

## SourceCode

### Capstone Project: Create a Testing Framework for Sporty Shoes Website

#### Selenium WebDriver with TestNG Framework

##### TestBase in com.qa.sportshoes.base package

```
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();
    }
}
```

---

##### HomePage in com.qa.sportshoes.Pages package

```
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(locator).methods

    // @FindBy(locatorname="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();
        }
    }
}

```

=====

## HomePage in com.qa.sportyshoes.Tests package

```

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 in com.qa.sportshoes.Pages package

```

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);
    }
}

```

```
}
```

---

### RegisterPageTest in com.qa.sportyshoes.Tests package

```
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 in com.qa.sportshoes.Pages package

```
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);
    }

}

```

---



---

### LoginPageTest com.qa.sportyshoes.Tests package

```

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();
        }
    }
}

```

=====

### ProductsPage class in com.qa.sportshoes.Pages package

```

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();
    }
}

```

=====

### ProductsPage class in com.qa.sportyshoes.Tests package

```

package com.qa.sportyshoes.Tests;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.Test;
import com.qa.sportyshoes.Pages.LoginPage;
import com.qa.sportyshoes.Pages.ProductsPage;
import com.qa.sportyshoes.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();
    }
}

```

---

## Cucumber wit Rest Assured



**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 Existing Product

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

## Apitesting class in steps package

```
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()
            .baseUrl("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()
```

```

        .baseUrl("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()

        .baseUrl("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()

        .baseUrl("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()

        .baseUrl("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"));

}
}

```

---

### Add the below dependencies in the pom.xml

```

<dependency>
    <groupId>org.seleniumhq.selenium</groupId>
    <artifactId>selenium-java</artifactId>
    <version>4.11.0</version>
</dependency>
<!--
https://mvnrepository.com/artifact/io.github.bonigarcia/webdrivermanager -->
<dependency>
    <groupId>io.github.bonigarcia</groupId>
    <artifactId>webdrivermanager</artifactId>
    <version>5.4.1</version>
</dependency>
<!-- https://mvnrepository.com/artifact/org.testng/testng -->
<dependency>
    <groupId>org.testng</groupId>
    <artifactId>testng</artifactId>
    <version>7.7.1</version>
    <scope>test</scope>
</dependency>

<dependency>
    <groupId>org.apache.logging.log4j</groupId>
    <artifactId>log4j-core</artifactId>

```

```

    <version>2.14.1</version>
</dependency>
    <dependency>
        <groupId>junit</groupId>
        <artifactId>junit</artifactId>
        <version>4.11</version>
        <scope>test</scope>
    </dependency>

<!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-java -->
<dependency>
    <groupId>io.cucumber</groupId>
    <artifactId>cucumber-java</artifactId>
    <version>7.10.1</version>
</dependency>
<!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-java -->
<dependency>
    <groupId>io.cucumber</groupId>
    <artifactId>cucumber-junit</artifactId>
    <version>7.10.1</version>
    <scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-java -->
<dependency>
    <groupId>io.cucumber</groupId>
    <artifactId>cucumber-core</artifactId>
    <version>7.10.1</version>
</dependency>
<!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured -->
<dependency>
    <groupId>io.rest-assured</groupId>
    <artifactId>rest-assured</artifactId>
    <version>5.3.0</version>
    <scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured-common -->
-->
<dependency>
    <groupId>io.rest-assured</groupId>
    <artifactId>rest-assured-common</artifactId>
    <version>5.3.0</version>
</dependency>
<!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured-all -->
>
<dependency>
    <groupId>io.rest-assured</groupId>
    <artifactId>rest-assured-all</artifactId>
    <version>5.3.0</version>
    <scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/io.rest-assured/json-path -->
<dependency>
    <groupId>io.rest-assured</groupId>
    <artifactId>json-path</artifactId>
    <version>5.3.0</version>
    <scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/org.json/json -->
<dependency>
    <groupId>org.json</groupId>
    <artifactId>json</artifactId>

```

```
    <version>20180813</version>
  </dependency>
  <!-- https://mvnrepository.com/artifact/org.hamcrest/hamcrest -->
  <dependency>
    <groupId>org.hamcrest</groupId>
    <artifactId>hamcrest</artifactId>
    <version>2.2</version>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>com.fasterxml.jackson.core</groupId>
    <artifactId>jackson-databind</artifactId>
    <version>2.15.2</version>
  </dependency>
```