part of shopping.



The screenshot shows a web browser with the URL [bershka.com/hr/new-checkout.html](https://bershka.com/hr/new-checkout.html). The page title is "BERSHKA". The navigation bar includes links for "Način isporuke", "Načini plaćanja", and "Sažetak". The main content area is titled "Odaberi način isporuke" and lists three delivery options:

- Hrvatska poštanska mjesta**: 5,95 €, delivery from Thursday 23 to Friday 24.
- Preuzimanje u prodavaonici**: **BESPLATNO**, delivery on Wednesday 22.
- Standardno**: 6,95 €, delivery from Thursday 23 to Friday 24.

A "NASTAVI" button is located at the bottom of this section. To the right, a "Sažetak kupnje (1)" table shows a single item: a black leather jacket priced at 29,99 € (59,99 €). The total summary shows a "Međusuma" of 29,99 € and an "Ukupno (PDV uključen)" of 29,99 €.

## 1.2.7. Social media

Social media promote web pages so links to socials are mandatory on web pages.



## 1.2.12. Subscription

Subscription keeps users informed and gives them a feeling of exclusivity as well as exclusive shopping deals.



## Get 10% off

Email address

Date of birth (optional)

Date (Optional)

You want to subscribe to the newsletter:

Women

**Men**

I have read and accept the [Privacy Policy](#)

**SUBSCRIBE**

### 1.2.13. Wishlist

Wishlists are an important part of keeping our shopping experience organized and enjoyable.

The screenshot shows a user interface for a shopping website. At the top, there are navigation links for 'ZENE', 'MUSKARCI', 'BERSHKA TEEN', and a search bar with placeholder text 'Pretraži'. Below the search bar are icons for 'PRIAVI SE' and 'KOSARICA'. A sidebar on the left is titled 'Omljeni' (Favorites) and contains a message: 'Vasi omiljeni proizvodi čuvat će se neograničeno vrijeme' (Your favorite products will be saved indefinitely). It also includes a link 'Pristupi radnici ili ga kreirajte' (Access the worker or create it). Two product cards are displayed: a 'Bomber jakna od umjetne kože' (Artificial leather bomber jacket) in dark brown, priced at KM 119,00, and a 'Prošivena ispunjena jakna s kapuljačom' (Quilted hooded jacket) in black, priced at KM 99,95. Both products have a small red heart icon below them.

### 1.2.14. Preferences

Websites need to have easy access to user preferences such as language and cookies for easy site navigation.



## 2. Test Plan

### 2.1. Scope

Considering the authors of this project are students with limited financial resources, one of the critical functionalities of Bershka as an e-commerce platform is out of scope: validating online payments.

It was determined during testing that the website does not allow automated positive tests when it comes to login and registration, so user authentication and session persistence are focused on the guest user. For more information, see [3.3.1. Authentication Automation Forbidden](#)

With that being said, all other critical functionalities typical to an e-commerce website are covered:

- Visiting the Home Page shows users the most popular discounted content and this is the entry point for users to navigate all of the website's links.
- Nothing can make or break an e-commerce website like insufficient security measures. Testing whether Bershka's website complies with the security protocols, such as HTTPS, is essential to secure communication.

- User authentication is vital for protecting user's data integrity, so making sure user's accounts and actions are separate, tamper-resistant and properly formatted is our goal as Quality Assurance testers.
- Viewing all of the appropriate clothing section links is crucial for the functionality of Bershka as an online fashion and clothing store.
- Furthermore, interacting with the desired fashion items through search, filtering and adjusting item characteristics such as size and color is likely what users interact with the most at Bershka's website.
- In the process of shopping, the users want to add fashion items to the shopping cart and remove them.
- The very end of a shopping experience entails a checkout process that must be smooth and correct.
- Smooth session handling for guest users is just as important as any other.
- Referring to social media links is an extra feature that allows building a community
- Managing a subscription lets users stay updated and get subscription only discounts if they wish
- A wishlist is a great feature to let users save items they love without buying them so they could buy them later
- Language, place and cookie settings should easily be managed and customized by the customer.
- Editing personal information and deleting personal accounts are crucial parts of any shopping platform.

## 2.2. Testing Environment and Tools

Environment setup:

- IntelliJ IDE
- Maven for dependency management and builds

The tools and frameworks used in this project are:

- Java programming language
- JUnit testing framework
- Selenium WebDriver automation testing framework



### 3. Test Execution

#### 3.1. Inquire whether the website enforces HTTPS

Security is the very cornerstone of e-commerce. This is why it's crucial that Bershka's website uses the HTTPS protocol which encrypts the website's data as opposed to HTTP which keeps the website's data in plaintext.

<b>Test Name:</b> Positive HTTPS enforcement test				
<b>Description:</b> Attempting to open the website's homepage link with HTTP protocol should open it strictly with HTTPS protocol instead.				
<b>Pre-condition(s):</b>				
<b>Test Steps:</b>  1. Go to the homepage with 'http' in the url 2. Check if the opened homepage is actually using HTTPS	<b>Test Data:</b>	<b>Expected Result:</b> <a href="https://www.bershka.com/hr/40259554/h-man.html">https://www.bershka.com/hr/40259554/h-man.html</a> is opened	<b>Actual Result:</b> <a href="https://www.bershka.com/hr/40259554/h-man.html">https://www.bershka.com/hr/40259554/h-man.html</a> is opened	<b>Status:</b> PASS
<b>Notes:</b>				
<pre> @Test void testHTTPSEnforcementPositive() {     webDriver.get(baseUrl); //baseUrl = "http://www.bershka.com/hr/h-man.html"     webDriver.manage().timeouts().implicitlyWait(Duration.ofSeconds(5));     assertEquals( expected: "https://www.bershka.com/hr/40259554/h-man.html", webDriver.getCurrentUrl()); } </pre>				

<b>Test Name:</b> Second positive HTTPS enforcement test				
<b>Description:</b> Attempting to open the website's homepage url with HTTP protocol should open the url starting with HTTPS protocol instead.				
<b>Pre-condition(s):</b>				
<b>Test Steps:</b>  1. Go to the homepage that starts with 'http' in the url 2. Check if the opened homepage starts with 'https' instead	<b>Test Data:</b>	<b>Expected Result:</b> The opened url starts with 'https'	<b>Actual Result:</b> The opened url starts with 'https'	<b>Status:</b> PASS
<b>Notes:</b>				



```

@Test
void testHTTPSEnforcementPositiveTwo() {
    webDriver.get(baseUrl); //baseUrl = "http://www.bershka.com/hr/h-man.html"
    webDriver.manage().timeouts().implicitlyWait(Duration.ofSeconds(7));
    assertTrue(webDriver.getCurrentUrl().startsWith("https"));
}

```

**Test Name:** Negative HTTPS enforcement test

**Description:** Attempting to open the website's homepage link with HTTP protocol should not open it with HTTPS protocol.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the homepage url using 'http' 2. Check that the opened homepage url does not use 'http'		The opened url does not use 'http'	The opened url does not use 'http'	PASS

**Notes:**

```

@Test
void testHTTPSEnforcementNegative() {
    webDriver.get(baseUrl); //baseUrl = "http://www.bershka.com/hr/h-man.html"
    webDriver.manage().timeouts().implicitlyWait(Duration.ofSeconds(7));
    assertEquals(unexpected: "http://www.bershka.com/hr/40259554/h-man.html", webDriver.getCurrentUrl());
}

```

**Test Name:** Second negative HTTPS enforcement test

**Description:** Attempting to open the website's homepage link with HTTPS protocol should not open that same link using HTTP protocol.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the homepage that starts with 'http' in the url 2. Check if the opened url is different from the initial url		The opened url is different from the initial url	The opened url is different from the initial url'	PASS

**Notes:**



### 3.2. Visit the Home Page

Users want to be able to visit the home page, and get a quick glance at the most popular features it has to offer, particularly dealing with discounts and shopping categories.

<b>Test Name:</b> Test viewing discounted items from the home page				
<b>Description:</b> Check if all sidebar items are clickable and lead to their respective page				
<b>Pre-condition(s):</b>				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Close cookies popup 3. Click anywhere on the discounted section 4. Check that the opened URL is <a href="https://www.bershka.com/hr/men/clothes/sales-n5383.html">https://www.bershka.com/hr/men/clothes/sales-n5383.html</a>		The user is taken to the correct sales page.	The user is taken to the correct sales page.	PASS
<b>Notes:</b>				

```

@Test
void openDiscountedFashionItems() throws InterruptedException {
    webDriver.get(baseUrl);
    WebElement closeCookies = webDriver.findElement(By.xpath(xpathExpression: "//div[@id='onetrust-close-btn-container']/button"));
    JavascriptExecutor js = (JavascriptExecutor) webDriver;

    js.executeScript(script: "arguments[0].click()", closeCookies);

    Thread.sleep(millis: 7000);

    WebElement discountedPage = webDriver.findElement(By.xpath(xpathExpression: "//main"));
    discountedPage.click();

    Thread.sleep(millis: 2000);
    assertEquals(expected: "https://www.bershka.com/hr/men/clothes/sales-n5383.html", webDriver.getCurrentUrl());
}
  
```

<b>Test Name:</b> Test opening jackets and coats section				
<b>Description:</b> Check if the jackets and coats section can be opened from the home page.				
<b>Pre-condition(s):</b>				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Close cookies popup		The user is taken to the jackets and coats	The user is taken to the jackets and	PASS



3. Click on jackets and coats section 4. Check that the opened URL is <a href="https://www.bershka.com/hr/mu%C5%A1karci/sni%C5%BEenje-do--60%25/jakne-%26-kaputi-c1010747925.html">https://www.bershka.com/hr/mu%C5%A1karci/sni%C5%BEenje-do--60%25/jakne-%26-kaputi-c1010747925.html</a>		page.	coats page.	
---	--	-------	-------------	--

**Notes:**

```

@Test
void openJacketSalesPage() throws InterruptedException {
    webDriver.get(baseUrl);
    WebElement closeCookies = webDriver.findElement(By.xpath( xpathExpression: "//div[@id='onetrust-close-btn-container']/button"));
    JavascriptExecutor js = (JavascriptExecutor) webDriver;
    js.executeScript( script: "arguments[0].click()", closeCookies);
    Thread.sleep( millis: 5000);

    WebElement jacketPage = webDriver.findElement(By.xpath
        ( xpathExpression: "//*[@id='main-content']/div/div/section/div/ul/li[1]/a/figure/figcaption"));
    jacketPage.click();
    Thread.sleep( millis: 2000);

    assertEquals( expected: "https://www.bershka.com/hr/mu%C5%A1karci/sni%C5%BEenje-do--60%25/jakne-%26-kaputi-c1010747925.html",
        webDriver.getCurrentUrl());
}

```

**Test Name:** Test opening pants and jeans section**Description:** Check if the pants and jeans section can be opened from the home page.**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Close cookies popup 3. Click on pants and jeans section 4. Check that the opened URL is <a href="https://www.bershka.com/hr/mu%C5%A1karci/sni%C5%BEenje-do--60%25/jakne-%26-kaputi-c1010747925.html">https://www.bershka.com/hr/mu%C5%A1karci/sni%C5%BEenje-do--60%25/jakne-%26-kaputi-c1010747925.html</a>		The user is taken to the pants and jeans page.	The user is taken to the pants and jeans page.	PASS

**Notes:**



```

    @Test
    void openPantsAndJeansPage() throws InterruptedException {
        webDriver.get(baseUrl);
        WebElement closeCookies = webDriver.findElement(By.xpath("//div[@id='onetrust-close-btn-container']/button"));
        JavascriptExecutor js = (JavascriptExecutor) webDriver;
        js.executeScript("arguments[0].click()", closeCookies);
        Thread.sleep( millis: 5000);

        WebElement jacketPage = webDriver.findElement(By.xpath(
            ("xpathExpression: //*[@id='main-content']/div/div/section/div/ul/li[1]/a/figure/figcaption")));
        jacketPage.click();
        Thread.sleep( millis: 2000);

        assertEquals( expected: "https://www.bershka.com/hr/mu%C5%A1karci/sn1%C5%BEenje-do--60%25/jakne-%26-kaputi-c1010747925.html",
            webDriver.getCurrentUrl());
    }
}

```

**Test Name:** Test opening discover new fashion**Description:** Check if the discover new fashion section can be opened from the home page.**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Close cookies popup 3. Click on the button named “Otkrijte”. 4. Check that the opened URL is <a href="https://www.bershka.com/hr/muskarci/novo-n3745.html">https://www.bershka.com/hr/muskarci/novo-n3745.html</a>		The user is taken to the discover new fashion page.	The user is taken to the discover new fashion page.	PASS

**Notes:**

```

    @Test
    void discoverNewFashion() throws InterruptedException {
        webDriver.get(baseUrl);
        WebElement closeCookies = webDriver.findElement(By.xpath("//div[@id='onetrust-close-btn-container']/button"));
        JavascriptExecutor js = (JavascriptExecutor) webDriver;
        js.executeScript("arguments[0].click()", closeCookies);
        Thread.sleep( millis: 5000);

        WebElement discoverButton = webDriver.findElement(By.cssSelector("a.bds-button.bds-button-pill.bds-button--size-l
            .bds-button-primary"));
        discoverButton.click();
        Thread.sleep( millis: 2000);

        assertEquals( expected: "https://www.bershka.com/hr/muskarci/novo-n3745.html", webDriver.getCurrentUrl());
    }
}

```

**Test Name:** Test opening streetwear fashion section**Description:** Check if the streetwear fashion section can be opened from the home page.**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Close cookies popup 3. Click on the image with title "STREETWEAR" 4. Check that the opened URL is <a href="https://www.bershka.com/hr/pag/bershkastyle.html?style=66206392&amp;gender=66486573">https://www.bershka.com/hr/pag/bershkastyle.html?style=66206392&amp;gender=66486573</a>		The user is taken to the streetwear fashion section page.	The user is taken to the streetwear fashion section page.	PASS

**Notes:**

```

    @Test
    void viewStreetwearFashion() throws InterruptedException {
        webDriver.get(baseUrl);
        WebElement closeCookies = webDriver.findElement(By.xpath("//div[@id='onetrust-close-btn-container']/button"));
        JavascriptExecutor js = (JavascriptExecutor) webDriver;
        js.executeScript("arguments[0].click()", closeCookies);
        Thread.sleep( 5000 );

        WebElement discoverButton = webDriver.findElement(By.xpath(
            ("xpathExpression: //*[@id='main-content']/div/div/section/section[1]/div/figure[1]/a")));
        discoverButton.click();
        Thread.sleep( 2000 );

        assertEquals( expected: "https://www.bershka.com/hr/pag/bershkastyle.html?style=66206392&gender=66486573", webDriver.getCurrentUrl
        ());
    }
}
  
```

### 3.3. User Authentication

User registration, login and logout all fall under the user authentication. Making sure user authentication is robust is of critical importance for an e-commerce shop.

