**Source Code:**

**package** com.qa.sportshoes.base;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.chrome.ChromeDriver;

**public** **class** TestBase {

**public** **static** WebDriver *driver*;

**public** **static** **void** openBrowser()

{

*driver* = **new** ChromeDriver();

*driver*.manage().window().maximize();

*driver*.manage().deleteAllCookies();

*driver*.get("http://localhost:9010/");

}

**public** **void** closebrowser()

{

*driver*.close();

}

}

**package** com.qa.sportshoes.Pages;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.support.FindBy;

**import** org.openqa.selenium.support.PageFactory;

**import** com.qa.sportshoes.base.TestBase;

**public** **class** HomePage **extends** TestBase {

// driver.findElement(localtor).methods

// @FindBy(loacatorname="value")

  // WebElement name;

@FindBy(linkText="New User? Register Here")

WebElement registerlink;

**public** HomePage(WebDriver driver)

{

PageFactory.*initElements*(driver, **this**);

}

// action methods

**public** **void** getURL\_page()

{

String URL = *driver*.getCurrentUrl();

System.***out***.println(URL);

}

**public** **void** Click\_registerlink()

{

registerlink.click();

}

}

**package** com.qa.sportyshoes.Tests;

**import** org.testng.Assert;

**import** org.testng.annotations.Test;

**import** org.testng.asserts.Assertion;

**import** com.qa.sportshoes.Pages.HomePage;

**import** com.qa.sportshoes.base.TestBase;

**public** **class** HomePageTest **extends** TestBase {

HomePage hp;

@Test(priority='1')

**public** **void** start\_browser()

{

*openBrowser*();

hp = **new** HomePage(*driver*);

}

@Test(priority='2')

**public** **void** test\_getURL\_method()

{

hp.getURL\_page();

}

@Test(priority='2')

**public** **void** test\_registerlink\_method()

{

hp.Click\_registerlink();

String expectedURL = "http://localhost:9010/register";

String RegisterPageURL = *driver*.getCurrentUrl();

Assert.*assertEquals*(RegisterPageURL, expectedURL);

}

}

RegisterPage Classes:

**package** com.qa.sportshoes.Pages;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.support.FindBy;

**import** org.openqa.selenium.support.PageFactory;

**import** org.testng.Assert;

**import** com.qa.sportshoes.base.TestBase;

**public** **class** RegisterPage **extends** TestBase {

@FindBy(xpath="//\*[@id='name']")

WebElement registerName;

@FindBy(xpath="//input[@id='email']")

WebElement registerEmail;

@FindBy(xpath="//input[@id='password']")

WebElement registerPassword;

@FindBy(xpath="//\*[@type='submit']")

WebElement registerBtn;

**public** RegisterPage(WebDriver driver)

{

PageFactory.*initElements*(driver, **this**);

}

**public** **void** register\_user()

{

registerName.sendKeys("Arya");

registerEmail.sendKeys("arya@gmail.com");

registerPassword.sendKeys("arya@123");

registerBtn.click();

}

**public** **void** validate\_url()

{

String expectedURL = "http://localhost:9010/register-user";

String RegisterPageURL = *driver*.getCurrentUrl();

Assert.*assertEquals*(RegisterPageURL, expectedURL);

}

}

package com.qa.sportyshoes.Tests;

import org.testng.annotations.BeforeClass;

import org.testng.annotations.Test;

import com.qa.sportshoes.Pages.HomePage;

import com.qa.sportshoes.Pages.RegisterPage;

import com.qa.sportshoes.base.TestBase;

public class RegisterPageTest extends TestBase{

HomePage hp;

RegisterPage rp;

@BeforeClass

public void OpenBrowser()

{

openBrowser();

hp = new HomePage(driver);

rp = new RegisterPage(driver);

}

@Test(priority='1')

public void test\_click\_registerLink() throws InterruptedException

{

Thread.sleep(1500);

hp.Click\_registerlink();

