

## Registration Feature

one scenario is required

### Prepare your files:

your feature file will be:

```
src >> main >> resources >> features >> F01_Register.feature (Remember to add @smoke)
```

your step definition class will be:

```
src >> test >> java >> org.example >> stepDefs >> D01_registerStepDef
```

your class to apply pom design pattern in your project will be:

```
src >> test >> java >> org.example >> pages >> P01_register
```

### Description:

you need to create only one scenario in this feature file to verify that user could signup with valid account

### Feature File:

```
src >> main >> resources >> features >> F01_Register.feature
```

```
@smoke
```

```
Feature: F01_Register | users could register with new accounts
```

```
Scenario: guest user could register with valid data successfully
```

```
Step 1 user go to register page
```

```
Step 2 user select gender type
```

```
Step 3 user enter first name "automation" and last name "tester"
```

```
Step 4 user enter date of birth
```

```
Step 5 user enter email "test@example.com" field
```

```
Step 6 user fills Password fields "P@ssw0rd" "P@ssw0rd"
```

```
Step 7 user clicks on register button
```

```
Step 8 success message is displayed
```

Replace Steps with the appropriate Keywords (Given, When, Then, And)

for example, you will replace Step 1 with Given and Step 2 with When and so on

### Example on Step 1

\* open src >> test >> java >> org.example >> pages >> P01\_register

create WebElement method to register button

```
public WebElement registerlink()
{
    return Hooks.driver.findElement(By.cssSelector("a[class=\"ico-signUp\"]"));
}
```

\* open src >> test >> java >> org.example >> stepDefs >> D01\_registerStepDef

//Create new object from P01\_register

P01\_register register = new P01\_register();

@Given("user go to register page")

public void go\_to\_register()

```
{
    register.registerlink().click();
}
```

\* Follow same thing with all the remaining steps and don't forget to apply POM Design pattern on each step

\* In step 4

you should check if the birthdate lists are static or dynamic then decide if you will use Select class in Selenium to handle the dropdown list or not

\* In Step 8 (Assertions):

Use soft assertion to verify the following

- Success message is displayed "Your registration completed"
- the color of this message is green `rgba(76, 177, 124, 1)`

Note: we need to get the "color" not "background-color" using `getCssValue` command which is already explained in Selenium Commands Chapter

**Reviewers will check the following**

- 1- Student selects the correct Keywords in feature file
- 2- Student applied Select class to handle static dropdown lists
- 3- POM Design pattern is applied in step definition class correctly
- 4- Student applied Soft assertion as required for all scenarios

## Login Feature

2 scenarios are required

### Prepare your files:

your feature file will be:

src >> main >> resources >> features >> F02\_Login.feature (Remember to add @smoke)

your step definition class will be:

src >> test >> java >> org.example >> stepDefs >> D02\_loginStepDef

your class to apply pom design pattern in your project will be:

src >> test >> java >> org.example >> pages >> P02\_login

in your feature file write the following

@smoke

Feature: F02\_Login | users could use login functionality to use their accounts

Scenario: user could login with valid email and password

Step 1 user go to login page

Step 2 user login with "valid" "test@example.com" and "P@ssw0rd"

Step 3 user press on login button

Step 4 user login to the system successfully

Scenario: user could login with invalid email and password

Step 1 user go to login page

Step 2 user login with "invalid" "wrong@example.com" and "P@ssw0rd"

Step 3 user press on login button

Step 4 user could not login to the system

\* Replace Steps with the appropriate Keywords (Given, When, Then, And)

\* You should pass type, username, password values from feature file

### **What to assert exactly?**

#### **For Scenario 1**

Use soft assertion to verify the following

1- getCurrentUrl and verify it equals https://demo.nopcommerce.com/

2- "My account" tab isDisplayed

don't forget assertAll()

#### **For Scenario 2**

Use soft assertion to verify the following

1- error message contains "Login was unsuccessful."