**Test Name:** Test registering a new account with a bad password format**Description:** Check if registering a new user account with an improperly formatted



password results in an error validation message.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<p>1. Go to the home page</p> <p>2. Close cookies popup</p> <p>3. Click on the button named “PRIJAVI SE”.</p> <p>4. Click on “Nemate račun? Registrirajte se.”</p> <p>5. Enter email: hena.potogija@stu.ibu.edu.ba</p> <p>6. Enter password: ThisIsJustATest</p> <p>7. Click on “Ostani prijavljen” checkbox</p> <p>8. Click on agreement with privacy policy checkbox.</p> <p>9. Review and close privacy policy popup.</p> <p>10. Click on the form submit button named “KREIRAJTE RAČUN”.</p> <p>11. Check that the form wasn't submitted as there is an error validation message when it comes to the password.</p>	<p>Email: hena.potogija@stu.ibu.edu.ba</p> <p>Password: ThisIsJustATest</p> <p>“Ostani prijavljen” checkbox: true</p> <p>Privacy policy checkbox: true</p>	<p>The form is not submitted as there is an error validation message displayed that says: “Najmanje 8 znakova, uključujući mala i velika slova i jedan broj. Ne ponavljajte isti znak više od 3 puta”</p>	<p>The form is not submitted as there is an error validation message displayed that says: “Najmanje 8 znakova, uključujući mala i velika slova i jedan broj. Ne ponavljajte isti znak više od 3 puta”</p>	PASS

**Notes:**



```

    @Test
    void testRegistrationBadPassword() throws InterruptedException {
        webDriver.get(baseUrl);
        JavascriptExecutor js = (JavascriptExecutor) webDriver;
        webDriver.manage().timeouts().implicitlyWait(Duration.ofSeconds(7));

        WebElement accessUserAuthButton = webDriver.findElement(By.xpath( xpathExpression: "//a[@href='/hr/logon.html?showRegister=true']"));
        Thread.sleep( millis: 700);
        accessUserAuthButton.click();
        Thread.sleep( millis: 7000);

        WebElement startRegistrationButton = webDriver.findElement(By.xpath( xpathExpression: "//a[@href='/hr/register.html']"));
        Thread.sleep( millis: 700);
        startRegistrationButton.click();
        Thread.sleep( millis: 7000);

        WebElement emailInput = webDriver.findElement(By.id("register_email"));
        emailInput.sendKeys( ...keysToSend: "hena.potogija@stu.ibu.edu.ba");
        Thread.sleep( millis: 1000);

        WebElement passwordInput = webDriver.findElement(By.id("register_password"));
        passwordInput.sendKeys( ...keysToSend: "ThisIsJustATest");
        Thread.sleep( millis: 1000);
    }

```

### 3.3.1. Authentication Automation Forbidden

Test Name: Test logging in with a good email and password				
Description: Check if using valid credentials - email and password for logging in results in a successful login.				
Pre-condition(s): The account with the outlined credentials has been registered previously.				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Close cookies popup 3. Click on the button named "Prijava se". 4. Enter email: hena.potogija@stu.ibu.edu.ba 5. Enter password: ThisIsJustATea;1 6. Click on the form submit button named "PRIJAVI SE". 7. Check that the first button clicked to initiate login is no longer named "Prijava se" but "Moj račun"	Email: hena.potogija@stu.ibu.edu.ba  Password: ThisIsJustATea;1	The logged in user sees the "Moj račun" button instead of "Prijava se" button.	The guest user does not see the "Moj račun" button.	FAIL



**Notes:** Despite our best efforts, including advanced Selenium features, random delays, using a specific Chrome profile, Removing Navigator.Webdriver Flag, inspecting network traffic, and more, we've realized that the website was rather well made and simply does not allow successful authentication as no matter what, the response of the post request for login is forbidden.

For this test case, you can find a video to confirm our efforts.

```

    @Test
    void testLoginGoodEmailAndGoodPassword() throws InterruptedException {
        webDriver.get(baseUrl);
        JavascriptExecutor js = (JavascriptExecutor) webDriver;
        webDriver.manage().timeouts().implicitlyWait(Duration.ofSeconds(7));

        WebElement signupButton = webDriver.findElement(By.xpath("//a[@href='/hr/logon.html?showRegister=true']"));
        Thread.sleep( millis: (int)(Math.random() * 1000) + 500);

        signupButton.click();
        Thread.sleep( millis: 7000);

        WebElement emailInput = webDriver.findElement(By.id("login_email"));
        js.executeScript( script: "arguments[0].scrollIntoView(true);", emailInput);
        Thread.sleep( millis: 1500);
        emailInput.sendKeys( ...keysToSend: "hena.potogija@stu.ibu.edu.ba");
        Thread.sleep( millis: (int)(Math.random() * 1000) + 500);

        WebElement passwordInput = webDriver.findElement(By.id("login_password"));
        js.executeScript( script: "arguments[0].scrollIntoView(true);", emailInput);
        Thread.sleep( millis: (int)(Math.random() * 1000) + 500);

        passwordInput.sendKeys( ...keysToSend: "ThisIsJustATea;1");
        Thread.sleep( millis: (int)(Math.random() * 1000) + 500);

        WebElement passwordInput = webDriver.findElement(By.id("login_password"));
        js.executeScript( script: "arguments[0].scrollIntoView(true);", emailInput);
        Thread.sleep( millis: (int)(Math.random() * 1000) + 500);

        passwordInput.sendKeys( ...keysToSend: "ThisIsJustATea;1");
        Thread.sleep( millis: (int)(Math.random() * 1000) + 500);

        WebElement loginButton = webDriver.findElement(By.xpath("//*[@id=\"login_submitLogin\"]/span"));
        Thread.sleep( millis: (int)(Math.random() * 1000) + 500);

        loginButton.click();
        Thread.sleep( millis: 2000);

        WebElement loggedInMark = webDriver.findElement(
            By.xpath("//span[@aria-hidden='true' and @class='account-icon-desktop__label' and text()='Moj račun']");
        assertEquals( expected: "Moj račun", loggedInMark.getText());
    }
}

```

**Test Name:** Test logging in with a bad email and password

**Description:** Check if using invalid email and invalid password for logging in results in an unsuccessful login.

**Pre-condition(s):** There is no registered account with these credentials.

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
-------------	------------	------------------	----------------	---------

1. Go to the home page 2. Close cookies popup 3. Click on the button named “PRIJAVI SE”. 4. Enter email: test-email@gmail.com 5. Enter password: 123 6. Click on the form submit button named “PRIJAVI SE”. 7. Check that the first button clicked to initiate login is named “PRIJAVI SE” indicating the user is not logged in.	Email: test-email@gmail.com  Password: 123	The visitor user sees the “PRIJAVI SE” button.	The visitor user sees the “PRIJAVI SE” button.	<b>PASS</b>
--	--	--	--	-------------

**Notes:**

```

@Test
void testBadLoginEmailAndPassword() throws InterruptedException {
  webDriver.get(baseUrl);
  JavascriptExecutor js = (JavascriptExecutor) webDriver;
  webDriver.manage().timeouts().implicitlyWait(Duration.ofSeconds(7));
  WebElement signupButton = webDriver.findElement(By.xpath( xpathExpression: "//a[@href='/hr/logon.html?showRegister=true']"));
  Thread.sleep( millis: 700);
  signupButton.click();
  Thread.sleep( millis: 7000);
  WebElement emailInput = webDriver.findElement(By.id("login_email"));
  emailInput.sendKeys( ...keysToSend: "test-email@gmail.com");
  Thread.sleep( millis: 1000);

  WebElement passwordInput = webDriver.findElement(By.id("login_password"));
  passwordInput.sendKeys( ...keysToSend: "123");
  Thread.sleep( millis: 1000);

  WebElement loginButton = webDriver.findElement( By.xpath( xpathExpression: "//*[@id=\"Login_submitLogin\"]/span"));
  Thread.sleep( millis: 700);
  loginButton.click();
  Thread.sleep( millis: 2000);

  WebElement loggedInMark = webDriver.findElement(
    By.xpath( xpathExpression: "//span[@aria-hidden='true' and @class='account-icon-desktop__label']");
  assertEquals( expected: "PRIJAVI SE", loggedInMark.getText());
}

```

### 3.4. Women's, Men's, and Teen's Sections

The main navigation links in the primary navbar consist of the core fashion item browsing categories - Women's, Men's, and Teen's sections. Given the importance and usage frequency of these categories in an online fashion store, testing their functionality is a must.

**Test Name:** Test opening womens' section's new dresses

**Description:** Check if the primary navbar can open the women's section, then further open the new subsection within the women's section, and finally narrow the results down to only dresses.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<ol style="list-style-type: none"> <li>1. Go to the home page</li> <li>2. Close cookies popup</li> <li>3. Click on “Žene” link on the primary navbar</li> <li>4. Keep hovering within the open popup area and click on “Novosti” link</li> <li>5. On the opened “Novosti” page click on the “Haljine” rectangle.</li> <li>6. Check if the “Haljine” rectangle is checked.</li> </ol>		The page shows only new dresses for the women's section.	The page shows only new dresses for the women's section.	PASS

**Notes:**

```

    @Test
    void testWomensNewDresses() throws InterruptedException {
        webDriver.get(baseUrl);
        webDriver.manage().timeouts().implicitlyWait(Duration.ofSeconds(7));
        Actions actions = new Actions(webDriver);

        WebElement womensSectionHoverArea = webDriver.findElement(By.cssSelector("a[href='/hr/h-woman.html']"));
        ((JavascriptExecutor) webDriver).executeScript("arguments[0].scrollIntoView(true);", womensSectionHoverArea);
        Thread.sleep( 500);

        actions.moveToElement(womensSectionHoverArea).perform();
        Thread.sleep( 1000);
        womensSectionHoverArea.click();
        Thread.sleep( 2500);
        WebElement newWomensFashion = webDriver.findElement(By.xpath( xpathExpression: "//*[@id=\"aria-žene\"]]/ul/li[2]/div/a"));
        actions.moveToElement(newWomensFashion).click().perform();
        Thread.sleep( 2500);

        WebElement dresses = webDriver.findElement(
            By.xpath( xpathExpression: "//*[@id=\"main-content\"]//div/div[1]/div[1]/div/div/div/div[5]/button"));
        Thread.sleep( 500);
        dresses.click();
        Thread.sleep( 2500);
        String ariaCheckedValue = dresses.getAttribute( name: "aria-checked");
        assertEquals( expected: "true", ariaCheckedValue);
    }
}

```

**Test Name:** Test opening women section's accessory glasses

**Description:** Check if the primary navbar can open the women's section, then further open the accessory subsection within the women's section, and finally open the glasses subsection within accessory subsection.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<ol style="list-style-type: none"> <li>1. Go to the home page</li> <li>2. Close cookies popup</li> <li>3. Click on “Žene” link on the primary navbar</li> <li>4. Keep hovering within the open popup area and click on “DODACI” link</li> <li>5. Keep hovering within the open popup area and click on the newly opened “NAOČALE” link.</li> <li>6. Check if the category name on the opened page is “Naočale”.</li> </ol>		The opened page has the category name “Naočale”.	The opened page has the category name “Naočale”.	PASS

```

@Test
void testWomensAccessoryGlasses() throws InterruptedException {
    webDriver.get(baseUrl);
    webDriver.manage().timeouts().implicitlyWait(Duration.ofSeconds(7));
    Actions actions = new Actions(webDriver);
    WebElement womensSectionHoverArea = webDriver.findElement(By.cssSelector("a[href='/hr/h-woman.html']"));
    ((JavascriptExecutor) webDriver).executeScript("arguments[0].scrollIntoView(true);", womensSectionHoverArea);
    Thread.sleep(500);

    actions.moveToElement(womensSectionHoverArea).perform();
    Thread.sleep(1000);
    womensSectionHoverArea.click();
    Thread.sleep(2500);
    WebElement womensAccessories = webDriver.findElement(
        By.xpath("//*[@id=\"aria-žene\"]/ul/li[5]/div/button/span/span/span"));
    actions.moveToElement(womensAccessories).click().perform();
    Thread.sleep(2500);
    WebElement glassesLink = webDriver.findElement(
        By.xpath("//*[@id=\"aria-žene\"]/ul/li[5]/div/div/div/ul/li[10]/div/a/span"));
    actions.moveToElement(glassesLink).click().perform();
    Thread.sleep(1000);

    WebElement glassesCategoryName = webDriver.findElement(By.tagName("h1"));
    assertEquals(expected: "Naočale", glassesCategoryName.getText());
}

```

**Test Name:** Test opening men section's footwear sport shoes

**Description:** Check if the primary navbar can open the men's section, then further open the footwear subsection within the men's section, and then open sport shoes as the subsection of footwear.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<ol style="list-style-type: none"> <li>1. Go to the home page</li> <li>2. Close cookies popup</li> <li>3. Click on “Muškarci” link on the primary navbar</li> <li>4. Keep hovering within the open popup area and click on “OBUĆA” link</li> <li>5. Keep hovering within the open popup area and click on the newly opened “SPORTSKA OBUĆA” link.</li> <li>6. Check if the category name on the opened page is “Sportska obuća”.</li> </ol>		The page shows only sport shoes within men's footwear.	The page shows only sport shoes within men's footwear.	PASS

**Notes:**

```

@Test
void testMensFootwearSportShoes() throws InterruptedException {
    webDriver.get(baseUrl);
    webDriver.manage().timeouts().implicitlyWait(Duration.ofSeconds(5));
    Actions actions = new Actions(webDriver);
    WebElement mensSectionHoverArea = webDriver.findElement(By.cssSelector("a[href='/hr/h-man.html']"));
    ((JavascriptExecutor) webDriver).executeScript("arguments[0].scrollIntoView(true);", mensSectionHoverArea);
    Thread.sleep(500);
    actions.moveToElement(mensSectionHoverArea).perform();
    Thread.sleep(1000);
    mensSectionHoverArea.click();
    Thread.sleep(2500);
    WebElement mensFootwear = webDriver.findElement(
        By.xpath(xpathExpression: "//*[@id='aria-Muškarci']/ul/li[4]/div/button/span/span"));
    actions.moveToElement(mensFootwear).click().perform();
    Thread.sleep(2500);
    WebElement sportShoesLink = webDriver.findElement(
        By.xpath(xpathExpression: "//*[@id='aria-Muškarci']/ul/li[4]/div/div/div/ul/li[5]/div/a/span"));
    actions.moveToElement(sportShoesLink).click().perform();
    Thread.sleep(1000);
    WebElement sportShoesCategoryName = webDriver.findElement(By.tagName("h1"));
    assertEquals(expected: "Sportska obuća", sportShoesCategoryName.getText());
}

```

**Test Name:** Test opening teen section's print shop

**Description:** Check if the primary navbar can open the teen's section, then further open the print shop subsection.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Close cookies popup 3. Click on "BSK Teen" link on the primary navbar 4. Keep hovering within the open popup area and click on "The BERSHKA Print Shop" link 5. Check if the category name on the opened page is The BERSHKA Print Shop."		The "The BERSHKA Print Shop" page is opened	The "The BERSHKA Print Shop" page is opened	PASS

**Notes:**

```

  @Test
void testTeenPrintShop() throws InterruptedException {
    webDriver.get(baseUrl);
    webDriver.manage().timeouts().implicitlyWait(Duration.ofSeconds(7));
    Actions actions = new Actions(webDriver);
    WebElement teenSectionHoverArea = webDriver.findElement(
      By.xpath("//*[@id='aria-desktop-menu']/div[3]/div/div/ul/li[3]/div/a"));
    ((JavascriptExecutor) webDriver).executeScript("arguments[0].scrollIntoView(true);", teenSectionHoverArea);
    Thread.sleep( 500 );
    actions.moveToElement(teenSectionHoverArea).perform();
    Thread.sleep( 1000 );
    teenSectionHoverArea.click();
    Thread.sleep( 2500 );
    WebElement printShop = webDriver.findElement(
      By.xpath("//*[@id='aria-bskteen']/ul/li[6]/div[2]/a/span"));
    actions.moveToElement(printShop).click().perform();
    Thread.sleep( 3500 );
    WebElement printShopCategoryName = webDriver.findElement(By.tagName("h1"));
    assertEquals( expected: "The BERSHKA Print Shop", printShopCategoryName.getText());
}
  
```

### 3.5. Interacting with Fashion Items

Users want to carefully examine descriptions of the items, choose the right sizes and colors according to their liking.