}

@Test(priority='2')

public void test\_register\_user()

{

rp.register\_user();

}

@Test(priority='3')

public void test\_newUser\_url()

{

rp.validate\_url();

}

}

LoginPage:

**package** com.qa.sportshoes.Pages;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.support.FindBy;

**import** org.openqa.selenium.support.PageFactory;

**import** org.testng.Assert;

**import** com.qa.sportshoes.base.TestBase;

**public** **class** LoginPage **extends** TestBase {

@FindBy(xpath="//\*[@id='email']")

WebElement loginEmail;

@FindBy(xpath="//\*[@id='password']")

WebElement LoginPassword;

@FindBy(xpath="//\*[@type='submit']")

WebElement LoginBtn;

**public** LoginPage(WebDriver driver)

{

PageFactory.*initElements*(driver, **this**);

}

**public** **void** user\_login()

{

loginEmail.sendKeys("arya.gmail.com");

LoginPassword.sendKeys("arya@123");

LoginBtn.click();

}

**public** **void** validate\_loginPage\_url()

{

String expectedURL = "http://localhost:9010/login";

String RegisterPageURL = *driver*.getCurrentUrl();

Assert.*assertEquals*(RegisterPageURL, expectedURL);

}

}

**package** com.qa.sportyshoes.Tests;

**import** org.testng.Assert;

**import** org.testng.annotations.Test;

**import** com.qa.sportshoes.Pages.LoginPage;

**import** com.qa.sportshoes.base.TestBase;

**public** **class** LoginPageTest **extends** TestBase {

LoginPage lp;

@Test(priority='1')

**public** **void** start\_browser()

{

*openBrowser*();

lp = **new** LoginPage(*driver*);

}

**public** **void** test\_user\_login() **throws** InterruptedException

{

Thread.*sleep*(1000);

lp.user\_login();

}

**public** **void** test\_validate\_loginPage\_url()

{

lp.validate\_loginPage\_url();

}

}

Products Page

**package** com.qa.sportshoes.Pages;

**import** org.openqa.selenium.JavascriptExecutor;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.support.FindBy;

**import** org.openqa.selenium.support.PageFactory;

**public** **class** ProductsPage {

@FindBy(xpath="//\*[@id='cart101']")

WebElement addtocartBTN;

@FindBy(linkText="Home")

WebElement HomeBTN;

@FindBy(linkText="Cart")

WebElement CartBTN;

@FindBy(xpath="//\*[@id='place-order']")

WebElement placeOrderBTN;

@FindBy(linkText="Orders")

WebElement OrdersBTN;

@FindBy(linkText="Logout")

WebElement logoutBTN;

JavascriptExecutor executor;

**public** ProductsPage(WebDriver driver)

{

PageFactory.*initElements*(driver, **this**);

executor = (JavascriptExecutor) driver;

}

**public** **void** click\_addtoCart()

{

executor.executeScript("arguments[0].click();", addtocartBTN);

}

**public** **void** click\_homebtn()

{

HomeBTN.click();

}

**public** **void** click\_cartbtn()

{

CartBTN.click();

}

**public** **void** click\_placeorder()

{

executor.executeScript("arguments[0].click();", placeOrderBTN);

}

**public** **void** click\_Ordersbtn()

{

OrdersBTN.click();

}

**public** **void** click\_Logoutbtn()

{

logoutBTN.click();

}

}

**package** com.qa.sportyshoes.Tests;

**import** org.testng.annotations.BeforeClass;

**import** org.testng.annotations.Test;

**import** com.qa.sportshoes.Pages.LoginPage;

**import** com.qa.sportshoes.Pages.ProductsPage;

**import** com.qa.sportshoes.base.TestBase;

**public** **class** ProductsTest **extends** TestBase {

LoginPage lp;

ProductsPage pp;

@BeforeClass

**public** **void** start\_browser()

{

*openBrowser*();

lp = **new** LoginPage(*driver*);

pp = **new** ProductsPage(*driver*);