2- the color of this message is red "#e4434b"

don't forget assertAll()

### **Notes:**

- the output of any color attribute is RGBA and could be converted to Hex value using this code

```
import org.openqa.selenium.support.Color;
```

```
Color.fromString("rgba(228, 67, 75, 1)").asHex();
```

```
//output will be #e4434b
```

### **Reviewers will check the following**

1- Student selects the correct Keywords in feature file

2- parameters are passed correctly from feature file

3- POM Design pattern is applied in step definition class correctly

4- Student applied Soft assertion as required for all scenarios

## Currencies Feature

one scenario is required

### Prepare your files:

your feature file will be:

src >> main >> resources >> features >> F03\_currencies.feature (Remember to add @smoke)

your step definition class will be:

src >> test >> java >> org.example >> stepDefs >> D03\_currenciesStepDef

your class to apply pom design pattern in your project will be:

src >> test >> java >> org.example >> pages >> P03\_homePage

### What you will learn?

The purpose of this scenario is to learn how to use findElements

### Steps:

1- Select Euro currency from the dropdown list on the top left of home page

2- Use hard assertion to verify Euro Symbol (€) is shown on the 4 products displayed in Home page

in this step you should create for loop

2.1- use findElements with get(i) method then use getText()

2.2- save the output inside variable

2.3- do hard assert to verify that the variable contains "€"

Note when applying POM Design with findElements >> you should make your method List<WebElement> not WebElement

**Remember:**

The difference between findElement & findElements commands

findElement            >>      click(), sendKeys(""), isDisplayed()

findElements    >>            size(), get(), isEmpty()

**Reviewers will check the following**

- 1- Student selects the correct Keywords in feature file
- 2- POM Design pattern is applied in step definition class correctly
  - 2.1- List<WebElement> method is used in POM Design Pattern
- 3- Student applies for loop correctly
- 4- Student applies Soft assertion as required for all scenarios

## Search Feature

2 scenarios are required

### Prepare your files:

your feature file will be:

src >> main >> resources >> features >> F04\_Search.feature (Remember to add @smoke)

your step definition class will be:

src >> test >> java >> org.example >> stepDefs >> D04\_searchStepDef

your class to apply pom design pattern in your project will be:

src >> test >> java >> org.example >> pages >> P03\_homePage

### What you should do?

You will learn how to apply Scenario Outline in cucumber

### Explanation:

Scenario outline basically replaces variable/keywords with the value from the table.

Each row in the table is considered to be a scenario.

Scenario Outline: Login functionality for a social networking site.

Given user navigates to Facebook

When I enter Username as "<username>" and Password as "<password>"

Then login should be unsuccessful

Examples:

username	password
----------	----------

Test1	Pass1
-------	-------

Test2	Pass2
-------	-------

Test3	Pass3
-------	-------



In this example, the scenario will run 3 times.

First Time will use Test1, Pass1 as inputs and Second time will be Test2, Pass2 and so on

Note: username & password are the variable name and not considered as one of the inputs

### Scenarios:

Scenario Outline 1      user could search using product name

Examples:      book, laptop, nike

Scenario Outline 2      user could search for product using sku

Examples:      SCI\_FAITH, APPLE\_CAM, SF\_PRO\_11

Note: sku means serial number of the product

for example open this link <https://demo.nopcommerce.com/apple-macbook-pro-13-inch> you will find sku is "AP\_MBP\_13"

### Scenario Outline 1

Use soft assertion to verify the following

- 1- url contains    <https://demo.nopcommerce.com/search?q=>
  - 2- search shows relevant results
    - 2.1- Count number of search results using findElements & size()
    - 2.2- Create for loop and verify each result contains the search word
- You should use toLowerCase() method

### Scenario Outline 2

- 1- search with sku    (You should pass parameter from Feature File in this step)
- 2- After searching, you need to click on the product in search result
- 3- Use hard assertion to verify the following
  - 3.1- get the sku shown in this page then make sure it contains the sku that you are using in search

**Reviewers will check the following**

- 1- Student selects the correct Keywords in feature file
- 2- Student uses scenario outline as explained
- 3- POM Design pattern is applied in step definition class correctly
  - 3.1- List<WebElement> method is used in POM Design Pattern
- 4- Student applies for loop correctly
- 5- assertions are implemented

## hoverCategories Feature

one scenario is required

### Prepare your files:

your feature file will be:

src >> main >> resources >> features >> F05\_hoverCategories.feature (Remember to add @smoke)

your step definition class will be:

src >> test >> java >> org.example >> stepDefs >> D05\_hoverCategoriesStepDef

your class to apply pom design pattern in your project will be:

src >> test >> java >> org.example >> pages >> P03\_homePage

### What you need to do?

In this test scenario you will use Actions class in Selenium framework to hover on one of main categories then click on sub category

### Scenario steps:

1- in Home page, there are 3 main categories contains sub-categories

[Computers, Electronics, Apparel]