**Test Name:** Select size L and review materials of first item in men's new fashion

**Description:** Open men's new fashion section. Open the first item and select size L and review the materials it is made of. Check the review materials drawer is opened.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<p>1. Go to the home page with men's fashion selected</p> <p>2. Close cookies popup</p> <p>3. Keep hovering within the open popup area and click on "Odjeća" link</p> <p>4. Click on the first item displayed on the discover new fashion page.</p> <p>5. Select the size L on the opened item page.</p> <p>6. Click on "Sastav, održavanje i podrijetlo" link.</p> <p>7. Check that the drawer with the name "Sastav, održavanje i podrijetlo" is opened.</p>		The drawer with the name "Sastav, održavanje i podrijetlo" is opened.	The drawer with the name "Sastav, održavanje i podrijetlo" is opened.	PASS

**Notes:**

```

@Test
void openMensNewFashionFirstItemChoseLSizeReviewMaterials() throws InterruptedException {
    webDriver.get(baseUrl);
    WebElement closeCookies = webDriver.findElement(By.xpath("//div[@id='onetrust-close-btn-container']/button"));
    JavascriptExecutor js = (JavascriptExecutor) webDriver;
    js.executeScript("arguments[0].click();", closeCookies);
    Thread.sleep( millis: 5000 );
    WebElement discoverButton = webDriver.findElement(By.cssSelector("a.bds-button.bds-button-pill.bds-button--size-l.bds-button--primary")
discoverButton.click();
    Thread.sleep( millis: 4000 );
    WebElement firstFashionItem = webDriver.findElement(By.xpath( xpathExpression: "//a[@data-qa-anchor='productItemHref' and @tabindex='0']")
Thread.sleep( millis: 500 );
    firstFashionItem.click();
    Thread.sleep( millis: 3500 );
    WebElement selectLSize = webDriver.findElement(By.xpath( xpathExpression: "//button[@aria-label='Veličina L']")
selectLSize.click();
    Thread.sleep( millis: 3000 );
    WebElement reviewMaterials = webDriver.findElement(By.cssSelector(".product-links-list__item--interactive.is-naked"));
    reviewMaterials.click();
    Thread.sleep( millis: 4000 );
    WebElement sastavPorijeklo = webDriver.findElement(By.className("bsk-drawer__title"));
    assertEquals( expected: "Sastav, odražavanje i podrijetlo", sastavPorijeklo.getText());
}

```

**Test Name:** Choose fashion item color, size, and length

**Description:** Open women's clothing subsection. Open the first item and select blue color, size 38, and Petite length. Check that these characteristics are indeed selected.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<p>1. Go to the home page</p> <p>2. Close cookies popup</p> <p>3. Click on the button named “Otkrijte”.</p> <p>4. Keep hovering within the open popup area and click on “BEST SELLERS” link</p> <p>5. Click on the first item displayed on the opened page.</p> <p>6. Select the color blue for the fashion item.</p> <p>7. Select the size 38 for the fashion item.</p> <p>8. Select the length Petite for the fashion item.</p> <p>9. Check that blue color, size 38 and length Petite have been</p>		Blue color, size 38 and length Petite have been selected on the page.	Blue color, size 38 and length Petite have been selected on the page.	PASS



selected on the page.				
-----------------------	--	--	--	--

### Notes:

```

@Test
void testWomensNewDresses() throws InterruptedException {
    webDriver.get(baseUrl);
    webDriver.manage().timeouts().implicitlyWait(Duration.ofSeconds(7));
    Actions actions = new Actions(webDriver);

    WebElement womensSectionHoverArea = webDriver.findElement(By.cssSelector("a[href='/hr/h-woman.html']"));
    ((JavascriptExecutor) webDriver).executeScript("arguments[0].scrollIntoView(true);", womensSectionHoverArea);
    Thread.sleep( millis: 500);

    actions.moveToElement(womensSectionHoverArea).perform();
    Thread.sleep( millis: 1000);
    womensSectionHoverArea.click();
    Thread.sleep( millis: 2500);
    WebElement womensClothes = webDriver.findElement(By.xpath( xpathExpression: "//*[@id=\"aria-žene\"]//ul/li[3]/div/button/span/span"));
    actions.moveToElement(womensClothes).click().perform();
    Thread.sleep( millis: 2500);

    WebElement bestSellers = webDriver.findElement(
        By.xpath( xpathExpression: "//*[@id=\"aria-žene\"]//ul/li[3]/div/div/div/ul/li[1]/div/a/span"));
    Thread.sleep( millis: 500);
    bestSellers.click();
    Thread.sleep( millis: 2500);

    Thread.sleep( millis: 2500);

    WebElement firstItem = webDriver.findElement(
        By.xpath( xpathExpression: "//*[ @id=\"main-content\"]//div/div[1]/div[2]/section[1]/div/div/ul/li[1]/div/a/div/div[1]/div[1]/span/img[1]"));
    firstItem.click();
    Thread.sleep( millis: 2500);

    WebElement selectBlueColor = webDriver.findElement(By.xpath( xpathExpression: "//*[ @id=\"color-428\"]/a/span/img"));
    selectBlueColor.click();
    Thread.sleep( millis: 2500);

    WebElement select38Size = webDriver.findElement(By.xpath( xpathExpression: "//button[@aria-label='Veličina 38']"));
    select38Size.click();
    Thread.sleep( millis: 3000);

    WebElement selectPetiteItemLength = webDriver.findElement(
        By.xpath( xpathExpression: "//*[ @id=\"main-content\"]//section/div/div[1]/div[1]/section/div[2]/section[1]/div[2]/ul/li[1]/button"));
    selectPetiteItemLength.click();
    Thread.sleep( millis: 3000);

    assertTrue(webDriver.getPageSource()
        .contains("aria-label=\"Veličina 38\" data-qc-anchor=\"selectedSize\" role=\"checkbox\" aria-checked=\"true\""));
    assertTrue(webDriver.getPageSource().contains("aria-label=\"Dužina Petite\" role=\"checkbox\" aria-checked=\"true\""));
    assertTrue(webDriver.getPageSource().contains("aria-selected=\"true\" aria-label=\"Isprana plava\""));
}

```

### 3.6. Search Fashion Items

Searching desired items ensures users can quickly get to the products they are looking for, ensuring a smooth and frustration free experience.

<b>Test Name:</b> Test searching an empty string
--



**Description:** Click on the search button. Check that sending an empty string into search input results in an error validation message.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<ol style="list-style-type: none"> <li>1. Go to the home page</li> <li>2. Close cookies popup</li> <li>3. Click on the search button named “Pretraži”.</li> <li>4. Input an empty string into the search input and enter key.</li> <li>5. Check that the error validation message popped up “Opišite što tražite (npr. majica s kratkim rukavima)”.</li> </ol>		The error validation message popped up “Opišite što tražite (npr. majica s kratkim rukavima)”.	The error validation message popped up “Opišite što tražite (npr. majica s kratkim rukavima)”.	PASS

**Notes:**

```

@Test
public void searchEmptyStringTest() throws InterruptedException {
    webDriver.get(baseUrl);
    WebElement closeCookies = webDriver.findElement(
        By.xpath( xpathExpression: "//*[@id=\"aria-desktop-menu\"]]/div[3]/div/div/ul/li[3]/div/a"));
    JavascriptExecutor js = (JavascriptExecutor) webDriver;

    js.executeScript( script: "arguments[0].click()", closeCookies);
    Thread.sleep( millis: 5000);

    WebElement searchBarButton = webDriver.findElement(By.xpath( xpathExpression: "//button[@data-qa-anchor='searchBtn']"));
    searchBarButton.click();
    Thread.sleep( millis: 3000);

    WebElement searchInput = webDriver.findElement(By.id("input-search"));
    Thread.sleep( millis: 250);
    searchInput.sendKeys( ...keysToSend: "" + Keys.ENTER);

    Thread.sleep( millis: 3000);

    WebElement errorMessage = webDriver.findElement(By.className("search-bar-input__error"));
    assertEquals( expected: "Opišite što tražite (npr. majica s kratkim rukavima)", errorMessage.getText());
}

```

**Test Name:** Test searching a suggested input chip “Haljine”

**Description:** Click on the search button. Check that clicking on a suggested chip named “Haljine” opens a page that contains at least one dress fashion item.

**Pre-condition(s):**



Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<p>1. Go to the home page</p> <p>2. Close cookies popup</p> <p>3. Click on the search button named “Pretraži”.</p> <p>4. Click on a suggested input chip named “Haljine”</p> <p>5. Check that the page contains “haljina” in the source code.</p>	<p>“” (empty string)</p> <p>Enter key</p>	<p>The page contains “haljina” in the source code.</p>	<p>The page contains “haljina” in the source code.</p>	PASS

**Notes:**

```

@Test
public void searchSuggestedDresses() throws InterruptedException {
    webDriver.get(baseUrl);
    WebElement closeCookies = webDriver.findElement(
        By.xpath( xpathExpression: "//*[@id='aria-desktop-menu']/div[3]/div/div/ul/li[3]/div/a"));
    JavascriptExecutor js = (JavascriptExecutor) webDriver;
    js.executeScript( script: "arguments[0].click()", closeCookies);
    Thread.sleep( millis: 5000);

    WebElement searchButton = webDriver.findElement(By.xpath( xpathExpression: "//button[@data-qa-anchor='searchBtn']"));
    searchButton.click();
    Thread.sleep( millis: 3000);
    WebElement searchInput = webDriver.findElement(By.id("input-search"));
    Thread.sleep( millis: 250);

    WebElement suggestedDressesChip = webDriver.findElement(By.xpath( xpathExpression: "//a[@href='/hr/q/Haljine']"));
    Thread.sleep( millis: 250);
    suggestedDressesChip.click();
    Thread.sleep( millis: 5000);

    assertTrue(webDriver.getPageSource().contains("haljina"));
}

```

**Test Name:** Test searching text with special characters

**Description:** Click on the search button. Check that searching text with special characters results in no items displayed regarding the search.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<p>1. Go to the home page</p> <p>2. Close cookies popup</p> <p>3. Click on the search button named “Pretraži”.</p>	<p>test :@)q(*)</p> <p>Enter key</p>	<p>No search results are displayed.</p>	<p>No search results are displayed.</p>	PASS



4. Input “test :@)q(*)” string into search input and enter key. 6. Check that no search results are displayed.				
---	--	--	--	--

**Notes:**

```

    @Test
    public void searchSpecialCharactersGetNoItemsDisplayed() throws InterruptedException {
        webDriver.get(baseUrl);
        WebElement closeCookies = webDriver.findElement(
            By.xpath( xpathExpression: "//*[@id=\\\"aria-desktop-menu\\\"]//div[3]/div/div/ul/li[3]/div/a"));
        JavascriptExecutor js = (JavascriptExecutor) webDriver;

        js.executeScript( script: "arguments[0].click()", closeCookies);
        Thread.sleep( millis: 5000);

        WebElement searchButton = webDriver.findElement(By.xpath( xpathExpression: "//button[@data-qa-anchor='searchBtn']"));
        searchButton.click();
        Thread.sleep( millis: 3000);

        WebElement searchInput = webDriver.findElement(By.id("input-search"));
        Thread.sleep( millis: 250);
        searchInput.sendKeys( ...keysToSend: "test :@)q(*)" + Keys.ENTER);

        Thread.sleep( millis: 3000);

        assertTrue(webDriver.getPageSource().contains("Nismo pronašli rezultate"));
    }
}

```

### 3.7. Filter Fashion Items

Filtering and narrowing down the fashion item section is an important part of any e-commerce application as it largely improves user experience.

**Test Name:** Test applying one filter per each available filter category

**Description:** Click on the filter button. Open filter categories: “Uredi prema”, “Kategorija”, “Boja”, “Veličina”, and “Cijena” and choose one filter in each category: “Cijena od niže prema višoj”, “Hlače”, “Plava”, “XL”, and “Do 30,00 €”.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Close cookies popup 3. Click on anywhere on the discounted section. 4. Click on the filter	“Cijena od niže prema višoj” checkbox = true  “Hlače” checkbox = true	No search results are displayed.	No search results are displayed.	PASS



<p>button named “Filtri”.</p> <p>5. Open the “Uredi prema” filter section and click on “Cijena od niže prema višoj”.</p> <p>6. Open the “Kategorija” filter section and click on “Hlače”.</p> <p>7. Open the “Boja” filter section and click on “Plava”.</p> <p>8. Open the “Veličina” filter section and click on “XL”.</p> <p>9. Open the “Cijena” filter section and click on “Do 30,00 €”.</p>	<p>“Plava” checkbox = true</p> <p>“XL” checkbox = true</p> <p>“Do 30,00 €” checkbox = true</p>			
--	--	--	--	--

**Notes:**

```

@Test
void applyOneFilterPerEachFilterCategoryNoItemsFound() throws InterruptedException {
    webDriver.get(baseUrl);
    WebElement closeCookies = webDriver.findElement(By.xpath("//div[@id='onetrust-close-btn-container']/button"));
    JavascriptExecutor js = (JavascriptExecutor) webDriver;

    js.executeScript("arguments[0].click();", closeCookies);

    Thread.sleep( 7000 );

    WebElement discountedPage = webDriver.findElement(By.xpath("//main"));
    discountedPage.click();

    Thread.sleep( 2000 );
    WebElement filterButton = webDriver.findElement(By.cssSelector("button[data-qa-anchor='filterButton']"));
    filterButton.click();
    Thread.sleep( 1000 );

    WebElement sortFilterButtonByLowerPrice = webDriver.findElement(By.xpath("//button[@value='byLowerPrice']"));
    Thread.sleep( 500 );
    sortFilterButtonByLowerPrice.click();

    Thread.sleep( 1500 );
}