}

@Test(priority='1')

**public** **void** test\_user\_login() **throws** InterruptedException

{

Thread.*sleep*(1000);

lp.user\_login();

}

@Test(priority='2')

**public** **void** test\_product\_addtoCart() **throws** InterruptedException

{

Thread.*sleep*(1000);

pp.click\_addtoCart();

}

@Test(priority='3')

**public** **void** test\_HomeBTN() **throws** InterruptedException

{

Thread.*sleep*(1000);

pp.click\_homebtn();

}

@Test(priority='4')

**public** **void** test\_CartBTN() **throws** InterruptedException

{

Thread.*sleep*(1000);

pp.click\_cartbtn();

}

@Test(priority='5')

**public** **void** test\_placeorderBTN() **throws** InterruptedException

{

Thread.*sleep*(1000);

pp.click\_placeorder();

}

@Test(priority='6')

**public** **void** test\_orders() **throws** InterruptedException

{

Thread.*sleep*(1000);

pp.click\_homebtn();

pp.click\_Ordersbtn();

}

@Test(priority='7')

**public** **void** test\_logout() **throws** InterruptedException

{

Thread.*sleep*(1000);

pp.click\_Logoutbtn();

}

}

Feature file:

Feature: APiTesting for sportShoe application

Scenario: Retrieve the list of all products in the store

Given User sends a get request to get product details

Scenario: Retrieve the list of all registered users

Given User sends get request to list user details

Scenario: Add the product

When User gives new product details, add the product

Scenario: Delete the Product

When User gives product id, delete the product

Scenario: Update Exisitng Product

When User gives product id and update data, update the product

Go to steps package create a java class and add the reast assured code for each feature step

**package** steps;

**import** org.hamcrest.Matchers;

**import** io.cucumber.java.en.Given;

**import** io.cucumber.java.en.When;

**import** io.restassured.RestAssured;

**public** **class** ApiTesting {

@Given("User sends a get request to get product details")

**public** **void** user\_sends\_a\_get\_request\_to\_get\_product\_details() {

RestAssured.*given*()

.baseUri("http://localhost:9010")

.basePath("/get-shoes")

.when().get()

.then().statusCode(200)

.log().body();

}

@Given("User sends get request to list user details")

**public** **void** user\_sends\_get\_request\_to\_list\_user\_details() {

RestAssured.*given*()

.baseUri("http://localhost:9010")

.basePath("/get-users")

.when().get()

.then().statusCode(200)

.log().body();

}

@When("User gives new product details, add the product")

**public** **void** user\_gives\_new\_product\_details\_add\_the\_product() {

RestAssured.*given*()

.baseUri("http://localhost:9010")

.basePath("/add-shoe")

.queryParams("id","1003")

.queryParam("image", "img.png")

.queryParam("name", "Addidas")

.queryParam("category", "Running")

.queryParam("sizes", "9")

.queryParam("price", "1000")

.when().post()

.then().body("shoe", Matchers.*hasEntry*("id", 1003));

}

@When("User gives product id, delete the product")

**public** **void** user\_gives\_product\_id\_delete\_the\_product() {

RestAssured.*given*()

.baseUri("http://localhost:9010")

.basePath("/delete-shoe")

.queryParam("id", "1003")

.when().delete()

.then().log().all();

}

@When("User gives product id and update data, update the product")

**public** **void** user\_gives\_product\_id\_and\_update\_data\_update\_the\_product() {

RestAssured.*given*()

.baseUri("http://localhost:9010")

.basePath("/update-shoe")

.queryParams("id","101")

.queryParam("image", "img2.png")

.queryParam("name", "Sketchers")

.queryParam("category", "Walking")

.queryParam("sizes", "9")

.queryParam("price", "5000")

.when().put()

.then()

.body("shoe", Matchers.*hasEntry*("name", "Sketchers"));

}

}