2- you need to select random one of the three main categories

3- you should hover on the selected category

Note: there's a difference between click and hover command

**How to do Hover action?** you could get help from this project

<https://github.com/KhaledAMRS/SeleniumCommands>

4- after hovering, you need to select random one of the three sub categories like [Desktops, Notebooks, Software]

4.1- get the text of this sub-category

4.2- click on it

5- after opening sub-category page, you need to get text of the page title

div[class="page-title"] h1

6- Assert that the sub-category title is (equal or contains) the one you get it while selecting random sub-category

Note: you are supposed to use below functions

toLowerCase().trim(); // this will change "Desktops " to "desktops"

## How to automate this test case in advanced method

Note: it's not mandatory to do the advanced method in the project, it's just to learn something new in Selenium course

1- Select any random category whether it contains sub category or not

2- do if condition

```
if (selected category contains sub-category)
{
    click on random sub-category then assert the opened page contains sub-category name
}
else if (selected category doesn't contains sub-category)
{
    click on the main category itself then assert the opened page contains main category name
}
```

Note: before doing if condition you supposed to reduce implicitlyWait to 2 seconds

then after the if condition return implicitlyWait time again

Try to figure out why it's recommended to do something like this

## Reviewers will check the following

- 1- Student selects the correct Keywords in feature file
- 2- Hover action is being used in the code
- 3- toLowerCase() & trim() are used in the code
- 4- POM Design pattern is applied in step definition class correctly
- 5- Student is doing assertion correctly

## homeSliders Feature

2 scenarios are required

### Prepare your files:

your feature file will be:

src >> main >> resources >> features >> F06\_homeSliders.feature (Remember to add @smoke)

your step definition class will be:

src >> test >> java >> org.example >> stepDefs >> D06\_homeSlidersStepDef

your class to apply pom design pattern in your project will be:

src >> test >> java >> org.example >> pages >> P03\_homePage

### What do you need to test in this feature?

you will find two sliders when you open home page <https://demo.nopcommerce.com/>

First slider is Nokia Lumia 1020

Second slider is iPhone

you need to automate two scenarios

Scenario 1: first slider is clickable on home page

It's expected when click on first slider to direct user to this url <https://demo.nopcommerce.com/nokia-lumia-1020>

but the actual is that the url will keep on <https://demo.nopcommerce.com/>

so we could consider this is a bug and automation test scenario should be failed

Scenario 2: second slider is clickable on home page

It's expected when click on second slider to direct user to this url <https://demo.nopcommerce.com/iphone-6>

but the actual is that the url will keep on <https://demo.nopcommerce.com/>

so we could consider this is a bug and automation test scenario should be failed

Note: It's better to use explicit wait until the url contains the expected result

because sometimes the driver get the url before the new page is completely loading with the new url

So it's preferred to give your page the time needed to load and the new url is shown

**Reviewers will check the following**

- 1- Student selects the correct Keywords in feature file
- 2- POM Design pattern is applied in step definition class correctly
- 3- Student is doing assertion correctly

## **followUs Feature**

4 scenarios are required

### **Prepare your files:**

your feature file will be:

src >> main >> resources >> features >> F07\_followUs.feature (Remember to add @smoke)

your step definition class will be:

src >> test >> java >> org.example >> stepDefs >> D07\_followUsStepDef

your class to apply pom design pattern in your project will be:

src >> test >> java >> org.example >> pages >> P03\_homePage

### **What do you need to test in this feature?**

- go to <https://demo.nopcommerce.com/>
- you will find "Follow us" links at the end of the page
- you need to create scenario for each button to make sure it works properly

Scenario 1: user opens facebook link

Scenario 2: user opens twitter link

Scenario 3: user opens rss link

Scenario 4: user opens youtube link

Note: Scenario 3 will failed because the link doesn't open a valid url

actual result is <https://demo.nopcommerce.com/news/rss/1>

however expected result should be <https://demo.nopcommerce.com/new-online-store-is-open>