```

```

 WebElement sortFilterButtonCategory = webDriver.findElement(
    By.xpath( xpathExpression: "//*[@id=\"main-content\"]//div/div[1]/div[2]/div[1]/section/div[2]/div/div[section[2]/button"));
sortFilterButtonCategory.click();
Thread.sleep( millis: 1500);

WebElement trousersCategory = webDriver.findElement(By.xpath( xpathExpression: "//button[@nameen=\"Trousers\"]"));
trousersCategory.click();
Thread.sleep( millis: 2500);

WebElement sortFilterButtonColor = webDriver.findElement(
    By.xpath( xpathExpression: "//*[@id=\"main-content\"]//div/div[1]/div[2]/div[1]/section/div[2]/div/div[section[3]/button"));
sortFilterButtonColor.click();
Thread.sleep( millis: 1500);

WebElement blueColor = webDriver.findElement(
    By.xpath( xpathExpression: "//*[@id=\"main-content\"]//div/div[1]/div[2]/div[1]/section/div[2]/div/div[section[3]/div/div[8]/button");
js.executeScript( script: "arguments[0].scrollIntoView(true);", blueColor);
blueColor.click();
Thread.sleep( millis: 2500);

WebElement sortFilterButtonSize = webDriver.findElement(
    By.xpath( xpathExpression: "//*[@id=\"main-content\"]//div/div[1]/div[2]/div[1]/section/div[2]/div/div[section[4]/button"));
js.executeScript( script: "arguments[0].scrollIntoView(true);", sortFilterButtonSize);
sortFilterButtonSize.click();

 WebElement sizeXL = webDriver.findElement(
    By.xpath( xpathExpression: "//*[@id=\"main-content\"]//div/div[1]/div[2]/div[1]/section/div[2]/div/div[section[4]/div/button[7]");
js.executeScript( script: "arguments[0].scrollIntoView(true);", sizeXL);
sizeXL.click();
Thread.sleep( millis: 2500);

WebElement sortFilterButtonMaxPrice = webDriver.findElement(
    By.xpath( xpathExpression: "//*[@id=\"main-content\"]//div/div[1]/div[2]/div[1]/section/div[2]/div/div[section[5]/button"));
js.executeScript( script: "arguments[0].scrollIntoView(true);", sortFilterButtonMaxPrice);
sortFilterButtonMaxPrice.click();
Thread.sleep( millis: 1500);

WebElement maxPrice30 = webDriver.findElement(
    By.xpath( xpathExpression: "//*[@id=\"main-content\"]//div/div[1]/div[2]/div[1]/section/div[2]/div/div[section[5]/div/button[5]");
js.executeScript( script: "arguments[0].scrollIntoView(true);", maxPrice30);
maxPrice30.click();
Thread.sleep( millis: 2500);

assertTrue(webDriver.getPageSource().contains("Nema rezultata"));
assertTrue(webDriver.getPageSource().contains("Pokušajte odabratи druge filtre"));

}

```

**Test Name:** Test applying multiple filters in two filter categories

**Description:** Click on the filter button. Open filter categories: “Kategorija”, “Boja”, and choose multiple filters in each category: For the “Kategorija” choose “Odjeća”, “Basic odjeća” and “Obuća”. For the category “Boja” choose “Bijela” and “Crna”.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page	“Odjeća”	The result button		PASS



<p>2. Close cookies popup</p> <p>3. Click on the “Otkrij” button.</p> <p>4. Click on the filter button named “Filtri”.</p> <p>5. Open the “Kategorija” filter section and click on “Hlače”.</p> <p>6. Open the “Kategorija” filter section and click on “Hlače”.</p> <p>7. Open the “Kategorija” filter section and click on “Hlače”.</p> <p>8. Open the “Boja” filter section and click on “Plava”.</p> <p>9. Open the “Boja” filter section and click on “Plava”.</p> <p>10. Check that the result button enumerated 34 fashion items.</p>	<p>checkbox = true</p> <p>“Basic odjeća” checkbox = true</p> <p>“Obuća” checkbox = true</p> <p>“Bijela” checkbox = true</p> <p>“Crna” checkbox = true</p>	<p>enumerated 34 fashion items.</p>	<p>The result button enumerated 34 fashion items.</p>	
--	---	-------------------------------------	---	--

**Notes:**

```

    @Test
    void applyMultipleFiltersForTwoCategoriesWithDiscount() throws InterruptedException {
        webDriver.get(baseUrl);
        WebElement closeCookies = webDriver.findElement(By.xpath("//div[@id='onetrust-close-btn-container']/button"));
        JavascriptExecutor js = (JavascriptExecutor) webDriver;

        js.executeScript("arguments[0].click()", closeCookies);

        Thread.sleep( 7000 );

        WebElement discoverButton = webDriver.findElement(
            By.cssSelector("a.bds-button.bds-button-pill.bds-button--size-l.bds-button--primary"));
        discoverButton.click();
        Thread.sleep( 2000 );

        WebElement filterButton = webDriver.findElement(By.cssSelector("button[data-qa-anchor='filterButton']"));
        filterButton.click();
        Thread.sleep( 1500 );

        WebElement sortFilterButtonCategory = webDriver.findElement(
            By.xpath("//*[@id='main-content']/div/div[1]/div[2]/div[1]/section/div[2]/div/div/section[2]/button"));
        sortFilterButtonCategory.click();
        Thread.sleep( 1500 );
    }

```



```

WebElement clothesCategory = webDriver.findElement(By.xpath( xpathExpression: "//button[@nameen=\"Clothes\"]"));
clothesCategory.click();
Thread.sleep( millis: 1000);

WebElement basicsCategory = webDriver.findElement(By.xpath( xpathExpression: "//button[@nameen=\"Basics\"]"));
basicsCategory.click();
Thread.sleep( millis: 1000);

WebElement shoesCategory = webDriver.findElement(By.xpath( xpathExpression: "//button[@nameen=\"Shoes\"]"));
shoesCategory.click();
Thread.sleep( millis: 1000);

WebElement sortFilterButtonColor = webDriver.findElement(
    By.xpath( xpathExpression: "//*[@@id=\"main-content\"]//div/div[1]/div[2]/div[1]/section/div[2]/div/div[section[3]/button");
sortFilterButtonColor.click();
Thread.sleep( millis: 1500);

WebElement whiteColor = webDriver.findElement(
    By.xpath( xpathExpression: "//*[@@id=\"main-content\"]//div/div[1]/div[2]/div[1]/section/div[2]/div/div[section[3]/div/div[1]/button");
js.executeScript( script: "arguments[0].scrollIntoView(true);", whiteColor);
whiteColor.click();
Thread.sleep( millis: 500);
}

 WebElement blackColor = webDriver.findElement(
    By.xpath( xpathExpression: "//*[@@id=\"main-content\"]//div/div[1]/div[2]/div[1] +
        "/section/div[2]/div/div[section[3]/div/div[6]/button");
js.executeScript( script: "arguments[0].scrollIntoView(true);", blackColor);
blackColor.click();
Thread.sleep( millis: 1500);

 WebElement resultButton = webDriver.findElement(By.xpath( xpathExpression: "//button[@data-qa-anchor='seeResultBtn']"));
assertTrue(resultButton.getText().contains("34"));
}
}

```

### Test Name: Test clearing all filters

**Description:** Navigate to the link that sets up filters. Click on the filter button and check that the filter button enumerated 34 fashion items. Then click on the clear all filters button and check that the filter button did not enumerate 34 items.

**Pre-condition(s):** The given url should contain valid URL query parameters so that some filters are already set up for the clearing to work.

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<ol style="list-style-type: none"> <li>1. Go to the men's discover new page that has filters set up.</li> <li>2. Close cookies popup</li> <li>3. Click on the filter button named "Filtri".</li> <li>4. Check that the result button enumerated 34 fashion items.</li> <li>5. Click on the clear</li> </ol>		The result button did not enumerate 34 fashion items.	The result button did not enumerate 34 fashion items.	PASS



filters button named "Očisti" 6. Check that the result button did not enumerate 34 fashion items.				
<b>Notes:</b>				

```

@Test
public void testClearingFilters() throws InterruptedException {
    webDriver.get("https://www.bershka.com/hr/muskarci/novo-n3745.html" +
        "?" +
        "tipology=1010624787%7C%7C1010565676%7C%7C1010565177&color=Bijela%7C%7CCrna");
    WebElement closeCookies = webDriver.findElement(By.xpath( xpathExpression: "//div[@id='onetrust-close-btn-container']/button"));
    JavascriptExecutor js = (JavascriptExecutor) webDriver;
    js.executeScript( script: "arguments[0].click()", closeCookies);
    Thread.sleep( millis: 7000);

    WebElement filterButton = webDriver.findElement(By.cssSelector("button[data-qa-anchor='filterButton']"));
    filterButton.click();
    Thread.sleep( millis: 1500);

    WebElement resultButton = webDriver.findElement(By.xpath( xpathExpression: "//button[@data-qa-anchor='seeResultBtn']"));
    assertTrue(resultButton.getText().contains("34"));

    WebElement clearFiltersButton = webDriver.findElement(By.xpath( xpathExpression: "//button[@data-qa-anchor='clearFilters']"));
    clearFiltersButton.click();

    resultButton = webDriver.findElement(By.xpath( xpathExpression: "//button[@data-qa-anchor='seeResultBtn']"));
    assertFalse(resultButton.getText().contains("34"));
}

```

### 3.8. Add and Remove Items from Shopping Cart

Users want to add and remove items from their shopping cart in order to prepare for checkout and payment completion.

**Test Name:** Test adding teen footwear to cart without opening item page

**Description:** Open teen's footwear subsection. Hover over the first item and select size 37. This should automatically add the chosen item to the shopping cart.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Close cookies popup 3. Click on the primary navigation link BSK Teen.		The page shows "Dodano u košaricu".	The page shows "Dodano u košaricu".	PASS

4. Keep hovering within the open popup area and click on “Obuća” link 4. Hover over the first item displayed on the opened page. 5. Select the size 37 for the fashion item. 8. Check that the page shows “Dodano u košaricu”.				
---	--	--	--	--

**Notes:**

```

@Test
void openTeenSectionChooseFirstItemSize37WithoutOpeningItemPage() throws InterruptedException {
    webDriver.get(baseUrl);
    WebElement closeCookies = webDriver.findElement(By.xpath("//*[@id=\"aria-desktop-menu\"]//div[3]/div/div/ul/li[3]/div/a"));
    JavascriptExecutor js = (JavascriptExecutor) webDriver;
    Actions actions = new Actions(webDriver);

    js.executeScript("arguments[0].click()", closeCookies);
    Thread.sleep(5000);

    WebElement teenSectionHoverArea = webDriver.findElement(By.cssSelector("a[href='/hr/h-bskteen.html']"));
    ((JavascriptExecutor) webDriver).executeScript("arguments[0].scrollIntoView(true)", teenSectionHoverArea);
    Thread.sleep(500);

    actions.moveToElement(teenSectionHoverArea).perform();
    Thread.sleep(1000);
    teenSectionHoverArea.click();
    Thread.sleep(2500);

    WebElement footwear = webDriver.findElement(By.xpath("//*[@id=\"aria-Bskteen\"]//ul/li[4]/div/a/span/span"));
    Thread.sleep(500);
    footwear.click();
}

```

```

actions.moveToElement(teenSectionHoverArea).perform();
Thread.sleep(1000);
teenSectionHoverArea.click();
Thread.sleep(2500);

WebElement footwear = webDriver.findElement(By.xpath("//*[@id=\"aria-Bskteen\"]//ul/li[4]/div/a/span/span"));
Thread.sleep(500);
footwear.click();
Thread.sleep(2500);

WebElement firstItem = webDriver.findElement(
    By.xpath("//*[@id=\"main-content\"]//div/div[1]/div[2]/section[1]/div/div/ul/li[1]/div/a"));
js.executeScript("arguments[0].scrollIntoView(true)", firstItem);
actions.moveToElement(firstItem).perform();
Thread.sleep(3500);

WebElement choose37Size = webDriver.findElement(
    By.xpath("//*[@id=\"main-content\"]//div/div[1]/div[2]/section[1]/div/div/ul/li[1]/div/a/div/div[1]/div[3]/div"));
choose37Size.click();
Thread.sleep(1000);

assertTrue(webDriver.getPageSource().contains("Dodano u košaricu"));
}

```

**Test Name:** Test that an empty cart is empty

**Description:** Open the shopping cart that has never had any items and check that it displays text indicating that the cart is empty.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Close cookies popup 3. Click on the cart button. 4. Check that the cart is empty by displaying text "Košarica je prazna" and "Još nemate niti jedan artikl u košarici. Otkrijte sve što vam nudimo."		The cart is empty by displaying text "Košarica je prazna" and "Još nemate niti jedan artikl u košarici. Otkrijte sve što vam nudimo."	The cart is empty by displaying text "Košarica je prazna" and "Još nemate niti jedan artikl u košarici. Otkrijte sve što vam nudimo."	PASS

**Notes:**

```

    @Test
    void testEmptyCartIsEmpty() throws InterruptedException {
        webDriver.get(baseUrl);
        WebElement closeCookies = webDriver.findElement(
            By.xpath( xpathExpression: "//*[@id=\\"aria-desktop-menu\\"]//div[3]/div/div/ul/li[3]/div/a"));
        JavascriptExecutor js = (JavascriptExecutor) webDriver;
        Actions actions = new Actions(webDriver);

        js.executeScript( script: "arguments[0].click()", closeCookies);
        Thread.sleep( millis: 6000);

        WebElement cart = webDriver.findElement(By.xpath( xpathExpression: "//*[@id=\\"aria-button-shopcart\\"]/div"));
        cart.click();
        Thread.sleep( millis: 2000);

        assertTrue(webDriver.getPageSource().contains("Košarica je prazna"));
        assertTrue(webDriver.getPageSource().contains("Još nemate niti jedan artikl u košarici. Otkrijte sve što vam nudimo."));
    }
  
```

**Test Name:** Test attempting to add an item to cart without specifying size

**Description:** Open the first item on the (men's) discover page. Attempt to add it to cart without specifying a size or anything else. Check that the item is not added to cart.

**Pre-condition(s):**



Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<p>1. Go to the home page</p> <p>2. Close cookies popup</p> <p>3. Click on the discover button.</p> <p>4. Open the first fashion item.</p> <p>5. Click on “Dodaj u Košaricu” button.</p> <p>6. Check that the error validation message is displayed “Morate odabrati veličinu”.</p>		The error validation message is displayed “Morate odabrati veličinu”.	The error validation message is displayed “Morate odabrati veličinu”.	PASS

**Notes:**

```

    @Test
    void testAddItemToCartWithoutSelectingSize() throws InterruptedException {
        webDriver.get(baseUrl);
        WebElement closeCookies = webDriver.findElement(
            By.xpath( xpathExpression: "//*[@id=\\\"aria-desktop-menu\\\"]//div[3]/div/div/ul/li[3]/div/a"));
        JavascriptExecutor js = (JavascriptExecutor) webDriver;
        Actions actions = new Actions(webDriver);
        js.executeScript( script: "arguments[0].click()", closeCookies);
        Thread.sleep( millis: 7000 );
        WebElement discoverButton = webDriver.findElement(
            By.cssSelector("a.bds-button.bds-button-pill.bds-button--size-l.bds-button--primary"));
        Thread.sleep( millis: 500 );
        discoverButton.click();
        Thread.sleep( millis: 2000 );

        WebElement firstFashionItem = webDriver.findElement(
            By.xpath( xpathExpression: "//a[@data-qa-anchor='productItemHref' and @tabindex='0']"));
        firstFashionItem.click();
        Thread.sleep( millis: 2000 );
        WebElement addToCartButton = webDriver.findElement(By.className("product-actions__action-text"));
        addToCartButton.click();
        Thread.sleep( millis: 1500 );
        WebElement errorValidationMessage = webDriver.findElement(
            By.xpath( xpathExpression: "//*[@id=\\\"main-content\\\"]//section/div/div[1]/div[1]/section/div[2]/span"));
        assertEquals( expected: "Morate odabrati veličinu", errorValidationMessage.getText());
    }
}

```

**Test Name:** Test adding an item to cart with specifying size

**Description:** Open the first item on the discover page. Click on size M and click on “Dodaj u Košaricu” button. Check that the item is added to cart.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<p>1. Go to the home page</p> <p>2. Close cookies popup</p> <p>3. Click on the discover button.</p> <p>4. Open the first fashion item.</p> <p>5. Click on size M for the fashion item.</p> <p>6. Click on “Dodaj u Košaricu” button.</p> <p>7. Check that the cart contains the name of the fashion item.</p>		The cart contains the name of the fashion item.	The cart contains the name of the fashion item.	PASS

**Notes:**

```

@Test
void testAddItemToCartWithSize() throws InterruptedException {
    webDriver.get(baseUrl);
    WebElement closeCookies = webDriver.findElement(
        By.xpath( xpathExpression: "//*[@id=\\\"aria-desktop-menu\\\"]/div[3]/div/div/ul/li[3]/div/a"));
    JavascriptExecutor js = (JavascriptExecutor) webDriver;
    js.executeScript( script: "arguments[0].click()", closeCookies);
    Thread.sleep( millis: 7000);

    WebElement discoverButton = webDriver.findElement(
        By.cssSelector("a.bds-button.bds-button-pill.bds-button--size-l.bds-button--primary"));
    Thread.sleep( millis: 500);
    discoverButton.click();
    Thread.sleep( millis: 2000);

    WebElement firstFashionItem = webDriver.findElement(
        By.xpath( xpathExpression: "//a[@data-qa-anchor='productItemHref' and @tabindex='0']"));
    firstFashionItem.click();
    Thread.sleep( millis: 2000);

    WebElement itemNameElement = webDriver.findElement(
        By.xpath( xpathExpression: "//*[@id=\\\"main-content\\\"]/section/div/div[1]/div[1]/section/div[1]/h1"));
    String itemName = itemNameElement.getText();
}

```



```

WebElement sizeM = webDriver.findElement(By.xpath( xpathExpression: "//button[@aria-label='Veličina M']"));
sizeM.click();
Thread.sleep( millis: 1500);

WebElement addToCartButton = webDriver.findElement(By.className("product-actions__action-text"));
addToCartButton.click();
Thread.sleep( millis: 250);

WebElement cart = webDriver.findElement(By.xpath( xpathExpression: "//*[@id=\"aria-button-shopcart\"]/div"));
cart.click();
Thread.sleep( millis: 2000);

assertTrue(webDriver.getPageSource().contains(itemName));
}

```

**Test Name:** Test adding and removing an item from the cart**Description:** Open the first item on the discover page. Add it to the cart and then remove it. Check that the cart is empty.**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<p>1. Go to the home page</p> <p>2. Close cookies popup</p> <p>3. Click on the discover button.</p> <p>4. Open the first fashion item.</p> <p>5. Click on size M for the fashion item.</p> <p>6. Click on “Dodaj u Košaricu” button.</p> <p>7. Close the added to cart drawer.</p> <p>8. Open the cart.</p> <p>9. Delete the previously added item.</p> <p>10. Check that the shopping cart is empty, “Košarica je prazna”, is displayed.</p>		The shopping cart is empty, “Košarica je prazna” is displayed.	The shopping cart is empty, “Košarica je prazna” is displayed.	PASS

**Notes:**

```

    @Test
    public void addAndRemoveAnItemFromCart() throws InterruptedException {
        webDriver.get(baseUrl);
        WebElement closeCookies = webDriver.findElement(
            By.xpath( xpathExpression: "//*[@id=\"aria-desktop-menu\"]//div[3]/div/div/ul/li[3]/div/a"));
        JavascriptExecutor js = (JavascriptExecutor) webDriver;
        WebDriverWait wait = new WebDriverWait(webDriver, Duration.ofSeconds(10));
        js.executeScript( script: "arguments[0].click()", closeCookies);
        Thread.sleep( millis: 7000);

        WebElement discoverButton = wait.until(
            ExpectedConditions.elementToBeClickable(
                By.cssSelector("a.bds-button.bds-button-pill.bds-button--size-l.bds-button--primary")));
        discoverButton.click();
        Thread.sleep( millis: 2000);

        WebElement firstFashionItem = webDriver.findElement(
            By.xpath( xpathExpression: "//a[@data-qa-anchor='productItemHref' and @tabindex='0']"));
        firstFashionItem.click();
        Thread.sleep( millis: 2000);

        WebElement sizeM = webDriver.findElement(By.xpath( xpathExpression: "//button[@aria-label='Veličina M']"));
        sizeM.click();
        Thread.sleep( millis: 1500);

        WebElement addToCartButton = webDriver.findElement(By.className("product-actions__action-text"));
        addToCartButton.click();

        WebElement closeDrawer = wait.until(
            ExpectedConditions.elementToBeClickable(
                By.xpath( xpathExpression: "//*[@id=\"aria-button-drawer\"]/span[2]")));
        closeDrawer.click();
        Thread.sleep( millis: 1000);

        WebElement cart = webDriver.findElement(By.xpath( xpathExpression: "//*[@id=\"aria-button-shopcart\"]/div"));
        cart.click();
        Thread.sleep( millis: 1000);

        WebElement deleteItemButton = webDriver.findElement(By.xpath( xpathExpression: "//button[@data-qa-anchor='deleteCartBtn']"));
        Thread.sleep( millis: 1500);
        deleteItemButton.click();
        Thread.sleep( millis: 1000);

        assertTrue(webDriver.getPageSource().contains("Košarica je prazna"));
    }
}

```

### 3.9. Checkout Fashion Items

Users must be able to pay for their chosen fashion items smoothly so checkout is definitely one of the crucial features to test.

**Test Name:** Test successful checkout

**Description:** Test that a successful checkout of one item is possible with a guest account up to having to pay the actual money. Check the fashion item's total price.

**Pre-condition(s):**

<b>Test Steps:</b>	<b>Test Data:</b>	<b>Expected Result:</b>	<b>Actual Result:</b>	<b>Status:</b>
<p>1. Go to the home page</p> <p>2. Close cookies popup</p> <p>3. Click on the primary navigation link BSK Teen.</p> <p>4. Keep hovering within the open popup area and click on “Obuća” link</p> <p>4. Hover over the first item displayed on the opened page.</p> <p>5. Select the size 37 for the fashion item.</p> <p>8. Click and open the shopping cart.</p> <p>9. Click on “Ispunite narudžbu” to start checkout.</p> <p>10. Click on the “Nastavite kao Gost” button.</p> <p>11. Choose “Preuzimanje u prodavaonici” payment method</p> <p>12. Press the “Nastavite” button.</p> <p>13. In the address input field input “zadar” and the enter key.</p> <p>14. Click on the first store located in zadar.</p> <p>15. Press the continue button on the modal.</p> <p>16. Enter first name: Hena</p> <p>17. Enter last name: Potogija</p> <p>18. Enter email: <a href="mailto:hena.potogija@stu.ibu.edu.ba">hena.potogija@stu.ibu.edu.ba</a></p> <p>19. Enter phone number: 603237378</p> <p>20. Click on “Nastavite” button.</p> <p>21. Check that the total</p>	<p>Address: "zadar" and enter key</p> <p>First Name: Hena</p> <p>Last Name: Potogija</p> <p>Email: hena.potogija@stu.ibu.edu.ba</p> <p>Phone: 603237378</p>	<p>The total amount of money to be paid is 29,99 €.</p>	<p>The total amount of money to be paid is 29,99 €.</p>	PASS



amount of money to be paid is 29,99 €.				
--	--	--	--	--

## Notes:

```

@Test
void checkoutSuccess() throws InterruptedException {
    webDriver.get(baseUrl);
    WebElement closeCookies = webDriver.findElement(
        By.xpath( xpathExpression: "//*[@id='aria-desktop-menu']/div[3]/div/div/ul/li[3]/div/a"));
    JavascriptExecutor js = (JavascriptExecutor) webDriver;
    Actions actions = new Actions(webDriver);
    WebDriverWait wait = new WebDriverWait(webDriver, Duration.ofSeconds(10));

    js.executeScript( script: "arguments[0].click()", closeCookies);
    Thread.sleep( millis: 5000);

    WebElement teenSectionHoverArea = webDriver.findElement(By.cssSelector("a[href='/hr/h-bskteen.html']"));
    ((JavascriptExecutor) webDriver).executeScript( script: "arguments[0].scrollIntoView(true);", teenSectionHoverArea);
    Thread.sleep( millis: 500);

    actions.moveToElement(teenSectionHoverArea).perform();
    Thread.sleep( millis: 1000);
    teenSectionHoverArea.click();
    Thread.sleep( millis: 2500);

    WebElement footwear = wait.until(
        ExpectedConditions.elementToBeClickable(
            By.xpath( xpathExpression: "//*[@id='aria-Bskteen']/ul/li[4]/div/a/span/span")));
    Thread.sleep( millis: 500);
    footwear.click();
    Thread.sleep( millis: 2500);

    WebElement firstItem = webDriver.findElement(
        By.xpath( xpathExpression: "//*[@id='main-content']/div/div[1]/div[2]/section[1]/div/div/ul/li[1]/div/a"));
    js.executeScript( script: "arguments[0].scrollIntoView(true);", firstItem);
    actions.moveToElement(firstItem).perform();
    Thread.sleep( millis: 3500);

    WebElement choose37Size = webDriver.findElement(
        By.xpath( xpathExpression: "//*[@id='main-content']/div/div[1]/div[2]/section[1]/div/div/ul/li[1]/div/a/div/div[1]/" +
            "div[3]/div/div/div/div[2]/ul/li[3]/button"));
    choose37Size.click();
    Thread.sleep( millis: 4000);

    WebElement cart = wait.until(
        ExpectedConditions.elementToBeClickable(
            By.xpath( xpathExpression: "//*[@id='aria-button-shopcart']/div")));
    cart.click();
}

```

```

Thread.sleep( millis: 2000);

WebElement checkoutButton = webDriver.findElement(By.xpath( xpathExpression: "//button[@data-qa-anchor='processOrderBtn']"));
Thread.sleep( millis: 1500);
checkoutButton.click();
Thread.sleep( millis: 1500);

WebElement continueAsGuestButton = webDriver.findElement(By.xpath( xpathExpression: "//a[@href='/hr/new-checkout.html']"));
js.executeScript( script: "arguments[0].scrollIntoView(true);", continueAsGuestButton);
continueAsGuestButton.click();
Thread.sleep( millis: 3500);

WebElement paymentOption = wait.until(
    ExpectedConditions.elementToBeClickable(
        By.xpath( xpathExpression: "//*[@id=\"main-content\"]//div/div[1]/div[1]/div[2]/button/span")));
Thread.sleep( millis: 200);
paymentOption.click();
Thread.sleep( millis: 500);

WebElement continueButton = webDriver.findElement(
    By.xpath( xpathExpression: "//*[@id=\"main-content\"]//div/div[1]/div[1]/div[2]/div/div/button"));
Thread.sleep( millis: 200);
continueButton.click();
Thread.sleep( millis: 3500);

WebElement addressInput = wait.until(
    ExpectedConditions.elementToBeClickable(
        By.id("checkout-shipping-pickup-search_address")));

addressInput.sendKeys( ...keysToSend: "zadar" + Keys.ENTER);
Thread.sleep( millis: 1500);

WebElement zadarStore = wait.until(
    ExpectedConditions.elementToBeClickable(
        By.xpath( xpathExpression: "//*[@id=\"8733\"]/span")));
Thread.sleep( millis: 200);
zadarStore.click();

Thread.sleep( millis: 1000);
WebElement continueModalButton = webDriver.findElement(
    By.xpath( xpathExpression: "//*[@id=\"aria-modal-PickupSelectDesktop\"]//div/div/div/div/div/div[2]/div/button"));
js.executeScript( script: "arguments[0].scrollIntoView(true);", continueModalButton);
Thread.sleep( millis: 200);

continueModalButton.click();
Thread.sleep( millis: 2000);

```

```

continueModalButton.click();
Thread.sleep( millis: 2000);

WebElement firstName = webDriver.findElement(By.id("checkout-shipping-pickup(firstName")));
firstName.sendKeys( ...keysToSend: "Hena");
Thread.sleep( millis: 1000);

WebElement lastName = webDriver.findElement(By.id("checkout-shipping-pickup(lastName")));
lastName.sendKeys( ...keysToSend: "Potogija");
Thread.sleep( millis: 1000);

WebElement emailInput = webDriver.findElement(By.id("checkout-shipping-pickup_email"));
emailInput.sendKeys( ...keysToSend: "hena.potogija@stu.ibu.edu.ba");
Thread.sleep( millis: 1000);

WebElement phone = webDriver.findElement(By.id("checkout-shipping-pickup_phone"));
phone.sendKeys( ...keysToSend: "603237378");
Thread.sleep( millis: 1000);

WebElement continueToPaymentButton = webDriver.findElement(
    By.xpath( xpathExpression: "//*[@id=\\"checkout-shipping-pickup_submit\\"]/span"));
Thread.sleep( millis: 200);
continueToPaymentButton.click();
Thread.sleep( millis: 1000);

```

```

WebElement continueToPaymentButton = webDriver.findElement(
    By.xpath( xpathExpression: "//*[@id=\\"checkout-shipping-pickup_submit\\"]/span"));
Thread.sleep( millis: 200);
continueToPaymentButton.click();
Thread.sleep( millis: 1000);

WebElement totalMoney = wait.until(
    ExpectedConditions.elementToBeClickable(
        By.xpath( xpathExpression: "//*[@id=\\"main-content\\"]/div/div[2]/div[2]/div/div[2]/div/div/div[2]/div/div/span")));
String stringMoney = totalMoney.getText();
Thread.sleep( millis: 2000);

assertEquals( expected: "29,99 €", stringMoney);
}

```

#### Test Name: Test unsuccessful checkout

**Description:** Test an unsuccessful checkout in case the phone number entered during entering checkout details is not correctly formatted.