### **What you will learn?**

you will learn How to handle multiple windows in Selenium using `getWindowHandles()` method

for example if you have (tab 0 , tab 1)

you will learn how to switch between the two tabs and how to close tab 1 and get back to tab 0 and so on

you could get help from this project

<https://github.com/KhaledAMRS/SeleniumCommands>

## Feature File:

src >> main >> resources >> features >> F07\_followUs.feature

@smoke

Feature: F07\_followUs | users could open followUs links

Scenario: user opens facebook link

Step 1 user opens facebook link

Step 2 "https://www.facebook.com/nopCommerce" is opened in new tab

Scenario: user opens twitter link

Step 1 user opens twitter link

Step 2 "https://twitter.com/nopCommerce" is opened in new tab

Scenario: user opens rss link

Step 1 user opens rss link

Step 2 "https://demo.nopcommerce.com/new-online-store-is-open" is opened in new tab

Scenario: user opens youtube link

Step 1 user opens youtube link

Step 2 "https://www.youtube.com/user/nopCommerce" is opened in new tab

Replace Steps with the appropriate Keywords (Given, When, Then, And)

Let's take Scenario 1

Step 1: After opening https://demo.nopcommerce.com/ you will click on facebook icon at the end of home page

Step 2:

2.1- It's preferred to start your method by waiting around 2 seconds

Why?

to give opportunity to the driver to open the second tab after click on facebook icon

Now you have 2 tabs

tab 0 >> https://demo.nopcommerce.com/

tab 1 >> https://www.facebook.com/nopCommerce



2.3- you need to switch to tab 1 which contains this url <https://www.facebook.com/nopCommerce>

2.4- use hard assert to verify that current url is equal to <https://www.facebook.com/nopCommerce>

Note: the expected result in this step will come from feature file (passing parameters)

2.5- Optional step: you could close your current tab and get back to tab 0

and it's not a problem if you didn't do this step because the whole driver will quit and all tabs will be closed

- You will implement Scenario 2, 3, 4 the same way

- You could use the same method to implement step 2 for all scenarios by passing the expected url for each scenario from feature file

- Don't forget that scenario 3 will be failed because it will not open the link in new tab and your expected result should be <https://demo.nopcommerce.com/new-online-store-is-open> however the actual result is <https://demo.nopcommerce.com/news/rss/1>

### **Remember:**

The difference between `driver.close()` not `driver.quit()`

if you want to close only one tab without closing the whole browser >> you should use `driver.close()`

if you want to close all tabs and the whole browser >> you should use `driver.quit()`

### **Reviewers will check the following**

1- You selected the correct Keywords in your feature file

2- You applied the code for multi window handling correctly

3- You already could switch between tab 1 & tab 2 successfully

4- POM Design pattern is applied in step definition class correctly

5- Student is doing assertion correctly

## Wishlist Feature

2 scenarios are required

### Prepare your files:

your feature file will be:

src >> main >> resources >> features >> F08\_Wishlist.feature (Remember to add @smoke)

your step definition class will be:

src >> test >> java >> org.example >> stepDefs >> D08\_WishlistStepDef

your class to apply pom design pattern in your project will be:

src >> test >> java >> org.example >> pages >> P03\_homePage

### Before coding you need to understand what you will test exactly

#### Scenario 1

- go to <https://demo.nopcommerce.com/>
  - you will find 4 products in the middle of the home page [Build your own computer, Apple MacBook Pro 13-inch, HTC One M8 Android L 5.0 Lollipop, \$25 Virtual Gift Card]
  - if you click on wishlist button ♥ on this product "HTC One M8 Android L 5.0 Lollipop"
- you will see success message "The product has been added to your wishlist" with green background color
- Use Soft assertion to verify the following
    - success message is displayed
    - background color is green

Note: if you choose to verify Hex value then you will have to convert the color from RGBA to Hex

## Scenario 2

- go to <https://demo.nopcommerce.com/>

- you click on wishlist button ♥ on same product "HTC One M8 Android L 5.0 Lollipop"

- wait until this success message with green color to disappear then click on "Wishlist" Tab on the top of the page (beside "Register", "Log in" tabs)

Note: there's easier ways to handle success message like click on x button without having to wait but we will choose this way to use explicit wait

So you should use explicit wait in this step to wait until success message becomes invisible after that click on "Wishlist" tab

- you should get Qty value and verify it's bigger than 0

Note: You need to decide whether you will choose getText or getAttribute or getCssValue

## Reviewers will check the following

- 1- You selected the correct Keywords in your feature file
- 2- How you will get the background color and assert green color
- 3- You applied explicit wait in your code
- 4- which command you will use to get Qty value
- 5- How you will assert Qty is bigger than zero
- 6- POM Design pattern is applied in step definition class correctly