#### Pre-condition(s):

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Close cookies popup	Address: "zadar" and	The phone	The phone number error	PASS



<p>3. Click on the primary navigation link BSK Teen.</p> <p>4. Keep hovering within the open popup area and click on “Obuća” link</p> <p>4. Hover over the first item displayed on the opened page.</p> <p>5. Select the size 37 for the fashion item.</p> <p>8. Click and open the shopping cart.</p> <p>9. Click on “Ispunite narudžbu” to start checkout.</p> <p>10. Click on the “Nastavite kao Gost” button.</p> <p>11. Choose “Preuzimanje u prodavaonici” payment method</p> <p>12. Press the “Nastavite” button.</p> <p>13. In the address input field input “zadar” and the enter key.</p> <p>14. Click on the first store located in zadar.</p> <p>15. Press the continue button on the modal.</p> <p>16. Enter first name: Hena</p> <p>17. Enter last name: Potogija</p> <p>18. Enter email: <a href="mailto:hena.potogija@stu.ibu.edu.ba">hena.potogija@stu.ibu.edu.ba</a></p> <p>19. Enter phone number: cdcds</p> <p>20. Click on “Nastavite” button.</p> <p>21. Check that the phone number error validation message is shown: “Broj telefona nije ispravan”</p>	<p>enter key</p> <p>First Name: Hena</p> <p>Last Name: Potogija</p> <p>Email: <a href="mailto:hena.potogija@stu.ibu.edu.ba">hena.potogija@stu.ibu.edu.ba</a></p> <p>Phone Number: cdcds</p>	<p>number error validation message is shown: “Broj telefona nije ispravan”.</p>	<p>validation message is shown: “Broj telefona nije ispravan”.</p>	
---	---	---	--	--

## Notes:

```
@Test
void unsuccessfulCheckoutBadPhoneNumber() throws InterruptedException {
    webDriver.get(baseUrl);
    WebElement closeCookies = webDriver.findElement(
        By.xpath( xpathExpression: "//*[@id=\"aria-desktop-menu\"]//div[3]/div/div/ul/li[3]/div/a"));
    JavascriptExecutor js = (JavascriptExecutor) webDriver;
    Actions actions = new Actions(webDriver);
    WebDriverWait wait = new WebDriverWait(webDriver, Duration.ofSeconds(10));

    js.executeScript( script: "arguments[0].click()", closeCookies);
    Thread.sleep( millis: 5000);

    WebElement teenSectionHoverArea = webDriver.findElement(By.cssSelector("a[href='/hr/h-bskteen.html']"));
    ((JavascriptExecutor) webDriver).executeScript( script: "arguments[0].scrollIntoView(true)", teenSectionHoverArea);
    Thread.sleep( millis: 500);

    actions.moveToElement(teenSectionHoverArea).perform();
    Thread.sleep( millis: 1000);
    teenSectionHoverArea.click();
    Thread.sleep( millis: 2500);

    WebElement footwear = wait.until(
        ExpectedConditions.elementToBeClickable(
            By.xpath( xpathExpression: "//*[@id=\"aria-Bskteen\"]//ul/li[4]/div/a/span/span")));
    Thread.sleep( millis: 500);

    ...  
    ...  

    footwear.click();
    Thread.sleep( millis: 2500);

    WebElement firstItem = webDriver.findElement(
        By.xpath( xpathExpression: "//*[@id=\"main-content\"]//div/div[1]/div[2]/section[1]/div/div/ul/li[1]/div/a"));
    js.executeScript( script: "arguments[0].scrollIntoView(true)", firstItem);
    actions.moveToElement(firstItem).perform();
    Thread.sleep( millis: 3500);

    WebElement choose37Size = webDriver.findElement(
        By.xpath( xpathExpression: "//*[@id=\"main-content\"]//div/div[1]/div[2]/section[1]/div/div/ul/li[1]/div/a/div/div[1]/" +
            "div[3]/div/div/div/div[2]/ul/li[3]/button"));
    choose37Size.click();
    Thread.sleep( millis: 4000);

    WebElement cart = wait.until(
        ExpectedConditions.elementToBeClickable(
            By.xpath( xpathExpression: "//*[@id=\"aria-button-shopcart\"]//div")));
    cart.click();
    Thread.sleep( millis: 2000);

    WebElement checkoutButton = webDriver.findElement(By.xpath( xpathExpression: "//button[@data-qa-anchor='processOrderBtn']"));
    Thread.sleep( millis: 1500);
    checkoutButton.click();
    Thread.sleep( millis: 1500);
```

```

WebElement continueAsGuestButton = webDriver.findElement(By.xpath( xpathExpression: "//a[@href='/hr/new-checkout.html']"));
js.executeScript( script: "arguments[0].scrollIntoView(true);", continueAsGuestButton);
continueAsGuestButton.click();
Thread.sleep( millis: 3500);

WebElement paymentOption = wait.until(
    ExpectedConditions.elementToBeClickable(
        By.xpath( xpathExpression: "//*[@id=\\"main-content\\"]/div/div[1]/div/ul/li[2]/button/span")));
Thread.sleep( millis: 200);
paymentOption.click();
Thread.sleep( millis: 500);

WebElement continueButton = webDriver.findElement(
    By.xpath( xpathExpression: "//*[@id=\\"main-content\\"]/div/div[1]/div/div[2]/div/button"));
Thread.sleep( millis: 200);
continueButton.click();
Thread.sleep( millis: 3500);

WebElement addressInput = wait.until(
    ExpectedConditions.elementToBeClickable(
        By.id("checkout-shipping-pickup-search_address")));
addressInput.sendKeys( ...keysToSend: "zadar" + Keys.ENTER);
Thread.sleep( millis: 1500);

```

```

Thread.sleep( millis: 1500);

WebElement zadarStore = wait.until(
    ExpectedConditions.elementToBeClickable(
        By.xpath( xpathExpression: "//*[@id=\\"8733\\"]/span")));
Thread.sleep( millis: 200);
zadarStore.click();

Thread.sleep( millis: 1000);
WebElement continueModalButton = webDriver.findElement(
    By.xpath( xpathExpression: "//*[@id=\\"aria-modal-PickupSelectDesktop\\"]/div/div/div/div/div/div[2]/div/button"));
js.executeScript( script: "arguments[0].scrollIntoView(true);", continueModalButton);
Thread.sleep( millis: 200);

continueModalButton.click();
Thread.sleep( millis: 2000);

WebElement firstName = webDriver.findElement(By.id("checkout-shipping-pickup(firstName")));
firstName.sendKeys( ...keysToSend: "Hena");
Thread.sleep( millis: 1000);

WebElement lastName = webDriver.findElement(By.id("checkout-shipping-pickup(lastName")));
lastName.sendKeys( ...keysToSend: "Potogija");
Thread.sleep( millis: 1000).

```



```

WebElement emailInput = webDriver.findElement(By.id("checkout-shipping-pickup_email"));
emailInput.sendKeys( ...keysToSend: "hena.potogija@stu.ibu.edu.ba");
Thread.sleep( millis: 1000);

WebElement phone = webDriver.findElement(By.id("checkout-shipping-pickup_phone"));
phone.sendKeys( ...keysToSend: "cdcds");
Thread.sleep( millis: 1000);

WebElement continueToPaymentButton = webDriver.findElement(
    By.xpath( xpathExpression: "//*[@id=\"checkout-shipping-pickup_submit\"]/span"));
Thread.sleep( millis: 200);
continueToPaymentButton.click();
Thread.sleep( millis: 1000);

WebElement errorMessage = wait.until(
    ExpectedConditions.elementToBeClickable(
        By.id("helperMessagecheckout-shipping-pickup_phone")));

assertEquals( expected: "Broj telefona nije ispravan", errorMessage.getText());
}

```

### 3.10. Guest User Session Handling

Making sure guest users have a smooth experience while protecting all elements that require authentication is the objective of the following test cases.

<b>Test Name:</b> Test that guest user does not see “Moj račun” element				
<b>Description:</b> Check that the guest user does not see an element that is located on a logged-in user’s home page named: “Moj račun”.				
<b>Pre-condition(s):</b>				
<b>Test Steps:</b> 1. Go to the home page 2. Close cookies popup 3. Attempt to access “Moj račun” element. 4. Check if the NoSuchElementException exception is thrown.	<b>Test Data:</b>	<b>Expected Result:</b> The NoSuchElementException exception is thrown.	<b>Actual Result:</b> The NoSuchElementException exception is thrown.	<b>Status:</b> <b>PASS</b>
<b>Notes:</b>				

<b>Test Steps:</b> 1. Go to the home page 2. Close cookies popup 3. Attempt to access “Moj račun” element. 4. Check if the NoSuchElementException exception is thrown.	<b>Test Data:</b>	<b>Expected Result:</b> The NoSuchElementException exception is thrown.	<b>Actual Result:</b> The NoSuchElementException exception is thrown.	<b>Status:</b> <b>PASS</b>
--	-------------------	--	--	-------------------------------



```

    @Test
    public void testGuestDoesNotSeeMojRacun() throws InterruptedException {
        webDriver.get(baseUrl);
        JavascriptExecutor js = (JavascriptExecutor) webDriver;
        webDriver.manage().timeouts().implicitlyWait(Duration.ofSeconds(7));

        WebElement closeCookies = webDriver.findElement(
            By.xpath("//*[@id='aria-desktop-menu']/div[3]/div/div/ul/li[3]/div/a"));
        js.executeScript("arguments[0].click()", closeCookies);
        Thread.sleep( millis: 5000);

        assertThrows(NoSuchElementException.class, () -> {
            WebElement loggedInMark = webDriver.findElement(
                By.xpath(xpathExpression: "//span[@aria-hidden='true' and @class='account-icon-desktop__label' and text()='Moj račun']"));
            assertEquals( expected: "Moj račun", loggedInMark.getText());
        });
    }
}

```

**Test Name:** Test that guest session contains the critical cookies

**Description:** Check that the guest user session contains ITXSESSIONID, FPC, and BSKSESSION cookies.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Close cookies popup 3. Get all cookies 4. Check that ITXSESSIONID cookie is present. 5. Check that FPC cookie is present. 6. Check that BSKSESSION cookie is present.		ITXSESSIONID, FPC, and BSKSESSION cookies are present in the guest user session.	ITXSESSIONID, FPC, and BSKSESSION cookies are present in the guest user session.	PASS

**Notes:**



```

@Test
public void testCriticalCookiesPresent() throws InterruptedException {
    webDriver.get(baseUrl);
    JavascriptExecutor js = (JavascriptExecutor) webDriver;
    webDriver.manage().timeouts().implicitlyWait(Duration.ofSeconds(7));

    WebElement closeCookies = webDriver.findElement(
        By.xpath(xpathExpression: "//*[@id=\"aria-desktop-menu\"]//div[3]/div/div/ul/li[3]/div/a"));
    js.executeScript(script: "arguments[0].click()", closeCookies);

    Thread.sleep(millis: 6000);
    Set<Cookie> cookies = webDriver.manage().getCookies();

    assertTrue(cookies.stream().anyMatch(cookie -> cookie.getName().equals("ITXSESSIONID")));
    assertTrue(cookies.stream().anyMatch(cookie -> cookie.getName().equals("FPC")));
    assertTrue(cookies.stream().anyMatch(cookie -> cookie.getName().equals("BSKSESSION")));
}

```

### 3.11. Social media navigation

Users want to be able to visit Bershka's social media by clicking on the social media icons in the footer of the page, to follow them or check out their pages.

<b>Test Name:</b> Test Instagram link referral icon				
<b>Description:</b> Check if the Instagram icon leads to Bershka's Instagram page				
<b>Pre-condition(s):</b>				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Find and click the Instagram icon in the footer. 3. Switch the webDriver to opened window 3. Check that the opened URL is <a href="https://www.instagram.com/bershka/">https://www.instagram.com/bershka/</a> 4. Return to the home page and switch the webDriver back to the home page window		The user is taken to the Instagram Bershka profile in the new window.	The user is taken to the Instagram Bershka profile in the new window.	PASS
<b>Notes:</b>				



```

@Order(1)
@Test
void Instagram() throws InterruptedException {
    JavascriptExecutor js = (JavascriptExecutor) webDriver;
    webDriver.get(baseUrl);
    Thread.sleep( millis: 5000);

    //Instagram
    WebElement instagram = webDriver.findElement(By.xpath( xpathExpression: */html/body/div[2]/div[1]/div[1]/div[7]/footer[1]/div[1]/div[1]/div[5]/ul[1]/li[1]/a[1]*));
    js.executeScript( script: "arguments[0].click()", instagram);
    Thread.sleep( millis: 3000);

    String currentWindowHandle = webDriver.getWindowHandle();
    Set<String> windowHandles = webDriver.getWindowHandles();
    for (String windowHandle : windowHandles) {
        if (!windowHandle.equals(currentWindowHandle)) {
            webDriver.switchTo().window(windowHandle);
            break;
        }
    }

    assertEquals( expected: "https://www.instagram.com/bershka/", webDriver.getCurrentUrl());
    webDriver.close();
    webDriver.switchTo().window(currentWindowHandle);
    Thread.sleep( millis: 2000);
}

```

**Test Name:** Test Facebook link referral icon**Description:** Check if the Facebook icon leads to Bersha's Facebook page**Pre-condition(s):**

<b>Test Steps:</b>	<b>Test Data:</b>	<b>Expected Result:</b>	<b>Actual Result:</b>	<b>Status:</b>
<p>1. Go to the home page</p> <p>2. Find and click the Facebook icon in the footer.</p> <p>3. Switch the webDriver to opened window</p> <p>3. Check that the opened URL is <a href="https://www.facebook.com/bershka">https://www.facebook.com/bershka</a></p> <p>4. Return to the home page and switch the webDriver back to the home page window</p>		The user is taken to the Facebook Bershka profile in the new window.	The user is taken to the Facebook Bershka profile in the new window.	PASS

**Notes:**

```

@Test
void Facebook() throws InterruptedException {
    JavascriptExecutor js = (JavascriptExecutor) webDriver;
    Thread.sleep( millis: 5000 );
    //Facebook
    WebElement facebook = webDriver.findElement(By.xpath( xpathExpression: */html/body/div[2]/div[1]/div[1]/div[?]/footer[1]/div[1]/div[1]/div[5]/ul[1]/li[2]/a[1]*));
    js.executeScript( script: "arguments[0].click()", facebook );
    Thread.sleep( millis: 3000 );

    String currentWindowHandle = webDriver.getWindowHandle();
    Set<String> windowHandles = webDriver.getWindowHandles();
    for (String windowHandle : windowHandles) {
        if (!windowHandle.equals(currentWindowHandle)) {
            webDriver.switchTo().window(windowHandle);
            break;
        }
    }

    assertEquals( expected: "https://www.facebook.com/bershka", webDriver.getCurrentUrl());
    webDriver.close();
    webDriver.switchTo().window(currentWindowHandle);
    Thread.sleep( millis: 2000 );
}

@Test
void Twitter() throws InterruptedException {
    Thread.sleep( millis: 5000 );
}

```

### Test Name: Test Twitter link referral icon

Description: Check if the Twitter icon leads to Bersha's Twitter page

#### Pre-condition(s):

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<p>1. Go to the home page</p> <p>2. Find and click the Twitter icon in the footer.</p> <p>3. Switch the webDriver to opened window</p> <p>3. Check that the opened URL is <a href="https://x.com/bershka">https://x.com/bershka</a></p> <p>4. Return to the home page and switch the webDriver back to the home page window</p>		The user is taken to the Twitter Bershka profile in the new window.	The user is taken to the Twitter Bershka profile in the new window.	PASS

#### Notes:

```

    @Test
    void Twitter() throws InterruptedException {
        Thread.sleep( millis: 5000 );
        JavascriptExecutor js = (JavascriptExecutor) webDriver;
        //Twitter
        WebElement twitter = webDriver.findElement(By.xpath( xpathExpression: "/html/body/div[2]/div[1]/div[1]/div[7]/footer[1]/div[1]/div[1]/div[5]/ul[1]/li[3]/a[1]" ));
        js.executeScript( script: "arguments[0].click()", twitter );
        Thread.sleep( millis: 3000 );

        String currentWindowHandle = webDriver.getWindowHandle();
        Set<String> windowHandles = webDriver.getWindowHandles();
        for ( String windowHandle : windowHandles ) {
            if ( !windowHandle.equals(currentWindowHandle) ) {
                webDriver.switchTo().window(windowHandle);
                break;
            }
        }

        assertEquals( expected: "https://x.com/bershka?mx=2", webDriver.getCurrentUrl());
        webDriver.close();
        webDriver.switchTo().window(currentWindowHandle);
        Thread.sleep( millis: 2000 );
    }
}

```

**Test Name:** Test TikTok link referral icon

**Description:** Check if the TikTok icon leads to Bershka's TikTok page

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<p>1. Go to the home page</p> <p>2. Find and click the TikTok icon in the footer.</p> <p>3. Switch the webDriver to opened window</p> <p>3. Check that the opened URL is <a href="https://www.tiktok.com/@bershka">https://www.tiktok.com/@bershka</a></p> <p>4. Return to the home page and switch the webDriver back to the home page window</p>		The user is taken to the TikTok Bershka profile in the new window.	The user is taken to the TikTok Bershka profile in the new window.	PASS

**Notes:**

```

    @Test
    void Tiktok() throws InterruptedException {
        Thread.sleep( millis: 5000 );
        JavascriptExecutor js = (JavascriptExecutor) webDriver];
        //Tiktok
        WebElement tiktok = webDriver.findElement(By.xpath( xpathExpression: "/html/body/div[2]/div[1]/div[7]/footer[1]/div[1]/div[5]/ul[1]/li[4]/a[1]*"));
        js.executeScript( script: "arguments[0].click()", tiktok);
        Thread.sleep( millis: 3000);

        String currentWindowHandle = webDriver.getWindowHandle();
        Set<String> windowHandles = webDriver.getWindowHandles();
        for (String windowHandle : windowHandles) {
            if (!windowHandle.equals(currentWindowHandle)) {
                webDriver.switchTo().window(windowHandle);
                break;
            }
        }
        assertEquals( expected: "https://www.tiktok.com/@bershka", webDriver.getCurrentUrl());
        webDriver.close();
        webDriver.switchTo().window(currentWindowHandle);
        Thread.sleep( millis: 2000);
    }
}

```

**Test Name:** Test Snapchat link referral icon

**Description:** Check if the Snapchat icon leads to Bersha's Snapchat page

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<p>1. Go to the home page</p> <p>2. Find and click the Snapchat icon in the footer.</p> <p>3. Switch the webDriver to opened window</p> <p>3. Check that the opened URL is  <a href="https://www.snapchat.com/add/bershkaofficial">https://www.snapchat.com/add/bershkaofficial</a></p> <p>4. Return to the home page and switch the webDriver back to the home page window</p>		The user is taken to the Snapchat Bershka profile in the new window.	The user is taken to the Snapchat Bershka profile in the new window.	PASS

**Notes:**



```

@Test
void Snapchat() throws InterruptedException {
    Thread.sleep( millis: 5000);
    JavascriptExecutor js = (JavascriptExecutor) webDriver;
    //Snapchat
    WebElement snapchat = webDriver.findElement(By.xpath( xpathExpression: */html/body/div[2]/div[1]/div[1]/div[7]/footer[1]/div[1]/div[1]/div[5]/ul[1]/li[5]/a[1]*));
    js.executeScript( script: "arguments[0].click()", snapchat);
    Thread.sleep( millis: 3000);

    String currentWindowHandle = webDriver.getWindowHandle();
    Set<String> windowHandles = webDriver.getWindowHandles();
    for (String windowHandle : windowHandles) {
        if (!windowHandle.equals(currentWindowHandle)) {
            webDriver.switchTo().window(windowHandle);
            break;
        }
    }

    assertEquals( expected: "https://www.snapchat.com/add/bershkaofficial", webDriver.getCurrentUrl());
    webDriver.close();
    webDriver.switchTo().window(currentWindowHandle);
    Thread.sleep( millis: 2000);
}

```

**Test Name:** Test Youtube link referral icon**Description:** Check if the Youtube icon leads to Bersha's Youtube page**Pre-condition(s):**

<b>Test Steps:</b>	<b>Test Data:</b>	<b>Expected Result:</b>	<b>Actual Result:</b>	<b>Status:</b>
<p>1. Go to the home page</p> <p>2. Find and click the Youtube icon in the footer.</p> <p>3. Switch the webDriver to opened window</p> <p>3. Check that the opened URL is <a href="https://www.youtube.com/@bershka">https://www.youtube.com/@bershka</a></p> <p>4. Return to the home page and switch the webDriver back to the home page window</p>		The user is taken to the Youtube Bershka profile in the new window.	The user is taken to the Youtube Bershka profile in the new window.	PASS

**Notes:**



```

    @Test
    void Youtube() throws InterruptedException {
        Thread.sleep( millis: 5000 );
        JavascriptExecutor js = (JavascriptExecutor) webDriver;
        //Youtube
        WebElement youtube = webDriver.findElement(By.xpath( xpathExpression: "/html/body/div[2]/div[1]/div[1]/div[7]/footer[1]/div[1]/div[1]/div[5]/ul[1]/li[6]/a[1]*"));
        js.executeScript( script: "arguments[0].click()", youtube);
        Thread.sleep( millis: 3000 );

        String currentWindowHandle = webDriver.getWindowHandle();
        Set<String> windowHandles = webDriver.getWindowHandles();
        for (String windowHandle : windowHandles) {
            if (!windowHandle.equals(currentWindowHandle)) {
                webDriver.switchTo().window(windowHandle);
                break;
            }
        }

        assertEquals( expected: "https://www.youtube.com/@bershka", webDriver.getCurrentUrl());
        webDriver.close();
        webDriver.switchTo().window(currentWindowHandle);
        Thread.sleep( millis: 2000 );
    }
}

```

**Test Name:** Test Pinterest link referral icon**Description:** Check if the Pinterest icon leads to Bersha's Pinterest page**Pre-condition(s):**

<b>Test Steps:</b>	<b>Test Data:</b>	<b>Expected Result:</b>	<b>Actual Result:</b>	<b>Status:</b>
<p>1. Go to the home page</p> <p>2. Find and click the Pinterest icon in the footer.</p> <p>3. Switch the webDriver to opened window</p> <p>3. Check that the opened URL is <a href="https://www.pinterest.com/bershka/">https://www.pinterest.com/bershka/</a></p> <p>4. Return to the home page and switch the webDriver back to the home page window</p>		The user is taken to the Pinterest Bershka profile in the new window.	The user is taken to the Pinterest Bershka profile in the new window.	PASS

**Notes:**



```

    @Test
    void Pinterest() throws InterruptedException {
        Thread.sleep( millis: 5000 );
        JavascriptExecutor js = (JavascriptExecutor) webDriver;
        //Pinterest
        WebElement pinterest = webDriver.findElement(By.xpath( xpathExpression: "/html/body/div[2]/div[1]/div[1]/div[7]/footer[1]/div[1]/div[5]/ul[1]/li[7]/a[1]" ));
        js.executeScript( script: "arguments[0].click()", pinterest );
        Thread.sleep( millis: 3000 );

        String currentWindowHandle = webDriver.getWindowHandle();
        Set<String> windowHandles = webDriver.getWindowHandles();
        for (String windowHandle : windowHandles) {
            if (!windowHandle.equals(currentWindowHandle)) {
                webDriver.switchTo().window(windowHandle);
                break;
            }
        }

        assertEquals( expected: "https://www.pinterest.com/bershka/", webDriver.getCurrentUrl());
        webDriver.close();
        webDriver.switchTo().window(currentWindowHandle);
        Thread.sleep( millis: 2000 );
    }
}

```

**Test Name:** Test Spotify link referral icon**Description:** Check if the Spotify icon leads to Bersha's Spotify page**Pre-condition(s):**

<b>Test Steps:</b>	<b>Test Data:</b>	<b>Expected Result:</b>	<b>Actual Result:</b>	<b>Status:</b>
<p>1. Go to the home page</p> <p>2. Find and click the Spotify icon in the footer.</p> <p>3. Switch the webDriver to opened window</p> <p>3. Check that the opened URL is <a href="https://open.spotify.com/user/bershka">https://open.spotify.com/user/bershka</a></p> <p>4. Return to the home page and switch the webDriver back to the home page window</p>		The user is taken to the Spotify Bershka profile in the new window.	The user is taken to the Spotify Bershka profile in the new window.	PASS

**Notes:**



```

    @Test
    void Spotify() throws InterruptedException {
        Thread.sleep( millis: 5000 );
        JavascriptExecutor js = (JavascriptExecutor) webDriver;
        //Spotify
        WebElement spotify = webDriver.findElement(By.xpath( xpathExpression: "/html/body/div[2]/div[1]/div[1]/div[7]/footer[1]/div[1]/div[1]/div[5]/ul[1]/li[8]/a[1]" ));
        js.executeScript( script: "arguments[0].click()", spotify );
        Thread.sleep( millis: 3000 );

        String currentWindowHandle = webDriver.getWindowHandle();
        Set<String> windowHandles = webDriver.getWindowHandles();
        for (String windowHandle : windowHandles) {
            if (!windowHandle.equals(currentWindowHandle)) {
                webDriver.switchTo().window(windowHandle);
                break;
            }
        }

        assertEquals( expected: "https://open.spotify.com/user/bershka", webDriver.getCurrentUrl());
        webDriver.close();
        webDriver.switchTo().window(currentWindowHandle);
        Thread.sleep( millis: 2000 );
    }
}

```

### 3.12. Managing subscription

Users want to be able to subscribe and unsubscribe from Bershka newsletter over the webpage.

Test Name: Test bad signup credentials for the discount				
Description: Check if signing up for a discount with badly formatted email and date of birth results in a validation message.				
Pre-condition(s):				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Close cookies popup 3. Click on the button named “Pretplati se”. 4. Enter email: bademail 5. Enter date of birth: badDOB 6. Click on “Žena” radio button 7. Click on agreement with privacy policy checkbox. 8. Review and close privacy policy popup. 9. Click on the form submit button. 10. Check that the form	Email: bademail  DOB: badDOB  Gender radio button: 'F'  Privacy policy checkbox: true	The form is not submitted as there is an error validation message displayed that says: "Format e-pošte nije valjan"	The form is not submitted as there is an error validation message displayed that says: "Format e-pošte nije valjan".	PASS



wasn't submitted as there is an error validation message when it comes to email.

### Notes:

```

    @Test
    void discountSignupBadEmailBadDOB() throws InterruptedException {
        webDriver.get(baseUrl);
        WebElement closeCookies = webDriver.findElement(By.xpath("//div[@id='onetrust-close-btn-container']/button"));
        JavascriptExecutor js = (JavascriptExecutor) webDriver;
        js.executeScript("arguments[0].click()", closeCookies);
        Thread.sleep( millis: 5000 );

        WebElement discoverButton = webDriver.findElement(By.xpath("//a[@href='/hr/newsletter.html?origin=footer_web']"));
        js.executeScript("arguments[0].scrollIntoView(true);", discoverButton);
        Thread.sleep( millis: 500 );
        js.executeScript("arguments[0].click()", discoverButton);
        Thread.sleep( millis: 3000 );

        WebElement emailInput = webDriver.findElement(By.id("newsletter-subscription_email"));
        emailInput.sendKeys( ...keysToSend: "bademail" );
        Thread.sleep( millis: 1000 );

        WebElement dobInput = webDriver.findElement(By.id("newsletter-subscription_birthdate"));
        dobInput.sendKeys( ...keysToSend: "badDOB" );
        Thread.sleep( millis: 1000 );

        WebElement femaleRadioButton = webDriver.findElement(By.id("zena"));
        femaleRadioButton.click();

        // VisitTheHomePageTest.discountSignupBadEmailBadDOB ×
        WebElement femaleRadioButton = webDriver.findElement(By.id("zena"));
        femaleRadioButton.click();
        Thread.sleep( millis: 1000 );

        WebElement acceptPolicyInput = webDriver.findElement(By.xpath(
            ( xpathExpression: "//*[@id=\\"newsletter-subscription\\"]/div[2]/fieldset/div[7]/div/div/label") );
        Thread.sleep( millis: 200 );
        acceptPolicyInput.click();
        Thread.sleep( millis: 2000 );

        WebElement closePolicyView = webDriver.findElement(By.xpath(
            ( xpathExpression: "//*[@id=\\"aria-modal-StaticContentModal\\"]/div/button" ) );
        Thread.sleep( millis: 200 );
        closePolicyView.click();
        Thread.sleep( millis: 2000 );

        WebElement submitButton = webDriver.findElement(By.xpath( xpathExpression: "//*[@id=\\"newsletter-subscription_submit\\"]/span" ) );
        Thread.sleep( millis: 200 );
        submitButton.click();
        Thread.sleep( millis: 2000 );

        WebElement errorMessage = webDriver.findElement(By.id("helperMessageNewsletter-subscription_email"));
        assertEquals( expected: "Format e-pošte nije valjan", errorMessage.getText());
    }
}

```

**Test Name:** Test signup for a discount with good credentials

**Description:** Check if signing up for a discount with a good email format, but a badly formatted date of birth results in a validation message.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<p>1. Go to the home page</p> <p>2. Click on the Subscribe button</p> <p>4. Enter email: <a href="mailto:anja.sehovac@stu.ibu.edu.ba">anja.sehovac@stu.ibu.edu.ba</a></p> <p>5. Enter date of birth: 12/06</p> <p>6. Click on "Žena" radio button</p> <p>7. Click on agreement with privacy policy checkbox.</p> <p>8. Review and close privacy policy popup.</p> <p>9. Click on the form submit button.</p> <p>10. Check that home page has the pop up confirming the subscription visible.</p>	<p>Email: <a href="mailto:anja.sehovac@stu.ibu.edu.ba">anja.sehovac@stu.ibu.edu.ba</a></p> <p>DOB: 1206</p> <p>Gender radio button: 'Žena'</p> <p>Privacy policy checkbox: true</p>	The Pop up confirming subscription is visible.	The Pop up confirming subscription is visible.	PASS

**Notes:**

```

@Order(1)
@Test
void Subscribe() throws InterruptedException {
    JavascriptExecutor js = (JavascriptExecutor) webDriver;
    webDriver.get(baseUrl);
    Thread.sleep( millis: 5000);

    //Instagram
    WebElement instagram = webDriver.findElement(By.xpath( xpathExpression: */html/body/div[2]/div[1]/div[2]/main[1]/div[1]/div[1]/section[1]/div[1]/a[1]*));
    js.executeScript( script: "arguments[0].click()", instagram);
    Thread.sleep( millis: 3000);

    WebElement email = webDriver.findElement(By.id("newsletter-subscription_email"));
    WebElement date = webDriver.findElement(By.id("newsletter-subscription_birthdate"));
    WebElement gender = webDriver.findElement(By.id("zena"));
    WebElement privacy = webDriver.findElement(By.xpath( xpathExpression: */html/body/div[2]/div[1]/div[2]/main[1]/div[1]/div[1]/section[1]/form[1]/div[2]/fieldset[*]/*));
    email.sendKeys( ...keysToSend: "anja.sehovac@stu.ibu.edu.ba");
    date.sendKeys( ...keysToSend: "1200");
    gender.click();
    privacy.click();
    Thread.sleep( millis: 1000);
    WebElement close = webDriver.findElement(By.xpath( xpathExpression: */html/body/div[2]/div[1]/div[1]/div[5]/div[1]/button[1]*));
    close.click();
    Thread.sleep( millis: 1000);

    WebElement submit = webDriver.findElement(By.id("newsletter-subscription_submit"));
    submit.click();
    Thread.sleep( millis: 3000);

    assertTrue(webDriver.getPageSource().contains("<div aria-live=\\\"assertive\\\" class=\\\"notification-wrapper\\\" role=\\\"dialog\\\" aria-modal=\\\"true\\\" aria-hidden=\\\"false\\\" aria-exp"));

    Thread.sleep( millis: 2000);
}

```

### Test Name: Unsubscribe with a subscribed email

**Description:** Check if unsubscribing with a subscribed email will cancel the subscription..

#### Pre-condition(s):

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Click on the Unsubscribe button 4. Enter email: <a href="mailto:anja.sehovac@stu.ibu.edu.ba">anja.sehovac@stu.ibu.edu.ba</a> 9. Click on the form submit button. 10. Check that home page has the pop up confirming the unsubscription is visible.	<b>Email:</b> <a href="mailto:anja.sehovac@stu.ibu.edu.ba">anja.sehovac@stu.ibu.edu.ba</a>	The Pop up confirming subscription is visible.	The Pop up confirming subscription is visible.	PASS

**Notes:**

```

@Order(2)
@Test
void Unsubscribe() throws InterruptedException {
    JavascriptExecutor js = (JavascriptExecutor) webDriver;
    //webDriver.get(baseUrl);

    Thread.sleep(3000);
    WebElement unsub = webDriver.findElement(By.xpath("//*[@html/body/div[2]/div[1]/div[1]/div[7]/footer[1]/div[1]/div[1]/div[2]/ul[1]/li[8]/button[1]"));
    unsub.click();
    Thread.sleep(2000);
    WebElement email = webDriver.findElement(By.id("newsletter-unsubscribe_email"));
    email.sendKeys("anja.sehovac@stu.ibu.edu.ba");
    Thread.sleep(1000);
    WebElement submit = webDriver.findElement(By.id("newsletter-unsubscribe_submit"));
    submit.click();
    Thread.sleep(3000);
    WebElement close = webDriver.findElement(By.xpath("//*[@html/body/div[2]/div[1]/div[1]/div[3]/div[2]/div[1]/div[1]/section[1]/div[2]/button[1]"));
    assertTrue(close.isDisplayed());
}

```

**Test Name:** Unsubscribe with an unsubscribed email**Description:** Check if unsubscribing with a subscribed email will cancel the subscription..**Pre-condition(s):**

<b>Test Steps:</b>	<b>Test Data:</b>	<b>Expected Result:</b>	<b>Actual Result:</b>	<b>Status:</b>
<p>1. Go to the home page</p> <p>2. Click on the Unsubscribe button</p> <p>4. Enter email: <a href="mailto:anja.sehovac03@stu.ibu.edu.ba">anja.sehovac03@stu.ibu.edu.ba</a></p> <p>9. Click on the form submit button.</p> <p>10. Check if home page has the pop up confirming the unsubscription is visible or if there is an error message</p>	Email: <a href="mailto:anja.sehovac@stu.ibu.edu.ba">anja.sehovac@stu.ibu.edu.ba</a>	There is an error message and pop up of confirmation is not visible.	The Pop up confirming subscription is visible.	FAIL

**Notes:**

```

@Test
void UnsubscribeFalse() throws InterruptedException {
    JavascriptExecutor js = (JavascriptExecutor) webDriver;
    //webDriver.get(baseUrl);

    Thread.sleep( millis: 3000 );
    WebElement unsub = webDriver.findElement(By.xpath( xpathExpression: "/html/body/div[2]/div[1]/div[1]/div[7]/footer[1]/div[1]/div[1]/div[2]/ul[1]/li[8]/button[1]" ));
    unsub.click();
    Thread.sleep( millis: 2000 );
    WebElement email = webDriver.findElement(By.id("newsletter-unsubscribe_email"));
    email.sendKeys( ...keysToSend: "anjana.senovac03@gmail.com" );
    Thread.sleep( millis: 1000 );
    WebElement submit = webDriver.findElement(By.id("newsletter-unsubscribe_submit"));
    submit.click();
    Thread.sleep( millis: 3000 );
    WebElement close = webDriver.findElement(By.xpath( xpathExpression: "/html/body/div[2]/div[1]/div[3]/div[2]/div[1]/div[1]/section[1]/div[2]/button[1]" ));
    assertFalse(close.isDisplayed());
}

```

### 3.13. Managing wishlist

Users want to be able to save products they like but don't want to buy yet into a wishlist.

<b>Test Name:</b> Test adding and removing to wishlist from overview				
<b>Description:</b> Check if adding and removing items through the icon next to each item in the overview works				
<b>Pre-condition(s):</b>				
<b>Test Steps:</b>  1. Go to the shirts 2. Add a shirt from overview to wishlist 3. Check if the heart icon has changed indicating item has been added 4. Unadd the shirt 5. Check if the icon changed accordingly.	<b>Test Data:</b>	<b>Expected Result:</b> Icon changes accordingly indicating adding and removing.	<b>Actual Result:</b> Icon changes accordingly indicating adding and removing.	<b>Status:</b> PASS
<b>Notes:</b>				

<b>Test Name:</b> Test adding and removing to wishlist from item details				
<b>Description:</b> Check if adding and removing items through the icon in the item details works				
<b>Pre-condition(s):</b>				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
<ol style="list-style-type: none"><li>1. Go to the shirts</li><li>2. Go to a specific shirt page</li><li>3. Add a shirt from details to wishlist</li><li>4. Check if the heart icon has changed indicating item has been added</li><li>5. Unadd the shirt</li><li>6. Check if the icon changed accordingly.</li></ol>		Icon changes accordingly indicating adding and removing.	Icon changes accordingly indicating adding and removing.	PASS
Notes:				

```
@Test
void addAndRemoveFromDetails() throws InterruptedException {
    JavascriptExecutor js = (JavascriptExecutor) webDriver;
    WebDriverWait wait = new WebDriverWait(webDriver, Duration.ofSeconds(10));
    webDriver.get(baseUrl);
    Thread.sleep( millis: 5000 );
    js.executeScript( script: "window.scrollBy(0, 300);");
    WebElement shirtLink = wait.until(
        ExpectedConditions.elementToBeClickable(
            By.xpath( xpathExpression: "//a[@class='grid-card-link' and @data-qa-anchor='productItemHref']")));
    shirtLink.click();
    Thread.sleep( millis: 3000 );
    WebElement heart = wait.until(
        ExpectedConditions.elementToBeClickable(
            By.xpath( xpathExpression: "/html/body/div[2]/div[1]/div[1]/div[2]/main[1]/div[1]/section[1]/div[1]/div[1]/div[1]/div[1]/div[1]")));
    heart.click();
    Thread.sleep( millis: 1000 );
    assertTrue(webDriver.getPageSource().contains("<button class=\"bds-button bds-button-icon round-wish-list-button wish-list-button\""));
    heart.click();
    Thread.sleep( millis: 1000 );
    assertTrue(webDriver.getPageSource().contains("<button class=\"bds-button bds-button-icon round-wish-list-button wish-list-button\""));
    Thread.sleep( millis: 1000 );
    webDriver.navigate().to(baseUrl);
}
```

<b>Test Name:</b> Test wishlist and removing from wishlist page				
<b>Description:</b> Check if adding and removing items through the icon next to each item in the overview works				
<b>Pre-condition(s):</b>				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the shirts 2. Add a shirt from overview to wishlist 3. Check if the heart icon has changed indicating item has been added 4. Unadd the shirt 5. Check if the icon changed accordingly.		Icon changes accordingly indicating adding and removing.	Icon changes accordingly indicating adding and removing.	PASS
Notes:				

### 3.14. Managing preferences

Users want to be able to change their language, location and cookie preferences.

<b>Test Name:</b> Change location and language				
<b>Description:</b> Check if location and language change works and if the language is really changed				
<b>Pre-condition(s):</b>				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Go to Location/Language button at the bottom 3. Change country to Bosnia by searching with “bos” input 4. Change language to English 5. Submit 6. Check new page language	Country: “bos”  Language: “ENG”	Language and country changed accordingly.	Language and country changed accordingly.	PASS
Notes:				

```

@Test
void languageAndPlace() throws InterruptedException {
    JavascriptExecutor js = (JavascriptExecutor) webDriver;
    webDriver.get(baseUrl);
    Thread.sleep( millis: 4000 );
    WebElement button = webDriver.findElement(By.xpath( xpathExpression: */html/body/div[2]/div[1]/div[7]/footer[1]/div[1]/div[2]/div[2]/div[1]/button[1]*));
    button.click();
    Thread.sleep( millis: 2000 );
    WebElement selectbtn = webDriver.findElement(By.xpath( xpathExpression: */html/body/div[2]/div[1]/div[8]/div[2]/div[1]/div[1]/div[1]/button[1]*));
    selectbtn.click();
    Thread.sleep( millis: 2000 );
    WebElement input = webDriver.findElement(By.id("input-search"));
    input.sendKeys( ...keysToSend: "bos" );
    Thread.sleep( millis: 500 );
    WebElement option = webDriver.findElement(By.xpath( xpathExpression: */html/body/div[2]/div[1]/div[8]/div[2]/div[1]/div[1]/div[2]/div[2]/ul[1]/li[1]*));
    option.click();
    Thread.sleep( millis: 2000 );
    WebElement eng = webDriver.findElement(By.xpath( xpathExpression: */html/body/div[2]/div[1]/div[8]/div[2]/div[1]/div[2]/label[1]*));

    WebElement label = webDriver.findElement(By.xpath( xpathExpression: */html/body/div[2]/div[1]/div[1]/div[8]/div[2]/div[1]/div[1]/button[1]/span[1]/span[2]*));
    eng.click();
    Thread.sleep( millis: 2000 );
    assertTrue(webDriver.getPageSource().contains("<label for=\\"en\\" tabindex=\\"0\\" class=\\"country-language-item selected\\><span class=\\"country-language-link\\>en</span></label>"));
    assertEquals( expected: "Bosnia and Herzegovina", label.getText() );

    WebElement saveBtn = webDriver.findElement(By.xpath( xpathExpression: */html/body/div[2]/div[1]/div[1]/div[8]/div[2]/div[2]/div[3]/button[1]*));
    saveBtn.click();
    Thread.sleep( millis: 6000 );
    assertTrue(webDriver.getPageSource().contains("div id=\\"INDWrap\\" lang=\\"en\\""));
}
}

```

**Test Name:** Change cookie preferences

**Description:** Check if cookie preferences really change when set

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Go to Set cookies button at the bottom 3. Switch off all cookies that are optional 4. Check if settings stayed when reloaded	Functional cookies: OFF  Analysis cookies: OFF  Advertisement cookies: OFF	Cookies were turned off.	Cookies were turned off.	PASS

**Notes:**



```

    @Test
    void cookiePreferences() throws InterruptedException {
        JavascriptExecutor js = (JavascriptExecutor) webDriver;
        webDriver.get(baseUrl);
        Thread.sleep( millis: 4000 );
        WebElement button = webDriver.findElement(By.xpath( xpathExpression: */html/body/div[2]/div[1]/div[1]/div[7]/footer[1]/div[1]/div[2]/div[1]/ul[1]/li[5]/span[1]/button[1]*));
        button.click();
        Thread.sleep( millis: 2000 );

        WebElement firstPref = webDriver.findElement(By.xpath( xpathExpression: */span[@class='ot-switch-nob']*));

        WebElement secondPref = webDriver.findElement(RelativeLocator.with(By.xpath( xpathExpression: */span[@class='ot-switch-nob']*)).below(firstPref));
        WebElement thirdPref = webDriver.findElement(RelativeLocator.with(By.xpath( xpathExpression: */span[@class='ot-switch-nob']*)).below(secondPref));

        firstPref.click();
        secondPref.click();
        thirdPref.click();
        Thread.sleep( millis: 2000 );

        WebElement submit = webDriver.findElement(By.xpath( xpathExpression: */button[@class='save-preference-btn-handler onetrust-close-btn-handler']*));
        submit.click();
        Thread.sleep( millis: 2000 );

        WebElement button2 = webDriver.findElement(By.xpath( xpathExpression: */html/body/div[2]/div[1]/div[1]/div[7]/footer[1]/div[1]/div[2]/div[1]/ul[1]/li[5]/span[1]/button[1]*));
        button2.click();
        Thread.sleep( millis: 2000 );
        assertTrue(webDriver.getPageSource().contains("<input type='checkbox' name='ot-group-id-C0003' id='ot-group-id-C0003' aria-checked='false' role='switch' class='ot-switch-nob'"));
        assertTrue(webDriver.getPageSource().contains("<input type='checkbox' name='ot-group-id-C0003' id='ot-group-id-C0003' aria-checked='false'"));
    }
}

```

### 3.15. Responsiveness testing

E-commerce websites are accessed using many different devices using many different screen dimensions, font sizes, etc. Users want to have a good user experience regardless of the device they are using.

**Test Name:** Test if main section menu is visible on Iphone X

**Description:** Open the homepage and check if the Men's, Women's and Teen's section menu is visible on Iphone X.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page with browser screen size of Iphone X 2. Check if the main section menu is visible.		The main section menu is visible.	The main section menu is visible.	PASS

**Notes:**



```

@Test
void testIPhoneXResolutionViewMainSectionMenu() {
    webDriver.manage().window().setSize(new Dimension(width: 375, height: 812));
    webDriver.get(baseUrl);
    webDriver.manage().timeouts().implicitlyWait(Duration.ofSeconds(7));

    WebElement menuButton = webDriver.findElement(By.cssSelector(".menu-desktop__nav"));
    assertTrue(menuButton.isDisplayed());
}

```

**Test Name:** Test if search button is visible on IPad Tablet

**Description:** Open the homepage and check if the search button “Pretraži” is visible on IPad Tablet.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page with browser screen size of Ipad Tablet 2. Check if the search button named “Pretraži” is visible.		The search button named “Pretraži” is visible.	The search button named “Pretraži” is visible.	PASS

**Notes:**

```

@Test
void testIPhoneXResolutionViewMainSectionMenu() {
    webDriver.manage().window().setSize(new Dimension(width: 375, height: 812));
    webDriver.get(baseUrl);
    webDriver.manage().timeouts().implicitlyWait(Duration.ofSeconds(7));

    WebElement menuButton = webDriver.findElement(By.cssSelector(".menu-desktop__nav"));
    assertTrue(menuButton.isDisplayed());
}

```

**Test Name:** Test if header and footer are visible on fullscreen desktop

**Description:** Open the homepage and check if the header and footer are visible on fullscreen desktop.

**Pre-condition(s):**

Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
-------------	------------	------------------	----------------	---------



1. Go to the home page with browser screen size of Ipad Tablet 2. Check if the header is visible. 3. Check if the footer is visible.		Header and footer are visible.	Header and footer are visible.	PASS
--	--	--------------------------------	--------------------------------	------

**Notes:**

```

    @Test
    void testDesktopViewFullHeaderAndFooter() throws InterruptedException {
        webDriver.manage().window().maximize();
        webDriver.get(baseUrl);
        webDriver.manage().timeouts().implicitlyWait(Duration.ofSeconds(7));

        WebElement header = webDriver.findElement(By.xpath( xpathExpression: "//*[@id=\"main-container\"]/div[2]/header"));
        WebElement footer = webDriver.findElement(By.xpath( xpathExpression: "//footer[@data-js-selector='footer']"));
        Thread.sleep( millis: 2000);

        assertTrue(header.isDisplayed());
        assertTrue(footer.isDisplayed());
    }
}

```

## 9. Conclusion

### 9.1. Testing Summary

Summary of all executed tests:

Testing Tool	Total Tests	Passed Tests	Failed Tests
IntelliJ IDE was used as the environment with Maven as a dependency management tool. We used Selenium to automate all of our tests with JUnit assertions in Java programming language.	53	51	<p>2</p> <p><a href="#">Test logging in with a good email and password</a></p> <p><a href="#">Unsubscribe with an unsubscribed email</a></p>

### 9.2. Final Thoughts

Bershka's website is well-made overall, but it is not completely bug free. While we were testing the website we encountered some images that weren't fully rendered, but the biggest drawbacks are the failed tests linked in the table above. The fact that the pop up for successfully unsubscribing pops up for an email that isn't even subscribed is not

good. An alert saying that you cannot unsubscribe from an email that is not subscribed should replace the current alert in this case. Furthermore, the log-in feature is not suited for testing and even with stealth selenium it was not possible to make it work, however it is important to note that this is a feature that works outside of testing so the reasons behind it not being responsive in testing are unknown. This limitation prevented us from testing profile editing features. The webpage is usable and outside of testing, all its main features work seamlessly.